HANS RAJ MAHILA MAHA VIDYALAYA

MAHATMA HANS RAJ MARG, JALANDHAR (PUNJAB) INDIA

Program Outcomes (POs)

and

Course Outcomes (COs)

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HANS RAJ MAHILA MAHA VIDYALAYA

MAHATMA HANS RAJ MARG, JALANDHAR (PUNJAB) INDIA

FACULTY OF

ARTS AND LANGUAGES

Program Outcomes (POs)

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Post Graduate Department of English
Name of Program: MA in English
Program Outcomes

PO 1: General Proficiency-The Masters of Arts Program provides the candidates with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, or public administration.

PO 2: Research aptitude- The students will acquire knowledge and understanding in their specific field of study as well as into current research and development work.

PO 3: Complex problem handling-They will be able to demonstrate the ability to identify issues critically and to plan the assigned tasks accordingly.

PO 4: Lifelong learning-The Program provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 5: Social interaction-The Program (including English, Punjabi, Hindi and Political Science) combines theoretical teaching with logical tools and theories, through group work, seminars and workshops.

Program Specific Outcomes

PSO 1: To inculcate a proficiency in English Language

PSO 2:To understand the nuances and techniques of usage of English language in formal and informal expression in our life.

PSO 3:To have a critical understanding of the society from the literature- diachronically and synchronically, in the light of various world theories of sociology, psychology, economy.

PSO 4: To develop a critical perception of the world thoughts and theories through literature

PSO 5:To apprise students of a class ridden society we are a part of, build values for global peace, and create a bend towards an equalitarian society or gender neutralization.

PSO 6: To ignite in them a love for literature and prepare them for extensive study

Course Outcomes

Semester-I

Paper-I: Poetry-I Renaissance to Romantic

CO 1: To acquaint the students with the most significant English poets and their poetry.

CO 2: To acquaint students with major trends in English literature from the times of Renaissance to Romanticism through a detailed study of poetry of that time.

CO 3: Enable students to trace the evolution of various poetic forms.

CO 4: To train the students in the close reading of poems in the contexts of literary convention and history.

Paper-II: Renaissance Drama

CO 1: Students will get familiarized with the Renaissance Age, its significance and its impact on the literary trends of the age.

CO 2: Students will understand and appreciate the evolving of the English Drama from religious domain to the creative human domain i.e. shift from Theocentric to Homocentric approach.

CO 3: There will be inculcated an understanding of the universality and timelessness of human aspirations and efforts.

CO 4: Students will learn to read drama in the light of the psychological theories like Oedipus complex.

CO 5: Students will get to know the theory of Humors prevalent in the ancient Ages.

CO 6: They will get a thorough understanding of Drama as an Art through their reading of Aristotle‘s Poetics.

Paper-III: English Novel (up to 19th Century)

CO 1: Students will understand the Impact of industrialization strongly felt in 'Hard times' by Dickens.

CO 2: They will study of emergence of women writers and understand their standpoint on the place of women in society.

CO 3: Inculcating a comprehension of the concept of Realism as used in the Victorian era in the students.
CO 4: Developing an understanding of the emerging feminism and studying the filial relationships shadowed with strong human passion of violence.

Paper-IV: Phonetics and Spoken English

CO 1: To introduce students with the world English-es (i.e. varieties of English) at the phonological level.
CO 2: Making students Understand the standard version of spoken English, i.e. R.P.
CO 3: Introducing students with all the 44 sounds (i.e. phonemes) of English.
CO 4: Making students understand different features of connected English speech.
CO 5: Introduce the grammatical, semantic, and emotional importance of the rise and fall (i.e. intonation patterns) in English speech to the students.

Paper-V: Western Literary History–I

CO 1: Students will be able to analyse literary texts in light of their historical and intellectual background.
CO 2: Students will become familiar with important literary figures and canonical works of historical period i.e. studied.
CO 3: Students will be able to analyse literary texts either singly or in relation to other texts, contextualize them in the light of the period in which they were written.
CO 4: Students will get to know about the journey of English as literature and as a language from past to present.
CO 5: They will be expected to know how to read and interpret some key texts.
CO 6: Students will gain knowledge of different literary movements.
CO 7: They will get familiarized with different literary periods and eras.
CO 8: An in-depth knowledge of different literary genres like drama, poetry and fiction of various ages will come to students.
CO 9: Students will get to know various religious, geographical, historical and personal factors that influenced English literature and its writers in the past.

Semester-II

Paper-VI: Poetry-II (Victorian & Modern)

CO 1: To familiarize students with English Poetry starting from Victorian age and moving towards the modern period.
CO 2: To acquaint students with major trends in English literature from the times of Victorian age to modern times through a detailed study of poetry of that time.
CO 3: Enable students to trace the evolution of various poetic forms
CO 4: To train the students in the close reading of poems in the contexts of literary convention and history.

Paper-VII: Modern Drama

CO 1: Comprehension of Christianity as an orthodox and fanatic religion in the Past.
CO 2: Gaining knowledge about French Kingdom and its society.
CO 3: Understanding the postmodern concept of meaninglessness of human existence conveyed through Beckett and Pinter‘s works.
CO 4: Getting acquainted with Eliot‘s platonic view of spiritual salvation and regeneration.
CO 5: Sensitization towards man‘s alienation from the society thereby depicting growing concerns for the institution of family.

Paper-VIII Modern Novel

CO 1: An understanding of modernism and the techniques like stream of consciousness as novel literary techniques.
CO 2: Comparing the chronological order in fiction-writing adopted in the 19th century with 20th century focusing on psychological impact of the ‘moment’.
CO 3: Applying the theory of Oedipus complex by Freud on the writings of D.H. Lawrence.

CO 4: Reflecting upon the shift in sensibilities, perceptions and expressions in the 20th century writings.

Paper-IX: English Grammar and Writing

CO 1: To provide an understanding of the practical, functional, and experimental nature of modern grammar.
CO 2: Understanding of the smallest meaningful units and how they form words in English.
CO 3: Comparing grammatical form and its function in different environments.
CO 4: Comparing time, tense, aspect, and mood in English.
CO 5: Introducing types of sentences and clauses, their function, and how cohesive devices are used to create long text.
CO 6: Applied grammar and composition and how the understanding of language is essential beyond grammar.

Paper-X: Western Literary History–II

CO 1: The course covers the period from World War I to the present age by which the students become acquainted with the transitions in society with time.
CO 2: Literature is universal and so the syllabus unfolds the layers of literature from all the spheres of world i.e. British, American, Continental.
CO 3: The learner imbibes the scenario and structure of a particular society and is able to relate literature with its respective era.
CO 4: The students understand the historical stance of each genre.

Semester-III

Paper-XI: Irish Literature

CO 1: Analysing, Synthesising and Integrating knowledge and practice creative thinking and expression.
CO 2: Getting acquainted with concepts and information related to Irish History and Culture clearly.
CO 3: Understanding of mythological and literary concepts.
CO 4: Helps in the construction of nation and national history through literature.

Paper-XII: General Linguistics

CO 1: Understanding of semiotics and the way various signs and symbols convey meaning.
CO 2: The study of synchronic structural linguistics of Saussure and Bloomfield.
CO 3: Understanding and knowledge of transformational-generative linguistics of Chomsky.
CO 4: Highlighting the importance of systemic functional linguistics of Halliday.
CO 5: Acquainting students with various methods of teaching (grammar-translation method, direct method, audio-lingual method) and approaches (structural and communicative approaches).

Paper-X:

CO 1: **U**nderstand various aspects of literary criticism for proper understanding and appreciation of literature.
CO 2: To acquaint students with some of the fundamental questions in literature.
CO 3: This course aims at helping the students to develop critical insight into literary productions.
CO 4: To introduce literary and critical theory as reading tools for students.

Paper-XIV: Indian Writing in English

CO 1: getting familiarised with the 20th Century Indian Writers writing in English.
CO 2: Developing a strong understanding of Indian-ness contrasted with western culture.
CO 3: Analyse the working of a patriarchal set up and understanding its fundamentals.
CO 4: Develop a critical approach by getting acquainted with Kamala Das' autobiographical strain and her voice against sexual exploitation.
CO 5: Creative thinking on the need of women empowerment appreciating her pivotal role in freedom movement and in real life.

Paper-XV: Communication Studies

CO 1: Understanding the nature of language of cinema.
CO 2: Getting acquainted with the visual mode of story-telling.
CO 3: Imbibing potential for cross culture communication.
CO 4: Gaining knowledge of the medium and models of communication.

CO 5: Improving interpersonal skills of the stakeholders.

Semester-IV

Paper-XVI: Modern Literary Theory

CO 1: Introduction of students to theories like- feminism, structuralism, orientalism etc.
CO 2: Familiarization with knowledge areas and analytical tools.
CO 3: Learning to De –construct the text to find out new meanings.
CO 4: Using ideas from text in reading and writing.

Paper-XVII: American Literature

CO1: Perceive the evolving of a great nation-America from a Puritan narrow foundation.
CO2: Trace the belief and faith in humanity which is the true foundation of Democracy.
CO3: Envision the universal philosophical vision about life, work, and humanity in the poetry of Frost.
CO4: Develop a viewpoint in the light of the Psychological study of the concept of racial prejudices, collective unconscious and understanding the relevance of human dignity in life.
CO5: Build an insight about the modern American Society and its ramifications

Paper-XVIII: Post-Colonial Literature

CO 1: To familiarize the students with theoretical concepts related to the literatures of the 'new world' - Caribbean, Asian, Canadian, Nigerian - which have long remained ignored.
CO 2: To foreground issues such as history, class, race, gender, nation, culture, marginality, diaspora consciousness.
CO 3: To enable students to primarily focus on interrogating the Western canon.
CO 4: To introduce students to recent theoretical approaches to understand post-colonial, and gain a better insight into how these issues relate to their own country's history of colonisation.

Paper-XIX: Prose and Short Stories

CO 1: Understanding the origin and development of English essay.
CO 2: Understanding a literary text in different contexts.
CO 3: Imbibing knowledge of socio political and economic conditions of the society.
CO 4: Developing an ability to write critically and creatively.

Paper-XX: Indian Literature In Translation

CO 1: Reading Japji is to reach into our inner conscience cuts through the folds of our ego so as to understand the true purpose of life.
CO 2: Tracing the relevance of Tagore's Novel in modern times for its delineation of the conflict between the forces of fanatic Nationalism and humanism.
CO 3: Understanding the rich heritage of Sanskrit drama from Kalidas Kavya and the concepts of Epic and lyric.
CO 4: Attempting to reconcile Modernity and tradition through works of Anantha Murthy which challenges the orthodoxy of Brahmanism.

Name of the program: B.A

Program Outcomes

PO 1: Effective Communication-The Program makes the students familiar with nuances and usage of language in formal and informal expressions of life.
PO 2: Effective Citizenship-The students get knowledge in fields of social sciences, performing arts, visual arts and literature and become responsible citizens of the society.
PO 3: Social Interaction-The students are acquainted with the social, political, economic, historical and psychological facades pertaining to different situations.
PO 4: Self-directed Learning-The Program gives liberty to the students to choose their area of interest

Program Specific Outcomes

PSO 1: To inculcate a proficiency in English Language
PSO 2: To understand the nuances and techniques of usage of English language in formal and informal expression in our life.

PSO 3: To have a critical understanding of the society from the literature- diachronically and synchronically, in the light of various world theories of sociology, psychology, economy.
PSO 4: To develop a critical perception of the world thoughts and theories through literature
PSO 5: To apprise students of a class ridden society we are a part of, build values for global peace, and create a bend towards an equalitarian society or gender neutralization.

B.A. (Bachelor of Arts)/ B.Com./BBA/ B.Sc. Medical/ Non-Medical/ Computer Science

Semester-I

CO 1: Understanding the content thoroughly by focussing on its theme.
CO 2: Detailed, balanced and rigorous examination of texts or spoken language and the ability to articulate interpretations to others.
CO 3: Sensitivity to the power of language and its role in creating meaning.
CO 4: Enhancing psychological ability to evaluate different cultures, their traditions, rituals, beliefs etc.
CO 5: Making the right use of tenses in creating writing material.

Semester- II

CO 1: Understanding sentence formation by arranging parts of speech.
CO 2: Analysing the sentences for compound and complex structures.
CO 3: Evaluating the text from a critical point of view keeping it open to interpretation.
CO 4: Creating writing skills through the understanding of tenses and parts of speech, and the perception of texts.

Semester- III

CO 1: Gaining knowledge of the technical aspects of language.
CO 2: The study on Global Health facilitates to relate physical health with mental health and thereby develop a healthy lifestyle.
CO 3: The section on Multiculturalism broadens their outlook and promotes reflection on cultural diversity within the community and in everyday life.
CO 4: Poetry creates the ability to evaluate the poetic images symbolically.
CO 5: Poems familiarise the students with literary poetical forms like lyric, mock-epic, ballad, sonnet, dramatic monologue etc. and enhance their cognitive skills.
CO 6: Creativity is promoted by attempting to write poems in different verse forms.

Semester- IV

CO 1: Understanding of Tenses, Voice, Modals etc. to enhance their language and grammatical skills.
CO 2: Environmental statistics enables the students to analyse the devastating role of human interference in ecology.
CO 3: The text enhances the learning of sounds of language, and develops a critical insight into the problems of second language speakers.
CO 4: Students develop an understanding of Victorian poetry and assess it through comparison with poets of other ages.
CO 5: Reading of poetry ignites questions relating to the prevalent structure and themes and motivates the students to strengthen their own writing skills.

Semester- V

CO 1: Interpreting the poems against the background of Romantic and Victorian period.
CO 2: Creating values through reflection and deep understanding of the prescribed poems.
CO 3: Analysing the concept of American dream of success and relating it with real life situations.
CO 4: Assessing the role of various characters in the play, their strengths and weaknesses.
CO 5: Developing professional and technical writing skills through resume and report writing, formal letters and official correspondence.

Semester- VI

CO 1: Reading of the plays broadens the vision of the students and helps to retrieve the concepts outlined in the texts.
CO 2: Students learn to interpret the text in different perspectives and from varied angles- historical, social, economic etc.
CO 3: They try to integrate themes elucidated in the prescribed plays into the works of other well-established writers.
CO 4: The novel 'The English Teacher' broadly teaches them to experiment with life.
CO 5: The envisioned thoughts in this novel facilitates them to create their own digital blogs, practice role playing, and even solve the mysteries of life.

Name of the Program: B.Voc.
Subject: Communication Skills in English
Program Outcomes

PO 1: Industry-Academia gap bridging- Students will be able to practically understand and apply the knowledge related to the requirements of industry.
PO 2: Professional competency-To provide a judicious mix of professional skills and suitable general education component.
PO 3: Academic flexibility- To provide flexibility to the students to serve the industry by having exit points at different levels.
PO4: National Employability- To provide an opportunity to the students to get on the job training which help them to enhance their professional skills
PO5: Vertical mobility-To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce. To provide vertical mobility to students coming out of 10+2 with vocational subjects.

Program Specifics Outcomes

PSO 1: Student learns to articulate in English in group discussions and personal interviews
PSO 2: Technical knowledge is reflected only through the proper usage of words and the learners get to learn how to make a proper framework of their ideas in words
PSO 3: The confidence level of the students increases
PSO 4: This program is helpful in their higher studies

Course Outcomes

Semester-I
Paper: Communication Skills in English

CO 1: Knowing the relevance and importance of proper communication.
CO 2: Learning about the various aspects of communication.
CO 3: Enhancing the reading and writing skills.
CO 4: Able to frame official letters, applications, office memorandum, notices etc.

Semester-II
Paper: Communication Skills in English

CO 1: Improves the listening and speaking skills of the young learners.
CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.
CO 3: Raises their confidence level.
CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of Program: B.A.

Paper: Elective English
Course Outcomes

Semester-I

CO 1: Ability to have a critical appreciation of English literature.
CO 2: Understanding of the literary devices.
CO 3: Critically analyse literature in the light of culture, psychology, and economics.
CO 4: Improvement of pronunciation, and inculcate an understanding of phonetics.

Semester-II

CO 1: Awareness about the critical appreciation of English literature.
CO 2: Understanding of literary devices.
CO 3: Critically analyse literature in the light of culture, psychology, and economics.
CO 4: Improvement of pronunciation, and inculcate an understanding of phonetics.

Semester-III

CO 1: Familiarization with the current issues of the society.
CO 2: Developing critical and analytical ability of the learners.
CO 3: Imbibing the creative world of the writers from all over the world.
CO 4: Create an empathetic viewpoint

Semester-IV

CO 1: Familiarization with the current issues of the society.
CO 2: Developing critical and analytical ability of the learners.
CO 3: Imbibing the creative world of the writers from all over the world.
CO 4: Pick the various markers- problem, emotion, solution etc. from the text and have a critical ability to analyse the text.

Semester-V

CO 1: Understanding the background of the English Literature and thus appreciating the evolving of the English drama, poetry and novel.
CO 2: Learning the art of the critical reading of English drama.
CO 3: Appreciating the cultural differences as well the universality of humanity in the literature.
CO 4: Analyse the various characters and situation in the background of the historical, cultural and psychological setups.

Semester-VI

CO 1: Understanding the modern critical movements and their impact on English literature.
CO 2: Reading the novel with a focus on the cultural depiction.
CO 3: Getting to know the historical implications of the Second World War on the state of Bengal.
CO 4: Ablity to get into psychological depths of the characters and situation and express their opinion

Class: - B.C.A./BSc IT
SUBJECT - COMMUNICATION SKILLS IN ENGLISH

Program Outcomes

PO 1: Modern tool usage-This Program inculcates the basic understanding of Computer and Computer Programming .Languages in students so that they can have complete knowledge about the system and its inner working details.
PO 2: Computer Knowledge-This Program aware the students about the high use of Computers in various fields and increasing number of Jobs in this field.
PO 3: Computing environment-This Program make the students well versed with the computing environment and the various concepts, topics and subjects related to this field.
PO 4: Design and development of solutions-This Program enables the students to have the complete understanding of various branches of Computer and Technology such as Computer Graphics, Operating Systems and Data Structures,
PO 5: Problem solving and analysis-This Program will inculcate the ability of identify, analyze and synthesize scholarly literature relating to the field of computer science and IT.

PO 6: Design of Solutions: The effectiveness of this Program is to ensure that the students understand the use of software development tools, IDEs, various software system and modern computing platforms.

Program Specifics Outcomes

PSO 1: Student learns to articulate in English in group discussions and personal interviews
PSO 2: Technical knowledge is reflected only through the proper usage of words and the learners get to learn how to make a proper framework of their ideas in words
PSO 3: The confidence level of the students increases
PSO 4: This Program is helpful in their higher studies.

Course Outcomes

Semester-I

Paper: Communication Skills in English
CO 1: To know the relevance and importance of proper communication.
CO 2: To learn about the various aspects of communication.
CO 3: Improve the reading and writing skills of the students.
CO 4: Learn how to frame official letters, applications, office memorandum, notices etc.

Semester-II

Paper: Communication Skills in English

CO 1: Improves the listening and speaking skills of the young learners.
CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.
CO 3: Raises their confidence level.
CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of the Course: BFA/BD

Subject: Communication Skills in English

PO 1: Art knowledge-The students acquire knowledge in the field of fine arts which make them sensitive and sensible enough.
PO 2: Artistic thinking-The BFA graduates are acquainted with the artistic traditions and thinking.
PO 3: Effective communication: Program familiarizes them with the nuances of fine arts which make them effective communicator through brush and colours.
PO 4: Practical learning-The Program enhances the confidence of the graduates through carefully chosen curriculum with emphasis on practical learning, activities and close interaction with teachers and fellow students.
PO 5: Human values-The Program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.
PO 6: Creative learning-The students are given an exposure to creative environment which sparks their thoughts, process and help to think of the solutions of various issues in life to make this world a better place to live.
PO 7: Modern tool usage-Use of ICT helps in providing experiential learning which deeply embeds and has long lasting impact.

Program Specifics Outcomes

PSO 1: Student learns to articulate in English in group discussions and personal interviews
PSO 2: Technical knowledge is reflected only through the proper usage of words and the learners get to learn how to make a proper framework of their ideas in words
PSO 3: The confidence level of the students increases
PSO 4: This program is helpful in their higher studies

Semester-I

Paper: Communication Skills in English

CO 1: To know the relevance and importance of proper communication.
CO 2: To learn about the various aspects of communication.
CO 3: Improve the reading and writing skills of the students.
CO 4: Learn how to frame official letters, applications, office memorandum, notices etc.

Semester-II

Paper: Communication Skills in English

CO 1: Improves the listening and speaking skills of the young learners.
CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.
CO 3: Raises their confidence level.
CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of Program: B.Sc. (Bio-Technology)

Paper: Communication Skills in English

PO 1: Critical Thinking: The Program aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.
PO 2: Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.
PO 3: Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.
PO 4: Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.
PO 5: Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
PO 6: Scientific aptitude: The Program targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.
PO 7: Self-reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Program specific outcome:-

PSO 1: Student learns to articulate in English in group discussions and personal interviews
PSO 2: Technical knowledge is reflected only through the proper usage of words and the learners get to learn how to make a proper framework of their ideas in words
PSO 3: The confidence level of the students increases
PSO 4: This Program is helpful in their higher studies

Semester-I

CO 1: To know the relevance and importance of proper communication.
CO 2: To learn about the various aspects of communication.
CO 3: Improve the reading and writing skills of the students.
CO 4: Learn how to frame official letters, applications, office memorandum, notices etc.

Semester-II

CO 1: Improves the listening and speaking skills of the young learners.
CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.
CO 3: Raises their confidence level.

CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of Program: M.Sc. FD
Program Specifics Outcomes
Subject: Communication Skills

PSO 1: Develops professional attitude in the students
PSO 2: Learns aesthetics of fashion industry
PSO 3: Advances career as a designer
PSO 4: Enhances confidence to deal with upper class customer
PSO 5: Trains to work for setting up of business (personal boutique)
PSO 6: Motivates to take up research work

Semester-I

CO 1: Enhances students'ability to be an effective speaker, listener, reader as well as writer.
CO 2: Develops expertise in the English language.
CO 3: Enhances knowledge of grammar and English language in general.
CO 4: Gets opportunity to participate in debates, Elocution and other co-curricular activities in various universities.
CO 5: Students learn to interact.
CO 6: Helps in career development.
CO 7: Students learn writing different kinds of Business letters.
CO 8: Increases vocabulary through interaction.

Semester-IV

CO 1: The knowledge and skills in English get enhanced.
CO 2: There is a remarkable improvement in the ability to express.
CO 3: Learns to apply grammar in spoken and written form of communication with accuracy.
CO 4: Participation in competitions organized by other academic institutions further enhances their confidence and gives them a platform for self-expression.
CO 5: Improves the formal writing skills and prepares them for public dealing.

PG Department of Hindi

स्नातकोत्तर हिन्दी विभाग

2019-20

Course Outcomes

बी.ए.

Sem – I

पेपर – आधुनिक कविता, व्याकरण तथा अनुवाद

Co1 छात्राओं को अनुवाद लेखन की जानकारी

Co2 छात्राओं को व्याकारणिक सिद्दांतों की जानकारी

Co3 छात्राओं को हिन्दी साहित्य का परिचय

Co4 छात्राओं को कार्यालिपी हिन्दी का बोध

Sem – II

पेपर – गद्य साहित्य : सैद्दांतिकी, व्याकरण तथा पत्रकारिता

Co1 छात्राओं को मीडिया लेखन में कौशल ज्ञान

Co2 छात्राओं को समकालीन साहित्य की जानकारी

Co3 छात्राओं को प्रशासनिक शब्दावली का बोध

Co4 गद्य साहित्य की विधाओं का सूक्ष्म ज्ञान

Sem – III

पेपर – मध्ययुगीन काव्य, इतिहास, व्याकरण तथा काव्यांग

Co1 छात्राओं को हिन्दी साहित्य के इतिहास से अवगत करवाना

Co2 मध्यकालीन हिन्दी काव्य का मुख्य अध्ययन

Co3 छात्राओं को हिन्दी व्याकरण का व्यावहारिक ज्ञान

Co4 मध्यकालीन काव्य का आलोचनात्मक अध्ययन

Sem – IV

पेपर – उपन्यास, नाटक : सैद्धांतिकी, व्याकरण तथा भक्तिकाल

Co1 छात्राओं को भक्तिकाल का समीक्षात्मक अध्ययन

Co2 गद्य की विधाओं की शास्त्रिय समीक्षा

Co3 मुंशी प्रेमचन्द के 'निर्मला' उपन्यास के माध्यम से सामाजिक समस्याओं के प्रति संवेदनशील दृष्टिकोण निर्मित करना।

Co4 छात्राओं को हिन्दी व्याकरण का व्यावहारिक ज्ञान प्रदान करना।

Sem –V

पेपर – विशिष्ट कवि एवं काव्य सिद्धान्त, कामकाजी हिन्दी तथा रीतिकाल

Co1 छात्राओ को हिन्दी साहित्य विशेषकर रीतिकाल का सुबोध

Co2 भाषा का सूक्ष्य अध्ययन

Co3 कार्यालयी हिन्दी के प्रयोग की सूझबूझ का प्रतिपादन

Co4 भारतीय संस्कृति एवं साहित्य से सम्बन्धित विशिष्ट संदर्भों की ग्रहणता।

Sem –VI

पेपर – लघु विधा – आधुनिक काल, निबन्ध लेखन तथा परिभाषिक शब्दावली

Co1 राजभाषा हिन्दी का रचनात्मक लेखन

Co2 समकालीन साहित्य का मूल्यांकन

Co3 विभिन्न गद्य विधाओं की सैद्धांतिक एवं व्यावहारिक समीक्षा यथा–रेखाचित्र, संस्मरण, पात्रावृन्त, पत्र लेखन

Co4 परिभाषिक शब्दावली का बोध व प्रयोग।

बी.ए.ऑनर्स हिन्दी

Sem –III

पेपर – आधुनिक काव्य तथा काव्य नाटक

Co1 आधुनिककालीन काव्य का आलोचनात्मक अध्ययन

Co2 नियकीय काव्य नाटक के माध्यम से समकालीन समस्याओं के प्रति सजगता

Co3 आधुनिक कविता के माध्यम से समाज का समाजशास्त्रीय एवं मनोवैज्ञानिक अध्ययन

Co4 आधुनिक कालीन कवियों का मूल्यांकन

Sem –IV

पेपर – गद्य साहित्य : निबंध, संस्मरण तथा अनुवाद

Co1 हिन्दी के प्रतिनिधि साहित्यकारों का आलोचनात्मक अध्ययन

Co2 छात्राओं को गद्य की विविध विधाओं का शास्त्रीय ज्ञान

Co3 भारतीय संस्कृति एवं परम्पराओं का साहित्य के माध्यम से निरीक्षण

Co4 हिन्दी साहित्य का सामाजिक दृष्टि से मूल्यांकन

Sem – V

पेपर – भक्ति और समकालीन काव्य

Co1 मध्यकालीन हिन्दी साहित्यकारों का आलोचनात्मक अध्ययन

Co2 हिन्दी के मध्यकालीन साहित्य के सशक्त हस्ताक्षर कवियों की युगीन प्रासंगिकता

Co3 रसखान के काव्य के माध्यम से कृष्ण काव्य का मूल्यांकन

Co4 आधुनिक काव्य के विभिन्न संदर्भों का विश्लेषण

Sem –VI

पेपर – भारतीय काव्यशास्त्र और प्रयोजनमूलक हिन्दी

Co1 भाषा के विविध पहलुओं का सूक्ष्म अध्ययन

Co2 छात्राओं को राजभाषा हिन्दी के विविध पहलुओं का ज्ञान बोध

Co3 कार्यालयी हिन्दी के विविध प्रकार्यों का आलोचनात्मक अध्ययन

Co4 काव्य के शिल्प पक्ष की शास्त्रीय आलोचना

Programme Specific Outcomes

एम.ए. (प्रोग्राम स्पेस्फिक आऊटकम)

Co1 साहित्य के इतिहास का विश्लेषण व अनुशीलन
Co2 छात्राओं में शोधात्मक प्रवृत्ति का विकास
Co3 रचनात्मक लेखन की शास्त्रीय व व्यावहारिक आलोचना के योग्य बनाना
Co4 छात्राओं को रचनात्मक कौशल का विकास
Co5 छात्राओं का पत्रकारिता व कार्यालयी हिन्दी लेखन का प्रशिक्षण देते हुए उन्हें व्यावहारिक कौशल प्रदान करना

Course Outcomes

एम.ए. Sem –I

पेपर – I आधुनिक हिन्दी काव्य (द्विवेदीयुगीन एवं छायावाद)

Co1 समकालीन साहित्य का मूल्यांकन आधुनिकालीन काव्य के द्वारा
Co2 समाज का समाजशास्त्रीय एवं मनोवैज्ञानिक मूल्यांकन
Co3 द्विवेदीयुगीन व छायावादी कवियों का आलोचनात्मक अध्ययन
Co4 मियकीय महाकाव्यों के माध्यम से भारतीय संस्कृति का विशिष्य बोध

पेपर – II हिन्दी साहित्य का इतिहास (भाग – I)

Co1 छात्राओं को हिन्दी साहित्य के इतिहास का समीक्षात्मक अध्ययन
Co2 हिन्दी साहित्य के इतिहास के विविध कालों के उद्‌भव व विकास का आलोचनात्मक अध्ययन
Co3 साहित्य की विविध विधाओं का विश्लेषण
Co4 साहित्य के सुप्रसिद्द ग्रन्थों का विवेचन और मूल्यांकन

पेपर – III भारतीय काव्यशास्त्र एवं साहित्यालोचना

Co1 छात्राओं को काव्य साम्प्रदायों का सैद्धान्तिक अध्ययन का बोध
Co2 काव्य का शैलीगत अध्ययन
Co3 आलोचनात्मक पद्धतियों का विश्लेषण
Co4 साहित्य में तत्वों का विशिष्ट अध्ययन

पेपर – IV प्रयोजनमूलक हिन्दी

Co1 कार्यालयी हिन्दी के प्रकार्यों का विस्तृत अध्ययन
Co2 छात्राओं को हिन्दी भाषा में प्रयुक्त तकनीकी एवं प्रशासनिक शब्दावली का विशेष अध्ययन
Co3 राजभाषा हिन्दी का विस्तृत विश्लेषण
Co4 कम्प्यूटर एवं इंटरनैट का व्यावहारिक ज्ञान

पेपर – V नाटक एवं रंगमंच

Co1 छात्राओं को हिन्दी रंगमंचीयता का अभिज्ञान

Co2 भारतीय नाट्य शास्त्र का समाज शास्त्रीय एवं मनोवैज्ञानिक संदर्भ

Co3 छात्राओं को हिन्दी के सुप्रसिद्ध सशक्त लेखकों व उनकी रचनाओं का अध्ययन व आलोचनात्मक विश्लेषण

Co4 रंगमंचीयता के शास्त्रीय अध्ययन के माध्यम से छात्राओं को नाटकों के प्रस्तुतिकरण के योग्य बनाना।

Sem – II

पेपर –VI - आधुनिक हिन्दी काव्य छायावादोत्तर हिन्दी काव्य

Co1 छात्राओं को आधुनिकालीन हिन्दी काव्य का विस्तृत सुबोध

Co2 भारत के सामाजिक परिदृश्य के प्रति सजगता

Co3 काव्य के माध्यम से राजनीतिक चेतनता को विकसित करना

Co4 हिन्दी के आधुनिक कवियों का आलोचनात्मक विश्लेषण

पेपर – VII हिन्दी साहित्य का इतिहास – आधुनिक काल

Co1 साहित्य की विभिन्न विधाओं का मूल्यांकन

Co2 समकालीन हिन्दी साहित्य का आलोचनात्मक विश्लेषण

Co3 समाज के सामाजिक व धार्मिक आयामों का अभिज्ञान

Co4 आधुनिक साहित्य की विशिष्टताओं का आलोचनात्मक अध्ययन

पेपर – VIII पाश्चात्य काव्यशास्त्र

Co1 पाश्चात्य साहित्य के इतिहास का सुबोध

Co2 काव्यशास्त्रीय आलोचकों का तुलनात्मक अध्ययन

Co3 काव्यशास्त्र के विभिन्न संदर्भों का सैद्धान्तिक विश्लेषण

Co4 हिन्दी आलोचना का व्यावहारिक मूल्यांकन

पेपर – IX – मीडिया लेखन

Co1 छात्राओं को मीडिया व इंटरनेट के विभिन्न संदर्भों का व्यावहारिक ज्ञान

Co2 छात्राओं के लेखन, पठन एवं समाचार निर्मित कौशल की रचनात्मकता में अभिवृद्धि

Co3 छात्राओं को हिन्दी कम्प्यूटर कौशल का व्यावहारिक ज्ञान

Co4 छात्राओं को विभिन्न दृश्य एवं श्रव्य संसाधनों का सुबोध

पेपर – X –नाटककार मोहन राकेश

Co1 नाटकों के माध्यम से समाज का मनोवैज्ञानिक व समाजशास्त्रीय तुलनात्मक अध्ययन।

Co2 आधुनिक समाज में भारतीय रंगमंच की भूमिका का विशिष्ट सुबोध

Co3 नाटकीय लेखन का अभिज्ञान

Co4 नाटकीयता का शास्त्रीय अध्ययन

Sem –III

पेपर – XI - प्राचीन एवं मध्यकालीन काव्य

Co1 छात्राओं को आदिकालीन एवं भक्तिकालीन कवियों का आलोचनात्मक अभिज्ञान
Co2 निर्गुण व सगुण काव्यधाराओं का तुलनात्मक अध्ययन
Co3 मध्यकालीन काव्य के माध्यम से हिन्दी भाषा के प्रति रचनात्मकता अभिव्यक्ति को विकसित करना
Co4 सूफी काव्यधाराओं का सूक्ष्म अध्ययन

पेपर – XII - आधुनिक गद्य साहित्य

Co1 हिन्दी साहित्य के इतिहास का विशिष्ट अभिज्ञान
Co2 आधुनिक हिन्दी गद्य विधाओं का सद्धाान्तिक अध्ययन
Co3 आधुनिक गद्य साहित्य के विविध संदर्भों का विश्लेषण
Co4 आधुनिक साहित्य के सशक्त लेखकों का आलोचनात्मक अध्ययन

पेपर – XIII - भाषा विज्ञान

Co1 छात्राओं को भाषा व उसके अवयवों का अध्ययन
Co2 भाषा विज्ञान का सैद्धान्तिक अध्ययन
Co3 भाषा के विभिन्न वैज्ञानिक संदर्भों का रचनात्मक अभिज्ञान
Co4 भाषा विज्ञान का शास्त्रीय विश्लेषण

पेपर – XIV - पत्रकारिता प्रकाशन

Co1 छात्राओं को इलैक्ट्रानिक व प्रिंट मीडिया का विस्तृत सुबोध
Co2 छात्राओं को समाचार पत्रों व पत्रिकाओं की रचनात्मकता का विस्तृत अभिज्ञान
Co3 समाचार पत्रों में संपादक/सह–संपादक की भूमिका का विस्तृत विश्लेषण
Co4 छात्राओं को प्रिंट मीडिया के व्यापक क्षेत्र का सुज्ञान
Co5 अनुवाद के महत्व का विस्तृत विश्लेषण

पेपर – V - (विकल्प – I - सूरदास)

Co1 कृष्ण काव्य परम्परा का विस्तृत विश्लेषण
Co2 भक्ति साहित्य का आलोचनात्मक अध्ययन
Co3 सूरदास के काव्य का मनोविश्लेषणात्मक अभिज्ञान
Co4 निर्गुण व सगुण काव्यधारा का द्वन्द्वात्मक अध्ययन
Co5 छात्राओं में गीतात्मक कविता के प्रति अभिरुचि का प्रतिपादन

Sem –IV

पेपर – XVI - मध्यकालीन हिन्दी काव्य

Co1 मध्यकालीन हिन्दी काव्य का आलोचनात्मक अभिज्ञान
Co2 राम एवं कृष्ण भक्ति का तुलनात्मक अध्ययन
Co3 भक्तिकालीन साहित्य की प्रासंगिकता पर विमर्श
Co4 रीतिकालीन व भक्तिकालीन विशिष्टताओं का तुलनात्मक अभिज्ञान

पेपर – XVII – आधुनिक गद्य साहित्य

Co1 छात्राओं को आधुनिक हिन्दी लेखकों एवं जीवनी का अभिज्ञान
Co2 महात्मा गांधी जी के जीवन व विचारों का अध्ययन
Co3 महान लेखकों की लेखनी के माध्यम से सामाजिक काल का ज्ञान
Co4 आधुनिक समाज की जीवन्त समस्याओं का विस्तृत ज्ञान

पेपर – XVIII – हिन्दी भाषा और देवनागरी लिपि

Co1 छात्राओं को विभिन्न भाषाओं की ऐतिहासिक जानकारी
Co2 भाषाओं का तुलनात्मक अध्ययन
Co3 हिन्दी भाषा का वैज्ञानिक ज्ञान
Co4 हिन्दी भाषा की विभिन्न बोलियों का अभिज्ञान

पेपर – XIX – राजभाषा प्रशिक्षण

Co1 कार्यालयी हिन्दी का विशिष्ट अध्ययन
Co2 छात्राओं को हिन्दी के कार्यालयी स्वरूप का विशेष ज्ञान
Co3 कार्यालयी हिन्दी के विभिन्न संवैधानिक स्वरूपों का अभिज्ञान
Co4 छात्राओं को अनुवादक की भूमिका एवं पद के प्रति विशिष्ट ज्ञान

पेपर – XX – उत्तरकाव्यधारा के सदर्भ में गुरु तेग बहादुर जी की वाणी का विशेष अध्ययन

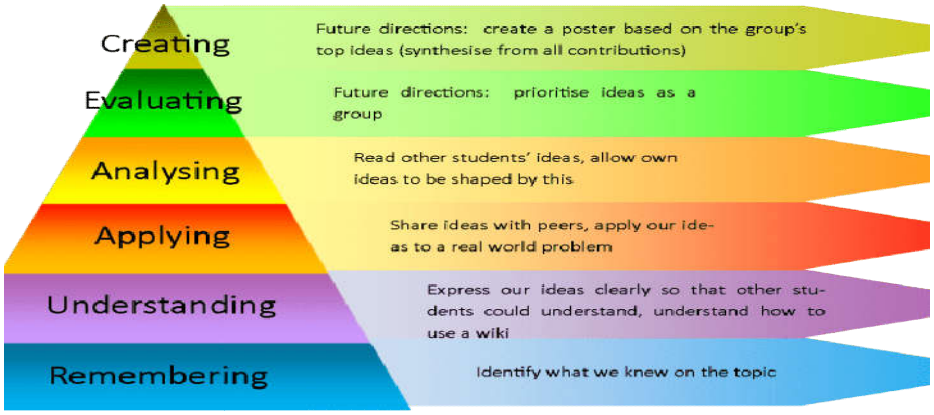
Co1 हिन्दी साहित्य के उत्तरकाव्य का विशिष्ट अध्ययन
Co2 गुरु जी की वाणी के विभिन्न पहलुओं का अभिज्ञान
Co3 छात्राओं को आत्मिक ज्ञान
Co4 गुरु जी की वाणी के माध्यम से सकारात्मक गुणों का अध्ययन

PG DEPARTMENT OF PUNJABI
HANS RAJ MAHILA MAHA VIDYALA, JALANDHAR
SESSION 2019-2020

NAME OF PROGRAMME : B.A (ELECTIVE PUNJABI)
PROGRAMME OUTCOME

PROGRAMME	OUTCOME
PO 1.	ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਪਚਾਰਕ ਅਤੇ ਅਣਉਪਚਾਰਕ ਪੱਧਰ ਤੇ ਸੁਖਮਤਾ ਦੇ ਨਾਲ ਭਾਸ਼ਾ ਦੀ ਵਰਤੋਂ ਦੇ ਸਮਰੱਥ ਬਣਾਉਦਾਂ ਹੈ।
PO.2	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਅਤੇ ਸਮਾਜ ਵਿਗਿਆਨਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ ਜਿਸਦੇ ਨਾਲ ਉਹ ਸਮਾਜ ਦੇ ਜਿੰਮੇਵਾਰ ਨਾਗਰਿਕ ਬਣਦੇ ਹਨ।
PO.3	ਵਿਦਿਆਰਥੀ ਸਮਾਜਕ, ਰਾਜਨੀਤਿਕ ਆਦਿ ਖੇਤਰਾਂ ਅਤੇ ਹਾਲਾਤਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।
PO.4	ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣਾ ਪਸੰਦੀਦਾ ਖੇਤਰ ਚੁਣਨ ਵਿਚ ਸਹਾਇਤਾ ਕਰਦਾ ਹੈ।

COURSE OUT COME WITH BLOOM TAXONOMY



NAME OF COURSE : B.A 1TH SEM

COURSE : ELECTIVE PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਕਈ ਰੂਪਾਂ ਤੋਂ ਵਕਿਫ਼ ਹੁੰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੇ ਸ਼ੁੱਧ ਉਚਾਰਣ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਆਪਣੇ ਬੋਲਚਾਲ ਦੌਰਾਨ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਨਾਵਲ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

B.A 2nd SEM

COURSE : ELECTIVE PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਹੱਲ ਕੱਢਦੇ ਹਨ ।

Co3: ਵਿਦਿਆਰਥੀ ਕੋਸ਼ਕਾਰੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਕੋਸ਼ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

B.A 3RD SEM

COURSE : ELECTIVE PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਅਤੇ ਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਹੱਲ ਕੱਢਦੇ ਹਨ ।

Co3: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਰੂਪਾਂ ਦੇ ਜ਼ਰੀਏ ਨੈਤਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਦੇ ਧਾਰਨੀ ਬਣਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

B.A 4th SEM

COURSE : ELECTIVE PUNJABI

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੀਰ ਸਭਿਆਚਾਰ ਨੂੰ ਸਮਝਦੇ ਹਨ ।

Co3: ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਬਾਰੇ ਮੁੱਲਵਾਨ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਅਤੇ ਸਾਹਿਤ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

B.A 5TH SEM

COURSE : ELECTIVE PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਗੁਰਮਤਿ ਕਾਵਿ, ਸੂਫੀ ਕਾਵਿ ,ਵਾਰ ਕਾਵਿ ਅਤੇ ਕਿੱਸਾ ਬਾਰੇ ਮੁਲਵਾਨ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਅਜੋਕੀ ਪੀੜ੍ਹੀ ਦਾ ਪਰਵਾਸ ਪ੍ਰਤੀ ਵੱਧ ਰਹੇ ਰੁਝਾਨ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਵਿਚਾਰ ਵਟਾਂਦਰਾ ਕਰਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪਰਵਾਸ ਦੀਆਂ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਅਤੇ ਸੰਭਾਵਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਨੂੰ ਪੜ੍ਹ ਕੇ ਸਮਾਜ ਵਿਚ ਔਰਤ ਦੀ ਦਸ਼ਾ ਨੂੰ ਦੇਖਦੇ ਹਨ ਅਤੇ ਉਸ ਪ੍ਰਤੀ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਨੂੰ ਉਤਸ਼ਾਹਿਤ ਹੁੰਦੇ ਹਨ।

B.A 6TH SEM

COURSE : ELECTIVE PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਬਾਰੇ ਮੁੱਲਵਾਨ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co2: ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ (9ਵੀ ਸਦੀ ਤੋਂ 16ਵੀ ਸਦੀ ਤੱਕ) ਬਾਰੇ ਸਮਝਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਆਲੋਚਨਾਤਮਕ ਨਜ਼ਰੀਆ ਅਪਣਾਉਂਦੇ ਹਨ ਅਤੇ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਮੂਲ ਸੰਕਲਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਸਿਰਜਣਾ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

NAME OF PROGRAMME : B.A/BSC/B.COM/BBA (GENRAL PUNJABI)

COURSE : GENRAL PUNJABI 1st SEM

Co1 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਿਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਮਹਾਨ ਲੇਖਕਾਂ ਦੀਆਂ ਸਵੈ ਜੀਵਨੀਆਂ ਤੋਂ ਚੰਗੀਆ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੀਰ ਸਭਿਆਚਾਰ ਅਤੇ ਮਹਾਨ ਕਲਾਕਾਰਾਂ, ਚਿੱਤਰਕਾਰਾਂ ਆਦਿ ਦੀ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖ਼ਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

2nd SEM

COURSE : GENRAL PUNJABI

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਾਕ ਸੰਰਚਨਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

Co3 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਹੱਲ ਕੱਢਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਜ਼ਿੰਦਗੀ ਦੀਆਂ ਸੱਚਾਈਆਂ ਜਿਵੇ, ਅਖਾਣ , ਮੁਹਾਵਰੇ, ਲੋਕ ਸਿਆਣਪਾ ਆਦਿ ਨੂੰ ਆਪਣੇ ਬੋਲ ਚਾਲ ਵਿਚ ਵਰਤਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਕਈ ਕਾਵਿ ਵਿਧਾਵਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਕਾਵਿ ਰਚਨਾਵਾਂ ਕਰਦੇ ਹਨ

3rd SEM

COURSE : GENRAL PUNJABI

Co2 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਿਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਨਿਬੰਧ ਸਾਹਿਤ ਰੂਪ ਤੋਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ

Co4 : ਵਿਦਿਆਰਥੀ ਇਕਾਂਗੀ ਸਾਹਿਤ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖ਼ਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

4th SEM

COURSE : GENRAL PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਜੀਵਨੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਿਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਪਛਾਣਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਸਾਹਿਤ ਰਾਹੀਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਦੇ ਨਾਲ ਨਾਲ ਪ੍ਰਬੰਧਕੀ ਢਾਚੇ ਪ੍ਰਤੀ ਵੀ ਸਮਝ ਰੱਖਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਵਿਆਕਰਨ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਬੋਲਚਾਲ ਦੌਰਾਨ ਲਾਗੂ ਕਰਦੇ ਹਨ

Co4 : ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਸਾਹਿਤ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖ਼ਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

5TH SEM

COURSE : GENRAL PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਸਮਾਜ ਵਿਚਲੀਆਂ ਘਟਨਾਵਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਹਨ ਜਿਸ ਕਰਕੇ ਉਹ ਸਾਹਿਤ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਾਜਿਕ ਘਟਨਾਵਾਂ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਸਮਾਜਿਕ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਦੇ ਆਧਾਰ ਤੇ ਉਹਨਾਂ ਦਾ ਸਧਾਰਨੀਕਰਨ ਕਰਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਨਾਵਲ ਅਤੇ ਕਹਾਣੀਆਂ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਜਿਵੇ, ਗਰੀਬੀ, ਲਿੰਗ ਅਤੇ ਜਾਤ ਅਧਾਰਿਤ ਵਿਤਕਰੇ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ ।

Co6 : ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

6TH SEM

COURSE : GENRAL PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਅੰਡੇਮਾਨ ਨਿਕੋਬਾਰ ਦੇ ਟਾਪੂਆਂ ਦੇ ਸਭਿਆਚਾਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ ਅਤੇ ਨਵੀਂ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਵੱਖੋ ਵੱਖਰੇ ਦੇਸ਼ਾਂ ਜਿਵੇ, ਸਵਿਟਜ਼ਰਲੈਂਡ, ਬੈਕਾਂਕ ਆਦਿ ਦੇ ਸਮਾਜਿਕ, ਰਾਜਨੀਤਿਕ ਅਤੇ ਆਰਥਿਕ ਗਤੀਵਿਧੀਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co3 : ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਚੋਂ ਗੁਰਬਾਣੀ ਪ੍ਰਤੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਨੈਤਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਅਪਣਾਉਂਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸ਼ੁੱਧ ਗਿਆਨ ਹਾਸਿਲ ਕਰਕੇ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਬੋਲਦੇ ਹਨ।

NAME OF PROGRAMME : UG PROFESSIONAL CLASSES (GENRAL PUNJABI)

COURSE : GENRAL PUNJABI 1st SEM

Co1 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਿਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਸੰਦਰਭ ਵਿਚ ਪਛਾਣਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਮਹਾਨ ਲੇਖਕਾਂ ਦੀਆਂ ਸਵੈ ਜੀਵਨੀਆਂ ਤੋਂ ਚੰਗੀਆ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੀਰ ਸਭਿਆਚਾਰ ਅਤੇ ਮਹਾਨ ਕਲਾਕਾਰਾਂ,ਚਿੱਤਰਕਾਰਾਂ ਆਦਿ ਦੀ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖ਼ਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਰੂਪਾਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

UG PROFESSIONAL CLASSES :2nd SEM

COURSE : GENRAL PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਿਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਸੰਦਰਭ ਵਿਚ ਪਛਾਣਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਾਕ ਸੰਰਚਨਾ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਜ਼ਿੰਦਗੀ ਦੀਆਂ ਸੱਚਾਈਆਂ ਜਿਵੇ, ਅਖਾਣ ,ਮੁਹਾਵਰੇ, ਲੋਕ ਸਿਆਣਪਾ ਆਦਿ ਨੂੰ ਆਪਣੇ ਬੋਲ ਚਾਲ ਵਿਚ ਵਰਤਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਕਈ ਕਾਵਿ ਵਿਧਾਵਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਕਾਵਿ ਰਚਨਾਵਾਂ ਕਰਦੇ ਹਨ।

NAME OF PROGRAMME :BPES 1 YEAR

COURSE : GENRAL PUNJABI

Co2 : ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਿਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਨਿਬੰਧ ਉਤੇ ਰੇਖਾ ਚਿੱਤਰਾਂ ਰਾਹੀਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੀਰ ਸਭਿਆਚਾਰ ਅਤੇ ਮਹਾਨ ਕਲਾਕਾਰਾਂ, ਚਿੱਤਰਕਾਰਾਂ ਆਦਿ ਦੀ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖ਼ਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

NAME OF PROGRAMME : BPES 2 YEAR

COURSE : GENRAL PUNJABI

Co2: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਹੱਲ ਕੱਢਦੇ ਹਨ ।

Co3: ਵਿਦਿਆਰਥੀ ਵਿਆਕਨਿਕ ਨਿਯਮਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

NAME OF PROGRAMME : BPES 3 YEAR

COURSE : GENRAL PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਰੂਪਾਂ ਜਿਵੇ, ਨਾਟਕ ਅਤੇ ਨਾਵਲ ਆਦਿ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਹੱਲ ਕੱਢਦੇ ਹਨ ।

Co3: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਰੂਪਾਂ ਦੇ ਜ਼ਰੀਏ ਨੈਤਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਦੇ ਧਾਰਨੀ ਬਣਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co 6: ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

NAME OF PROGRAMME : B.A/ BSC / B.COM / BBA 1st SEM

COURSE : BASIC PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ ਜੋੜਾਂ, ਪੈਂਤੀ ਅੱਖਰੀ ਅਤੇ ਮੁਹਾਰਨੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

2nd SEM

COURSE : BASIC PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੀਆਂ ਰੁੱਤਾਂ, ਦੇਸੀ ਮਹੀਨਿਆਂ, ਸਾਕੇਦਾਰੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

3RD SEM
COURSE : BASIC PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਲੋਕ ਸਿਆਣਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਿਆਕਰਣ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਚਿੱਠੀ ਪੱਤਰ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪਹਿਰਾ ਰਚਨਾ ਰਾਹੀਂ ਪੰਜਾਬ ਦੀਆਂ ਸਮਾਜਿਕ ਗਤੀਵਿਧੀਆਂ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ

NAME OF PROGRAMME : UG PROFESSIONAL CLASSES 1st SEM
COURSE : BASIC PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ ਜੋੜਾਂ, ਪੈਂਤੀ ਅੱਖਰੀ ਅਤੇ ਮੁਹਾਰਨੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

UG PROFESSIONAL CLASSES 2nd SEM
COURSE : BASIC PUNJABI

Co1 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

Co4 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੀਆਂ ਰੁੱਤਾਂ, ਦੇਸੀ ਮਹੀਨਿਆਂ, ਸਾਕੇਦਾਰੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

NAME OF PROGRAMME : M.A PUNJABI

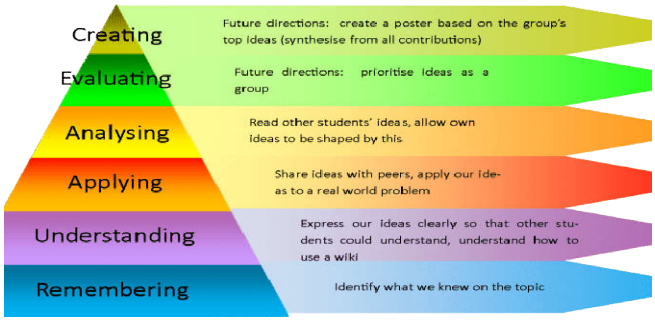
PROGRAMME OUTCOME

PROGRAMME	OUTCOME
PO 1.	ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਮਝ,ਸਧਾਰਨੀਕਰਨ,ਵਿਧੀਗਤ ਗੁਣਵਤਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ਓਤੇ ਉਦਯੋਗਿਕ, ਸਿਖਿਆ ਅਤੇ ਲੋਕ ਪ੍ਰਬੰਧਕੀ ਖੇਤਰਾਂ ਵਿਚ ਉਨੱਤੀ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ।
PO.2	ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਵਿਸ਼ੇਸ਼ ਖੇਤਰ ਦੀ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ ਅਤੇ ਆਪਣੇ ਖੇਤਰ ਵਿਚ ਖੋਜ ਤੇ ਵਿਕਾਸ ਦੇ ਕੰਮਾਂ ਪ੍ਰਤੀ ਸਮਰੱਥਾ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ ।
PO.3	ਵਿਦਿਆਰਥੀ ਅਲੋਚਨਾਤਮਕ ਢੰਗ ਨਾਲ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ ਅਤੇ ਯੋਜਨਾਬੱਧ ਢੰਗ ਨਾਲ ਨੇਪਰੇ ਚਾੜ੍ਹਦੇ ਹਨ।
PO.4	ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੂਖਮ ਪੱਧਰ ਤੇ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹਨ ਅਤੇ ਅੱਗੇ ਜਾ ਕੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੀ ਪਸੰਦ ਦਾ ਖੋਜ ਵਿਸ਼ਾ ਚੁਨਣ ਵਿਚ ਸਹਾਇਤਾ ਮਿਲਦੀ ਹੈ ।
PO.5	ਇਹ ਪ੍ਰੋਗਰਾਮ (eng, pbi, hindi, pol sci) ਸੰਯੁਕਤ ਪੱਧਰ ਤੇ ਤਾਰਕਿਕ ਸੰਦਾਂ ਸਿਧਾਂਤਾਂ ਅਤੇ ਸਮੂਹਿਕ ਕਾਰਜਾਂ ਅਤੇ ਸੈਮੀਨਾਰਾਂ ਵਰਕਸ਼ਾਪ ਆਦਿ ਦੇ ਜ਼ਰੀਏ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਿੱਧਾਂਤਕ ਸਿਖਿਆ ਦਿੰਦੇ ਹਨ।

PROGRAMME SPECIFIC OUTCOME

PROGRAMME	OUTCOME
PSO 1.	ਕਵਿਤਾ, ਵਾਰਤਕ ,ਫਿਲਾਸਫੀ ,ਸੰਗੀਤ ਆਦਿ ਦੇ ਜ਼ਰੀਏ ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਅਮੀਰ ਅਤੇ ਵੱਖਰਤਾ ਭਰਪੂਰ ਸਭਿਆਚਾਰ ਅਤੇ ਪਰੰਪਰਿਕ ਵਿਕਾਸ ਬਾਰੇ ਸਿੱਖਦੇ ਹਨ।
PSO.2	ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਮਾਜਕ ਰਾਜਨੀਤਿਕ ਅਤੇ ਧਾਰਮਿਕ ਪ੍ਰਸੰਗਾਂ ਤੋਂ ਆਲੋਚਨਾਤਮਕ ਸੋਚ ਦਾ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।
PSO.3	ਇਹ ਪ੍ਰੋਗਰਾਮ ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ ਅਤੇ ਸਭਿਆਚਾਰ ਦੀ ਉਤਪਤੀ ਅਤੇ ਵਿਕਾਸ ਤੋਂ ਜਾਨੂੰ ਕਰਵਾਉਂਦੇ ਹਨ।
PSO.4	ਭਾਸ਼ਾ ਦੇ ਤੱਤਾਂ ਮੁੱਢਲੇ ਸੰਕਲਪਾਂ, ਸਮਕਾਲੀਨ ਹਾਲਾਤ ਅਤੇ ਭਾਸ਼ਾ ਦੀ ਸੰਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ।

M.A PUNJABI COURSE OUT COME WITH BLOOM TAXONOMY



NAME OF PROGRAMME : M.A PUNJABI

SEM 1

COURSE : PAPER 1 GURMAT KAAV

Co2 : ਵਿਦਿਆਰਥੀ ਦਸ ਗੁਰੂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ ਅਤੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਗੁਰਬਾਣੀ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਧਰਮ ਪ੍ਰਤੀ ਗਿਆਨ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਗੁਰਬਾਣੀ ਸਾਹਿਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

COURSE : PAPER 2 SUFI KAAV

Co2 : ਵਿਦਿਆਰਥੀ ਸੂਫ਼ੀ ਸੰਤਾਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ ਅਤੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ ।

Co3: ਵਿਦਿਆਰਥੀ ਸੂਫ਼ੀਵਾਦ ਦੇ ਸਿੱਧਾਤਾਂ ਅਤੇ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਇਸਲਾਮ ਅਤੇ ਸੂਫ਼ੀਵਾਦ ਪ੍ਰਤੀ ਗਿਆਨ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਸੂਫ਼ੀ ਸਾਹਿਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

COURSE : PAPER 3 SAHIT SIDHANT ATE BHARTI KAAV SHASTER

Co2 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਤੇ ਕਾਵਿ ਸ਼ਾਸਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਅਤੇ ਕਾਵਿ ਸ਼ਾਸਤਰ ਦੀਆਂ ਵਿਭਿੰਨ ਇਕਾਈਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਭਾਰਤੀ ਅਤੇ ਪੱਛਮੀ ਸਾਹਿਤ ਪ੍ਰਤੀ ਗਿਆਨ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਭਾਰਤੀ ਸਾਹਿਤ ਦਾ ਆਲੋਚਨਾਤਮਕ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

COURSE : PAPER 4 LOKDHARA ATE PUNJABI LOKDHARA

Co2: ਵਿਦਿਆਰਥੀ ਲੋਕਧਾਰਾ ਦੀਆਂ ਵਿਭਿੰਨ ਇਕਾਈਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਲੋਕਧਾਰਾ ਅਤੇ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦੇ ਸੰਕਲਪਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਲੋਕਧਾਰਾ ਦਾ ਆਲੋਚਨਾਤਮਕ ਨਜ਼ਰੀਏ ਤੋਂ ਤੁਲਨਾ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6: ਵਿਦਿਆਰਥੀ ਲੋਕਧਾਰਾ ਦਾ ਗਿਆਨ ਹਾਸਿਲ ਕਰਕੇ ਲੋਕਧਾਰਾਈ ਸਾਮੱਗਰੀ ਨੂੰ ਬਣਾਉਣਾ ਸ਼ੁਰੂ ਕਰਦੇ ਹਨ।

COURSE : PAPER 5 TULNATMIK SAHIT

Co1 : ਵਿਦਿਆਰਥੀ ਤੁਲਨਾਤਮਕ ਸਾਹਿਤ ਬਾਰੇ ਨਵੀਨ ਨਜ਼ਰੀਆਂ ਅਪਣਾਉਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਤੁਲਨਾਤਮਕ ਸਾਹਿਤ ਦੀਆਂ ਵਿਭਿੰਨ ਇਕਾਈਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਤੁਲਨਾਤਮਕ ਸਾਹਿਤ ਦੇ ਸੰਕਲਪਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਭਾਰਤ ਪਾਕਿਸਤਾਨ ਵੰਡ ਦਾ ਆਲੋਚਨਾਤਮਕ ਨਜ਼ਰੀਏ ਤੋਂ ਤੁਲਨਾ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

NAME OF PROGRAMME : M.A PUNJABI

SEM 2nd

COURSE : PAPER 6 BHAGTI SAHIT

Co1 : ਵਿਦਿਆਰਥੀ ਭਗਤਾਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਭਗਤੀ ਕਾਵਿ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਧਰਮ ਪ੍ਰਤੀ ਗਿਆਨ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਭਗਤੀ ਸਾਹਿਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

COURSE : PAPER 7 MADHKALI PUNJABI KAAV

Co1 : ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਕਾਵਿ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਗੁਰੁ ਸਹਿਬਾਨ ਅਤੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਕਿੱਸਾ ਕਾਵਿ ਪ੍ਰਤੀ ਗਿਆਨ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ ਅਤੇ ਉਸ ਸਮੇਂ ਦੇ ਸੱਭਿਆਚਾਰ ਨੂੰ ਤੁਲਨਾਤਮਕ ਪੱਧਰ ਤੇ ਵਾਚਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਕਾਵਿ ਸਾਹਿਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

COURSE : PAPER 8 KHOJ ATE PUNJABI ALOCHNA

Co1 : ਵਿਦਿਆਰਥੀ ਖੋਜ ਅਤੇ ਆਲੋਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਆਲੋਚਨਾ ਅਤੇ ਖੋਜ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਖੋਜ ਅਤੇ ਆਲੋਚਨਾ ਦੇ ਸਿੱਧਾਤਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਖੋਜ ਅਤੇ ਆਲੋਚਨਾ ਦੇ ਸਿੱਧਾਂਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਖੋਜ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 9 PUNJABI SABHYACHAAR

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਸਿੱਧਾਤਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਸਿੱਧਾਂਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 10 PATARKARI ATE PUNJABI PATARKARI

Co1 : ਵਿਦਿਆਰਥੀ ਪੱਤਰਕਾਰੀ ਅਤੇ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦੇ ਸਿੱਧਾਤਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਪੱਤਰਕਾਰੀ ਦੇ ਸਿੱਧਾਤਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਰੁਗਾਰ ਦੇ ਮਾਧਿਅਮ ਨੂੰ ਅਪਣਾਉਂਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦੇ ਸਿੱਧਾਂਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

SEM 3RD

COURSE : PAPER 11 ADHUNIK PUNJABI KAVITA

Co2: ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵੀਆਂ ਦੇ ਕਾਵਿ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।
Co4: ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਸਿੱਧਾਤਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
Co5 : ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਸਿੱਧਾਂਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 12 PUNJABI NOVEL

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ ਅਤੇ ਉਸ ਉਪਰ ਪਏ ਅੰਗਰੇਜ਼ੀ ਨਾਵਲ ਦੇ ਪ੍ਰਭਾਵ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਸਿੱਧਾਤਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਸਿੱਧਾਂਤ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 13 PUNJABI BHASHA ATE BHASHA VIGYAAN

Co2: ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਸਿੱਧਾਤਾਂ ਜਿਵੇ ਸਾਸਿਊਰ ਆਦਿ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਬੋਲਚਾਲ ਵਿਚ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

CLASS : M.A PUNJABI SEM 2nd
COURSE : PAPER 14 PUNJABI SAHIT DA ITIHAAS (1850 TAK)

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।
Co4: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 15 PARVASI PUNJABI SAHIT

Co2: ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।
Co4: ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ ਅਤੇ ਪਰਵਾਸ ਦੀਆਂ ਮੁਸ਼ਕਿਲਾਂ ਦਾ ਅਨੁਭਵ ਕਰਦੇ ਹਨ ।
Co5 : ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

SEM 4TH

COURSE : PAPER 16 ADUNIK PUNJABI KAVITA

Co2: ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।
Co4: ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ ਅਤੇ ਆਧੁਨਿਕ ਕਾਵਿ ਧਾਰਾਵਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
Co5 : ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 17 PUNJABI NIKI KAHANI

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਿੱਕੀ ਕਹਾਣੀ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।
Co4: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਿੱਕੀ ਕਹਾਣੀ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ ਅਤੇ ਸਮਾਜਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ੂੰ ਪਰਖਦੇ ਹਨ ।
Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਿੱਕੀ ਕਹਾਣੀ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਿੱਕੀ ਕਹਾਣੀ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 18 PUNJABI BHASHA ATE BHASHA VIGYAAN 2

Co2: ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਸਿੱਧਾਤਾਂ ਜਿਵੇ ਵਾਕ ਬਣਤਰ, ਉਪਵਾਕ ਭਾਸ਼ਾਈ ਵੰਨਗੀਆਂ ਆਦਿ ਨੂੰ ਸਮਝਦੇ ਹਨ।

Co3: ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਆਰਥੋਗ੍ਰਾਫੀ ਨਿਯਮਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
Co6 : ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 19 PUNJABI NATAK

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਟਕ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ ਅਤੇ ਰੰਗਮੰਚ ਦੀਆਂ ਪਰਤਾਂ ਨੂੰ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਟਕ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ ਅਤੇ ਸਮਾਜਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਪਰਖਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਟਕ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਾਟਕ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

COURSE : PAPER 20 PUNJABI SAHIT DA ITIHAAS (1850 TO HON TAKK)

Co2: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾ ਸਮਝਦੇ ਹਨ।

Co4: ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

Co5 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗੰਭੀਰਤਾ ਨਾਲ ਖੋਜ ਦੇ ਨਜ਼ਰੀਏ ਤੋਂ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Co6 : ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਸਿੱਧਾਤਾਂ ਨੂੰ ਅਪਣਾਉਦੇ ਹੋਏ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

DEPARTMENT OF SANSKRIT

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester- I

Paper: Kavya Evm Vyakaran

CO 1: Students will describe the glorious life history of bhakat pooran singh ji .

CO 2: Students will identify the values like compassion, selflessness, sacrifice embodied by bhakat pooran singh ji.

CO 3: Studen will be able to appraise the dedication towards the work and selfless service to humanity.

CO 4: Students will be able to reproduce vocabulary.

CO 5: Students will be able to estimate the values of good deeds in once life.

Semester-II

Paper: Kavya Evm Vyakaran Evem Anuvad

CO 1: Students will ascertain the importance bravery and boldness while facing the trials and tribulations of life.

CO 2: It inspires students and enlightens their path to success.

CO 3: Students will be able to maintain the social decorum and thus link to the notions of etiquettes and manners.

CO 4: They will get knowledge and usage of sandhi ,samas, shabdroop, dhatu roop and pronunciation of language and they are able to apply the concepts of grammar.

CO 5: Students writing skills and reading skills would be enhanced.

Semester- II

Paper: Natak Tatha Vyakaran

CO 1: Students will be able to appraise the greatness of chracters portrait in madhyamvyayog (mahabharata)

CO 2: Students will be able to incorporate Sanskaras like respect women, help the weaker section of society. They are able to analyze the situations of life.

CO 3: Encourage them to explore the writings of great and renowned sanskrit scholars and appreciate their literary genius.

CO 4: They will get the glimpses of characters portrayed in epic Mahabharata like the great life of bheem who reflects the grandeur of Indian culture.

CO 5: They will articulate sanskrit words with proper intonation and stress and able to create their own write –ups.

Semester-IV

Paper: Kavya Evm Vyakaran

CO 1: Students will be able to learn important lessons of life through short stories and able to analyze the different situations.

CO 2: They will imbibe the values which will help them to lead successful life.

CO 3: They will learn moral values in very fun filled and entertaining way and create their own perceptions regarding stories.

CO 4: They will ascertain wider usages of samas, shabdroop, avya and shabd .

CO 5: Students will be able to interpret the ideology of the great poets.

Semester-V

Paper: Neetikatha Sahitya Tatha Vyakaran

CO 1: Students will be able to observe the basic knowledge of four Vedas.

CO 2: Students will be able to comprehend the richness of this language and compute the basic sentences of Sanskrit.

CO 3: They will learn to respond and act spontaneously in a given situation and develop ability to evaluate the situation.

CO 4: Depict the ethical behavior through allegory will help them to lead better life.

CO 5: They will incorporate moral values by reading fables.

Semester-VI

Paper: Katha Sahitya Tatha Nibhandh

CO 1: Students will be able to analyze the role of a teacher in shaping the life of student.

CO 2: Students will examine the importance of a balanced life.

CO 3: Students evaluate the importance of karama yoga - a discipline of selfless action without any expectation.

CO 4: They will be able to appraise the vastness and richness of sanskrit language- a mother of all languages.

CO 5: They will get vast knowledge of sanskrit language skills followed by great writers like mahakavi kalidas , bhas ,bhavbhuti famous writers of sanskrit which will enable them to read or write in sanskrit.

Department of Home Science
Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Family Resource Management & Hygiene

CO 1: Students will acquire detail knowledge of importance of home science in daily life

CO 2: Students will be able to understand the principals of art in relation to interior decoration during planning of house.

CO 3: Students will come to know about to the pathogenic diseases, mode of transmission, causes and spread of various bacterial and viral diseases and can enlist their methods to control them.

CO 4: Students will acquire knowledge and able to analyze various methods used to maintain the hygine in daily life.

Semester-II

Paper: Family Resource Management and Physiology

CO 1: Students will be able to understand the meaning and various aspects of home management.

CO 2: Students will able to learn the structure and functioning of circulatory, digestive and reproductive system in human body.

CO 3: The students can categorize various methods acquired by the florists to for long term flower arrangement

CO 4: The students will know &learn to solve problems related with resources e.g. money and energy management.

Semester-III

Paper: Clothing Textiles–I (Theory)

CO 1: Students will be able to understand the concept of equipments and supplies in clothing market.

CO 2: Students will know about the manufacture and properties of various textile fibers

CO 3: The students will learn to record body measurements in order to develop various pattern designing.

CO4: Students will be able to understand various methods used for colouring and dying various fabrics.

Semester-IV

Paper: Clothing Textiles –II (Theory)

CO 1: Students will be able to understand principals of designs such as harmony, balance, rhythm and proportion.

CO 2: The students can summarize the various methods used to store various kinds of garments like cotton, wool, and silk.

CO 3: The students will be able to understand the concept of formation and processing of various types of the Yarn.

CO 4: The students will learn to select suitable clothes for various age groups like infants, adults, old, school going etc.

Semester-V

Paper: Foods and Nutrition & Child Development- I (Theory)

CO 1: Students will develop critical understanding of fundamentals of various food components and its role in development.

CO 2: The students can understand the role of various vitamins and minerals in various metabolic pathways.

CO 3: Students are able to know about various factors and their importance in child development

CO 4: The students are able to understand the phenomenon of Metamorphosis, motor development from infancy to late childhood.

Semester-VI

Paper: Foods and Nutrition & Child Development- II (THEORY)

CO 1: The students are able to describe various types of food adulteration used now a days and method as to check them.

CO2: Students will learn planning of balanced diet for middle income groups and their implications in daily life.

CO 3: Students will be able to define concept of balanced diet and classification of food based on five/seven food groups.

CO 4 Students will be able to understand structure and types of therapeutic diets in various health conditions.

Department of Psychology

Name of Programme: B.A. (Bachelor of Arts) Course Outcomes

Semester-I &II Paper: Basic Psychological Processes

CO 1: Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.

CO 2: Students will respect and use critical and creative thinking, skeptical inquiry and the scientific approach to solve problems related to behavior and mental processes.

CO 3: Students will understand and apply psychological principles to personal, social, and organizational issues.

CO 4: Students will be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline.

CO 5: Students will recognize, understand, and respect the complexity of sociocultural and international diversity.

Semester-III &IV

Paper: Experimental Psychology

CO 1: Students will have the opportunity to develop a deep understanding and broad knowledge of the general theoretical and scientific principles of psychology.

CO 2: Students will acquire in-depth knowledge in specialized areas of their subject.

CO 3: They will have the opportunity to acquire and demonstrate bibliographic skills to search out information appropriate to a particular topic.

CO 4: They will have experience in compiling written reviews of key topics in psychology in which they will be expected to have knowledge, depth of understanding, and a critical appreciation of the strengths and weaknesses of theoretical claims and research evidence or conceptual argument.

CO 5: They will have the opportunity to discuss in detail aspects of research or enquiry.

Semester-V &VI

Paper: Abnormal Psychology

Upon successful completion, students will have the knowledge and skills and should be able to:

CO 1: identify and describe major terms and concepts in abnormal psychology.

CO 2: describe and apply major theories of abnormal psychology.

CO 3: describe the symptomatology associated with major mental disorders and apply to case examples.

CO 4: think critically about issues and changes in psychiatric nomenclature.

CO 5: think critically about ethical, legal, cultural and contemporary topics in abnormal psychology.

CO 6: demonstrate preliminary knowledge of the main empirically based approaches available to treat or manage the conditions covered in the course.

Name of Programme: B.A. Psychology with Honours

Course Outcomes

Semester-III

Paper: History and Schools of Psychology

After completing the course, the students will be able to:

CO 1: discuss the philosophical and scientific foundations of psychology.

CO 2: critically examine problems, questions, and assumptions of various schools of thought such as functionalism, psychoanalysis, behaviourism, and Gestalt, humanistic and experimental psychology.

CO 3: compare Eastern and Western philosophical and intellectual traditions from antiquity with contemporary thought on human relationships.

CO 4: describe the philosophical implications of mind-body interaction for psychology as a science.

CO 5: develop deeper understanding and insight into the origin and contents of various school of thoughts and the ability to critically analyse.

Semester-IV

Paper: Social Psychology

After completing the course, the students will be able to:

CO 1: demonstrate in an applied context a systematic understanding of the behaviour of the individual in social interaction.

CO 2: examine critically the explanations or the occurrence of certain kinds of social behaviour.

CO 3: critically apply social psychological principles to social problems and issues.

CO 4: identify both theoretical and practical methodological issues central to social psychological research.

Semester-V

Paper: Psychological testing

CO 1: The goal of this paper is to support students in building a thorough understanding of the development and use of psychological tests. This aim includes an understanding of the application of such tests in the education, counselling, and business sectors.

CO 2: At the end of this course, students will be able to demonstrate knowledge:

- How psychological tests are developed.
- How psychological tests are evaluated.
- About the characteristics and purposes of the major psychological tests used in education, clinical and counselling practice, and business.
- About ethics and laws pertaining to the use of psychological tests.

Semester-VI

Paper: Applied Psychology

CO 1: Students will develop effective interpersonal skills to enable them to work in a variety of practical settings.

CO 2: Students will obtain the knowledge and skills necessary to apply in counseling, educational set up, health sector ,human service related organizations or in related areas.

CO 3: Students will demonstrate foundational knowledge and comprehension of applied psychology subject matter through examination or learning portfolio.

CO 5: Instill cooperative learning strategies that enable students to participate effectively in group projects and in circumstances surrounding employment.

Name of Programme: B.Voc. (Mental Health Counselling)

Program Outcomes

PO 1: Students will be able to practically understand and apply the knowledge related to the requirements of industry.

PO 2: To provide a judicious mix of professional skills and suitable general education component.

PO 3: To provide flexibility to the students to serve the industry by having exit points at different levels.

PO 4: To provide an opportunity to the students to get on the job training which help them to enhance their professional skills.

Programme Specific Outcomes

PSO 1:The graduated students acquire knowledge and understanding of the clinical mental health counselling profession as well as the basics of legal and ethical practice.

PSO 2: They will be able to apply knowledge and skills related to counselling work with diverse groups both nationally and internationally.

PSO 3: Students will demonstrate knowledge and skills related to building, maintaining and utilizing counselling relationships to address mental health issues and meet client goals.

PSO 4:It will enable students to understand the significance of research in informing counselling practice and demonstrate the ability to critically evaluate available research to inform their own counselling work.

Course Outcomes

Semester-I

Paper: Mental Health Counselling

CO 1: Students will show knowledge and understanding of the clinical mental health counselling profession as well as the basics of legal and ethical practice.

CO 2: They will acquire knowledge, awareness, and skills related to counselling work with diverse groups both nationally and internationally.

CO 3: They will be able to demonstrate knowledge and skills related to building, maintaining, and utilizing counselling relationships to address mental health issues and meet client goals.

CO 4: They will get knowledge and understanding of career development, assessment, and planning for clients.

Paper: Techniques of Appraisal for Counselling

CO 1: Students will show knowledge and understanding of psychological testing, and psychological assessment along with the purpose.

CO 2: They will have knowledge on career assessment related to interest, personality and values.

CO 3: They will understand the various aspects of career development, assessment, and planning for clients.

CO 4: They will understand the purpose and uses of a variety of tests along with the limitations of testing and assessment.

CO 5: They will become capable to understand and demonstrate competency with counselling assessments, including knowledge of types of assessments, statistical concepts, and the use of assessment tools.

CO 6: They will study the development and use of psychological tests i.e. application of tests in education and counselling.

CO 7: They will understand the legal and ethical issues in psychological testing and internship.

Paper: Approaches to Counselling

CO 1: Students will become familiar with the major counselling approaches categorized as humanistic, experiential, learning/cognitive, and psychoanalytic/psychodynamic

CO 2: They will become able to critically examine different approaches to counselling andunderstanding of theoretical frameworks.

CO 3: They will understand the link between theory and practice and will be able to arrive at their own personal orientation to counselling.

CO 4: They will be able to demonstrate knowledge of the therapist‘s role and the values by which the therapist conducts counselling.

CO 5: They will study the core premises of psychodynamic therapy such as transference, countertransference, resistance, and interpret.

Semester-II

Paper: Child Psychopathology

CO 1: Detailed understanding of disorders seen in infancy, childhood and adolescence according to the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).

CO 2: Students will gain understanding of key principles relevant to conducting psychological assessments with children /adolescents and their families for formulation, diagnosis and treatment planning.

CO 3: Knowledge of theoretical frameworks for conceptualising child development and behaviour is developed while ensuring that students understand ―normal‖ child development and the importance of taking a developmental perspective

CO 4: They will be able to describe the role of early experiences in shaping children‘s development and behaviour

CO 5: They will study possible diagnoses and differential diagnoses.

CO 6: They will learn to develop a comprehensive case formulation and treatment plan.

Paper: Counselling Applications

CO 1: Learners will develop knowledge of the core theoretical areas, major models, and basic techniques of counselling and psychology.

CO 2: Describe and demonstrate theories and methods of cognitive and personality assessment.

CO 3: They will understand the link between theory and practice and arrive at their own personal orientation to counselling

CO 4: Students will understand the philosophical underpinnings of the major counselling theories.

CO 5: They will be able to identify primary intervention techniques of the major psychological theories.

Paper: Practicing Individual Counselling Skills and Techniques

CO 1: Students develop an understanding of the historical development of the counselling profession and an applied understanding of counselling skills.

CO 2: Students'self-awareness of the values, attitudes and biases is fundamental in the development of effective counselling skills.

CO 3: Students will able to understand the process of assessment and establishing the counselling relationship.

CO 4: The counselling relationship is an important means of facilitating change and growth. Understanding of the stages of counselling provides a framework for practicing new skills. Students will learn how they can assist clients to achieve positive outcomes and increase their self-understanding.

Semester-III

Paper: Substance Abuse (Problem and Consequences)

CO 1: Students will be able identify psychosocial factors associated with alcohol and drug abuse.

CO 2: They will study physiological/medical factors associated with substance abuse.

CO 3: They will get knowledge regarding the impact of substance abuse on the community, family and individual.

CO 4: They will learn to assess and analyse the techniques used by professionals in the field of substance abuse.

CO 5: They will have understanding of medical and behavioural model of addiction.

Paper: Classification of Psychotropic Drugs and Their Treatment

CO 1: Students will learn to distinguish the actions of psychoactive drugs as they affect the body.

CO 2: They will develop deep understanding to types of drugs

CO 3: They will have knowledge to define the routes of administration, methods of ingestion, tolerance, withdrawal and interactions of these drugs with other psychoactive and non-psychoactive drugs.

CO 4: They will be able to evaluate the signs and symptoms associated with the different classifications of psychoactive chemicals.

CO 5: They will study the concepts of use, misuse, abuse, dependence, withdrawal, and overdose/toxicity.

CO 6: Learners will develop understanding of management and treatment of drug abused.

Semester-IV

Paper: HIV/AIDS Counselling

CO 1: Students will understand the basic facts of HIV and AIDS (means of transmission, types of tests, CD4 count, viral load.

CO 2: They will study the social, behavioural, gender and cultural drivers of the HIV pandemic.

CO 3: They will acquire knowledge regarding the contents of HIV pre- and HIV post-test counseling sessions.

CO 4: They study the goals of ART and how antiretroviral work.

CO 5: Learners will study the psycho-social needs and challenges of living with a chronic disease.

Semester-V

Paper: Basic psychological processes

CO 1: Students will demonstrate familiarity with the major concepts, theoretical perspective, empirical findings.

CO 2: Students will understand and apply psychological principles to personal, social and organisational issues.

CO 3: Demonstrator understanding of philosophical and scientific foundations of psychology.

CO 4: Students will exhibit philosophical implications of mind-body interaction for psychology as science.

Paper: Human Development

CO 1: Demonstrate an understanding of the biological, psychological, social and lifespan human development

CO 2: Demonstrate an understanding of how gender, ethnicity, class, historical period, and social location relate to the life course experience.

CO 3: Critically evaluate research relevant to human development as well as popular notions of human nature.
CO 4: Use the primary literature of the field to prepare a clear, organised summary of a topic.

Paper: Basic Statistics

CO 1: Students will obtain knowledge in quantitative research, including statistical procedures for analysing psychological data.
CO 2: Students will have insights into preliminary exploration of different types of data.
CO 3: Students will exhibit Knowledge of correlation, regression analysis, regression diagnostics, partial and multiple correlations.

Semester-VI

Paper: Abnormal Psychology

CO 1: Students will demonstrate the ability to use DSM V and ICD 10 classificatory systems
CO 2: Students will exhibit understanding of disorders and their causes
CO 3: Show understanding of the use of psychological theory to answer real world questions

Paper: Abnormal and Clinical Psychology

CO 1: Students would demonstrate knowledge about various methods along with different Clinical assessment techniques.
CO 2: Students would understand the various symptoms and treatment modalities of somatoform and bipolar disorders.
CO 3: To orient about clinical assessment process and it's application.
CO 4: Students will have understanding of the causes of disorder.

Paper: Research Methodology

CO 1: Students will exhibit understanding of basic principles of research methodology.
CO 2: Familiarise with the basics of scientific research in applied psychology
CO 3: Students can identify and critically evaluate psychological research methods.
CO 4: Students would be acquainted with research designs and research problems.

Department of Sociology
Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester I

Paper: Fundamentals of Sociology I

CO 1: Students will acquire detail knowledge regarding the emergence of Sociology and its Basic concept.
CO 2: Student will understand the subject matter of sociology, enlist the area of study.
CO 3: Student will able to learn about the various aspects related to the society, community and social institutions and their importance in human life.
CO 4: Student will be able to analysis the process of socialization and will understand importance of agencies of socialization.

Semester II

Paper: Fundamentals of Sociology II

CO 1: Students will able to explain about the social structure and function of the norms and values in the civilized society.
CO 2: Student will understand about the role and status in the life and the importance of culture.
CO 3: Students will acquire the ability to understand the socio-economic background of individuals and groups.
CO 4: Student will come to know about the role of formal and informal agencies of Social Control.

Semester III

Paper: Society in India

CO 1: Students will be able to understand about the Indian society and its diverse pattern in terms of languages, culture and regional uniqueness etc.
CO 2: Students will know about the origin of caste system and different theories of the caste.
CO 3: The students will learn about the national and international relevant social issues like communalism, gender and human rights.
CO 4: Students will be able to understand the social institutions and types of the societies and their differences.

Semester IV

Paper: Social Change in India

CO 1: Students will understand regarding about the concept of social change and its difference perspectives.
CO 2: The students will learn about the various factors of social change and their relevance.
CO 3: The students will acquire the knowledge about the different processes of social change like westernization, sanskritization, modernization, urbanization, industrialization etc.
CO 4: Students will develop the analytical ability to understand the social problems and find out the solutions.

Semester V

Paper: Social Thought

CO 1: Students will learn about the fundamental sociological perspectives and theories.
CO 2: The student will able to understand the emergence of capitalism and class struggle.
CO 3: The students will developed the critical thinking to understand the social issues like suicidal tendencies in the society.
CO 4: Students will learn about the theoretical perspectives and its applicability to understand the society.

Semester VI

Paper: Social Research

CO 1: The students will acquire the knowledge about the research methods and scientific techniques.
CO 2: Students will learn about different types of Research designs and its uses.

CO 3: Students will learn about samplings methods for the representative sample and techniques of the data collection.
CO 4: The students will able to know about the handling of the data, its analysis.

Post Graduate Department of Economics

Name of Programme: B.A./ B.Sc. Economics
Program Specific Outcome

On completion of the programme the students will be able to:

PSO 1: Apply an ethical understanding and perspective to different market situations.

PSO 2: Apply the concept of equilibrium to both microeconomics and macroeconomics.

PSO 3: Identify key macroeconomic indicators and measures of economics change, growth and development.

PSO 4: Develop understanding of how markets work to allocate resources and the optimal individual decision-making that underlies market outcomes.

PSO 5: Collect, analyse and interpret the economic data and suggest the policies for economic growth and stability

Course Outcomes

Semester-I

Paper: Micro Economics

The students will be able to:

CO 1: explain law of demand, factors affecting demand, causes of downward sloping demand curve, and identify various types of demand.

CO 2: evaluate price, income and cross elasticity of demand and determine consumers' equilibrium.

CO 3: illustrate revenue and cost curve through diagrams.

CO 4: compare different forms of market and producers' equilibrium in different markets.

Semester-II

Paper: Macro Economics

The students will be able to:

CO 1: compare and contrast between micro and macroeconomics.

CO 2: compare the features of Classical and Keynesian model of Income, Output and Employment.

CO 3: understand the concept of effective demand in determination of income and employment and its relative importance

CO 4: analyze the concept of consumption function, M.P.C. and A.P.C. and explain and illustrate Psychological law of consumption.

Semester-III

Paper: Indian Economy

The students will be able to:

CO 1: understand the basic characteristics of Indian economy, the development process in India after independence and the role of the Indian Economy in the global context.

CO 2: analyse the progress and changing nature of agriculture, industry and tertiary sectors and their contribution to the economy as a whole.

CO 3: develop a perspective on the different economic problems in India.

CO 4: elaborate the planning process and economic reforms undertaken by the government of India, its objectives, failures and achievements.

Semester- IV

Paper: International Economics and Public Finance

The students will be able to:

CO 1: Explain the concepts of terms of trade and contrast the theories of international trade.

CO 2: Compare free trade and protectionist policy and analyze the impact of International trade on economic development.

CO 3: Analyse the impact of public policy on the allocation of resources and analysis of public expenditures, taxation, budgetary procedures and debt issues.

CO 4: Elaborate the fixed and flexible exchange rates and propose the methods for correcting adverse balance of payments.

Semester-V

Paper: Economics of Development

The students will be able to:

CO 1: Understand the concepts, factors and measurement of Economic Development.
CO 2: Identify the nature and characteristics of Underdevelopment.
CO 3: Analyse various models of economic growth.
CO 4: Contrast the Export Promotion and Import Substitution policies of development.
CO 5: Assess the sources of capital formation and the choice of techniques.
CO 6: Elaborate the role of planning in under developed countries, its need, objectives, strategy, types and problems.

Semester- VI

Paper: Quantitative Methods for Economists

The students will be able to:

CO 1: Illustrate the concepts of Sets, Relations, Functions, Limits, Continuity, Derivatives, Maxima/Minima and Matrices.
CO 2: Use and apply the measures of central tendency, dispersion, skewness and kurtosis.
CO 3: Analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients.
CO 4: Construct index numbers for different purposes and test the consistency.
CO 5: Estimate the missing values with various methods of interpolation.

Name of Programme: B.A. /BSc. Economics (Quantitative Techniques)

Semester-II

Paper: Quantitative Techniques-II

The students will be able to:

CO 1: understand the role, scope and functions of Statistics and demonstrate the basic statistical concepts such as data collection, classification, statistical series, tabular, diagrammatic and graphical representation of data.
CO 2: Use and apply the measures of central tendency and dispersion.
CO 3: analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients and trend values in time series analysis.
CO 4: Construct index numbers for different purposes and test the consistency.

Semester-III

Paper: Quantitative Techniques-III

The students will be able to:

CO 1: apply maxima and minima offunction to solve various economics applications
CO 2: understand and apply the concept of matrices to solve various economics applications
CO 3: solve Simultaneous system of equations using Crammer‘s rule and Matrix Inverse method and apply it to solve real life situations
CO 4: riddle out problems using Graphic and Simplex method of Linear programming.

Semester-IV

Paper: Quantitative Techniques-IV

The students will be able to:

CO 1: find solution of multiple linear regression, partial and multiple correlation.
CO 2: understand non-linear regression and able to estimate the fitting of various growth curves.
CO3: solve applications of probability based on addition, multiplication and Bayes theorem of probability.

CO4: grasp the concept of random variable, probability mass function and density function, mathematical expectation (meaning and properties), moments, moment generating function and characteristic function.

Semester-V

Paper: Quantitative Techniques-V

The students will be able to:

CO 1: understand and apply probability theory and theoretical probability distributions in economic applications.

CO 2: use sample statistics to test hypothesis regarding population

CO 3: estimate the population parameters and to make judgments about the population.

CO 3: present an economic argument in quantitative terms and develop abilityto solve it.

Semester-VI

Paper: Quantitative Techniques-VI

The students will be able to:

CO 1: understand, solve and build regressionmodels

CO 2: understand and detect various problems associated with regression such as auto correlation, multi collinearity, heteroscedasticity along with their consequences and remedies.

CO 3: apply econometricmethodslikeautoregressivedistributedlagmodelstodifferenteconomic theories.

CO 4: understand the concept of dummy variable and its application in different economic situations.

Name of Programme: B.A. /BSc. Economics with Economics Honours

Semester-III

Paper: I Money and Banking

The students will be able to:

CO 1: summarize the nature, kinds, functions and definition of money.

CO 2: identify the different measures of money supply in India.

CO 3: understand and demonstrate credit creation by commercial banks

CO 4: explain the role and functions of non–banking financial institutions.

Semester-IV

Paper: II Public Finance

The students will be able to:

CO 1: distinguish between public and private finance.

CO 2: analyse advantages and disadvantages of various sources ofpublic revenue and classify taxation and discuss incidence, impact, and effects of taxation.

CO 3: critically examine causes of growth of public expenditure and its effect on economic growth, distribution and stability.

CO 4: critically evaluate the need, role, burden and management of public debt.

Name of Programme: B.Com

Semester-I

Paper: BCG-106BusinessStatistics

Students will be able to:

CO 1: understand meaning of statistics, basic statistical concepts and relevance of statistics in business.

CO 2 understand, calculate and interpret descriptive statistics such as measures of central tendency, dispersion, asymmetry, correlation, regression analysis, time seriesanalysis and index numbers.

CO 3: understand and apply probability theory and theoretical probability distributions in business.

CO 4 develop understanding of various types of probability and non-probability sampling techniques and their selection for drawing sample.

Semester-II

Paper: BCG-205BusinessEconomics

Students willbeable to:

CO 1: understand the concept of demand, law of demand, calculate and interpret elasticity of demand and develop knowledge regarding its significance in business, trade and government policies.
CO 2: understand and determine consumers 'equilibrium.
CO 3: interpret and evaluate equilibrium of producers under different markets conditions.
CO 4: identify various market structures and discuss their implications for resource allocation
CO5: differentiate between micro and macro concepts and objectives of economy.
CO6: understand concept of national income, judge its importance apply and interpret different methods of measurement of national income in different sectors.

Name of the Programme: BBA

Semester-I

Paper: BBA-105 Managerial Economics-I

The students will be able to:

CO 1: analyse the basic concepts, nature and scope of managerial economics.
CO 2: explain fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.
CO 3: distinguish between traditional and modern theory of costs.
CO 4: compare and contrast different markets structure, their characteristics and short and long run equilibrium.

Semester-II

Paper: BBA-205 Managerial Economics-II

The students will be able to:

CO1: Define the concepts of Macroeconomics, National Income aggregates and compare the methods of measurement of national income.
CO2: Apply the classical and modern principles of Macro Economics in explaining the behaviour of aggregate variables such as consumption, investment, saving, employment and money supply at national and global level.
CO3: Analyse the problem of inflation and examine its causes and consequences.
CO4: Elaborate the working of multiplier and formulate policy recommendations to counter business cycles.

Semester-III

Paper: BBA-303 Statistics for Business

The students will be able to:

CO 1: Understand the role, scope and functions of Statistics and demonstrate the basic statistical concepts such as data collection, classification, statistical series, tabular, diagrammatic and graphical representation of data.
CO 2: Illustrate matrix operations, determinants, minors, cofactors, inverse of a matrix, matrix method, Cramer's rule to solve system of equations and rank of a matrix.
CO 3: Use and apply the measures of central tendency, dispersion, skewness and kurtosis.
CO 4: Analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients and trend values in time series analysis.
CO 5: Construct index numbers for different purposes and test the consistency.
CO 6: Develop theoretical distributions by applying the concepts of probability.

Name of Programme: B. Com. (Financial Services)

Semester-I

Paper: Paper-IV Quantitative Techniques for Business-I

The students will be able to:

CO 1: understand, calculate and interpret descriptive statistics such as measures of central tendency, dispersion, asymmetry,

CO 2: construct index numbers for different purposes, test their consistency and identify suitable and best method.

CO 3: understand, solve, fit trend analysis and estimate the values on the basis of fitted trend.

CO 4**:** calculate simple and compound interest and apply discounting techniques.

Semester-II

Paper: Paper-III Quantitative Techniques for Business-II

The students will be able to:

CO 1: to evaluate nature and degree of association between variables by using various methods of measurement of correlation.

CO 2: build regression models and estimate regression coefficients.

CO 3: understand and apply probability theory and theoretical probability distributions in business.

CO 4: understand and compare various types of probability and non-probability sampling techniques and their selection for drawing sample.

Paper: Paper-VI Indian Financial System

The students will be able to:

CO 1: Understand Indian Financial System, its significance, purpose, organization and components.

CO 2: Compare and contrast traditional and innovative financial instruments and financial services.

CO 3: Analyse the process of money creation and working of financial markets.

CO 4: Elaborate the development of financial institutions and commercial banking.

Name of Programme: B.Voc. (Banking and Financial Services)

Semester–II

Paper: BVC-203 Managerial Economics

The students will be able to:

CO 1: feature out the basic concepts, nature and scope of managerial economics.

CO 2: explain fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.

CO 3: analyse the elasticity of demand, its meaning, types, degrees, methods of measuring, factors determining elasticity of demand and its importance.

CO 4: distinguish between traditional and modern theory of costs.

CO 5: compare and contrast different markets structure, their characteristics and short and long run equilibrium.

Semester–III

Paper: BVC-301 Business Statistics

The students will be able to:

CO 1: explain the functions, scope and limitations of statistics.

CO 2: Evaluate various types of averages – Arithmetic Mean (Simple and Weighted), Median and Mode.

CO 3: solve and build Regression equations.

CO 4: solve and apply both weighted and unweighted Index Numbers.

CO 5: Estimate trends using graphical method, semi average method, moving averages method and method of least squares for linear path.

CO 6: illustrate and solve simple applications of Probability based on addition and multiplication theorem of probability.

Semester–IV

Paper: BVC-402 Business Environment

The students will be able to:

CO 1: analyse the Concept, Importance and Inter relationship between environment and business.

CO 2: distinguish between different Types of Environment

CO 3: analyse Nature and impact of culture on business

CO 4: explore the Economic roles of government.

CO 5: understand Economic Environment its Nature and components.

Name of Programme: B.Sc. (Bio- Technology)

Semester- II

Paper: BT5 Bioinformatics

Students will be able to:

CO 1: solve and apply the concept of measures of central tendency.

CO 2: evaluate dispersion and it's co-efficient by applying various methods of dispersion

CO 3: apply various methods of simple correlation to find relation between two variables.

CO 4: construct and build regression lines.

CO 5: understand the basic concepts of probability, addition, multiplication and Bayes theorem and their application.

CO 6: Create and Evaluate hypotheses for a chi-square test of goodness-of-fit and for a chi-square test for association.

Name of Programme: MA (Economics)

Program Specific Outcome

On completion of the programme the students will be able to:

PSO 1: evaluate working of markets, and take optimal decision-making regarding allocation of resources and markets.

PSO 2: Identify key macroeconomic indicators and examine their contribution in economics change, growth and development.

PSO 3: discuss various strategies opted for development of different sectors like agriculture, industry, services, international trade.

PSO 4: critically assess generation and allocation of finances of government and budgets.

PSO 5: develop skills related to collection, analysis and interpretation of economic data and evaluate and recommend the policies for economic growth and stability.

Course Outcomes

Semester-I

Paper: MAE 101Micro Economics-I

Students will be able to:

CO 1: analyse different economics problems

CO 2: explain role of assumptions in theory formulation

CO 3: predict Consumer's behaviour under asymmetric information

CO 4: examine recent developments in demand analysis (pragmatic approach and linear expenditure systems).

Paper: MAE 102 Macro Economics-I

The students will be able to:

CO 1: Examine the concepts of Macroeconomics and National Income aggregates and compare the methods of measurement of national income.

CO 2: Compare various methods of measurement of national income.

CO 3: Apply the classical and modern principles of Macro Economics in explaining the behaviour of aggregate variables such as consumption, investment, saving, employment and money supply at national.
CO 4: Analyse the circular flow of income and working of social accounting framework.

Paper: MAE 103 Quantitative Methods for Economists-I

Students will be able to

CO 1: apply concept of derivatives, maxima minima for solving economic problems related to elasticity of demand, profit maximization, cost minimization, consumer's and producer's equilibrium.
CO 2: determine consumer's surplus and producer's surplus with application of integration.
CO 3: make optimal decision making related to choice and combination of inputs for maximizing profits, revenues and minimizing costs using linear programming techniques.
CO 4: apply the concept of matrices and input output tables to various economic problems.

Paper: MAEO-11 Computer Applications for Economists

The students will be able to:

CO 1: explain and identify various types of input and output devices.
CO 2: convert one number system to another number system.
CO 3: construct programs in 'C' language.
CO 4: develop accurate and well-designed documents using MS Word.

Paper: MAEO-4 Money, Banking and Finance

The students will be able to:

CO 1: Identify the functions, kinds and role of money in socialistic and capitalistic economy.
CO 2: Analyse the demand and supply of money and the related theories.
CO 3: Examine the structure of banking in India, nationalisation of banks in India and banking sector reforms.
CO 4: Evaluate the financial system, theories of banking, credit creation and monetary policy.
CO 5: Explain the functions of Central Banking with special reference to developing countries.
CO 6: Elaborate the determination of rate of interest, money and capital markets and recent developments.

Semester-II

Paper: MAE-201 Micro Economics-II

Students will be able to:

CO 1: explain Short run and long run equilibrium of the firm and industry, price and output determination and supply curve under perfect competition.
CO 2: Analyse and distinguish between different forms of markets.
CO 3: state and explain Baumol's sales revenue maximization model.
CO 4**:** summarize Pareto optimal conditions.

Paper: MAE 202 Macro Economics-I

The students will be able to:

CO 1: Apply the classical and modern principles of Macro Economics in explaining the behaviour of aggregate variables such as consumption, investment, saving, employment, prices and money supply at national and global level.
CO 2: Analyse the problem of inflation and its theories and examine its causes and consequences.
CO 3: Assess the recent developments in Macro Economics, their policy implications and evaluate the relative effectiveness of monetary and fiscal policies.
CO 4**:** Formulate and propose policy recommendations to counter business cycles.

Paper:MAE-203Quantitative Methods for Economists-II

The students will be able to:

CO 1: evaluate nature and degree of association between variables by using various methods of measurement of correlation and its importance in judging economic problems and their solutions.
CO 2: understand, solve and build regression models, trend analysis.

CO 3: develop understanding and justification for choice of various types of probability and non-probability sampling techniques, and the importance of randomization.
CO 4: understand and apply probability theory and theoretical probability distributions in economic applications.
CO5: use sample statistics to test hypothesis regarding population and estimate the population parameters and to make judgments about the population.

Paper: MAEO-12 Operations Research

The students will be able to:

CO 1: formulate operation research models to solve economic problems.
CO 2: understand and identify various types of queuing models and apply them to solve economic problems.
CO 3: determine optimum levels of inputs for maximizing profits, output and minimizing losses by applying linear programming models.
CO 4: solve transportation, game theory and assignment problems

Paper: MAEO-1 Public Finance

The students will be able to:

CO 1: distinguish between public, private and merit goods, and evaluate the role of public finance in development of economy.
CO 2: analyse advantages and disadvantages of various sources ofpublic revenue and classify taxation and discuss incidence, impact, and effects of taxation.
CO 3: critically examine causes of growth of public expenditure and its effect on economic growth, distribution and stability.
CO 4: critically evaluate the need, role, burden and management of public debt.
CO 5: identify different types of budget and evaluate budgetary position of economy
CO 6: critically examine the monetary and fiscal policy; centre state financial resources in Indian economy and resource transfer from union to state.

Name of Programme: M.Com.

Semester-I

Paper: MC-101 ManagerialEconomics

The students will be able to:

CO 1: understand and determine consumers ‘equilibrium through cardinal or ordinal utility analysis .
CO 2: analyse and evaluate equilibrium of producers under different markets conditions.
CO 3: identify various market structures and discuss their implications for resource allocation
CO 4: evaluate various factors responsible for rise in consumption, national income and apply different methods of measurement of national income in various sectors.
CO 5: identify causes of inflation and policy measures needed to curb it.

Paper: MC-102 Statistical Analysis for Business

Students will be able to:

CO 1: understand and analyse process of collection data, and their sources.
CO 2: develop understanding and justification for choice of various types of probability and non-probability sampling techniques, and the importance of andomization.
CO 3: understand and apply probability theory and theoretical probability distributions in business and research.
CO 4: design questionnaire, conduct pilot survey and pre testing of questionnaire.
CO 5: use sample statistics to test the hypothesis regarding population and estimate the population parameters and to make judgments about the population especially in business context.
CO 6: select appropriate statistical techniques for summarizing, displaying, comparing, analyzing and interpreting business data.

Semester-II

Paper:MC-203 ResearchMethodology

Students will be able to:

CO 1: critically assess, select and design appropriate research problem, research design and research process to achieve research objective.

CO 2: assess critically various methods like literature study, case study, structured surveys, in-depth interviews, focus group interviews.

CO 3: compare, evaluate and design various types of measurement andscalingtechniques.

CO 4: analyse and apply the process of collection, screening, transformation and analysis of data in research.

CO 5: calculate, present, and discuss descriptive and inferential statistics.

CO 6: understand, evaluate, apply and test multivariate analysis techniques such as regression analysis, factor analysis, discriminant and logistic analysis.

Name of the Programme: M.Sc. FD

Semester-III

Paper: Research Methodology

The students will be able to:

CO 1: identify the objectives, types of research and review of literature.

CO 2: compare the research designs, sampling designs, measurement and scaling techniques.

CO 3: evaluate the techniques of data collection, processing and analysis and interpret the results.

CO 4: formulate a research problem, design research hypotheses, plan the layout of research project and conduct the test of significance.

Name of the Programme: PGDFS

Semester-II

Paper: Financial Service-1

The students will be able to:

CO 1: explain leasing process and its evaluation.

CO 2: know about merchant banking and compare its various types and their benefits.

CO 3: describe different policies and schemes about different bank accounts and their working.

CO 4: evaluate services of registrar and transfer agents, about the credit card for credit card facilities, depository act and some knowledge of mutual funds.

Department of History
Name of the Programme – Bachelor of Arts

Course Outcomes

BA Semester I

Paper: Ancient Indian History 320B.C-1000A.D

CO 6: The students will be able to illustrate the development of an Empire
CO 5: Reviewing Ancient Indian civilisation in light of other ancient cultures.
CO 4: Mind Mapping different cultures, architectural styles and literary writings.
CO 3: How, when and where people first developed cultures, in terms of evolution, how they evolved from a primitive to a civilised man
CO 2: Understand the various aspects of Ancient Indian History in terms of society, cultural ,political relations and trade.
CO 1: The students will highlight the various aspects of Ancient Indian History from the Indus Valley Civilisation to the Vardhanas.

BA Semester II

Paper: Medieval Indian History 1000-1707A.D

CO 6: Formulating contribution of various dynasties towards medieval Indian culture.
CO 5: How early medieval period witnessed wars among the regional kingdoms from North to South and late medieval period saw number of invasions by Mughals, Afghans and Turks.
CO 4: Analysing various administrative , cultural and literary aspects of Medieval India
CO 3: The student will be able to illustrate their knowledge in understanding the transition of European traders who by the end of 15th century will a formidable political force.
CO 2: Understanding the emergence of various dynasties, their administration and final decline.
CO 1: The student will be able to reproduce the basics of the medieval Indian history

BA Semester III

Paper: Modern Indian History 1707-1947A.D

CO 6: The students will be able to formulate political fabric of India around 18th century
CO 5: Appraise the beginning of the freedom struggle and the saga of partition.
CO 4: Analyse how British transformed the economic, political and social fabric of India. Was this transformation through acts or otherwise
CO 3: Discover the emergence of socialist and communist movements in India
CO 2: Contrast the political ,social , economic features of Delhi Sultanate and Mughal Dynasties
CO 1: Explain the theatrical part of the Medieval History

BA Semester IV

Paper: History of Punjab 1469-1799A.D

CO 6: Building the important pillars of Sikhism and its reason behind being the fifth largest religion of the world.
CO 5: Appraise the role of Gurus towards the development of Sikhism.
CO 4: Co-relate the political conditions of Punjab with those of other kingdoms with respect to Dal Khalsa and Misls.
CO 3: Articulate the role played by Banda Singh Bahadur and other Sikh Generals in the Sikh History.
CO 2: Describe the advent of Sikhism in Punjab and contribution of 10 Gurus towards the development of Sikh Panth.
CO 1: Highlighting the early life and contribution of the 10 Guru's towards the development of Sikh Panth.

BA Semester V

Paper: History of the World 1500-the present times

CO 6: The students will be able to illustrate the most comprehensive and broadest approach to the question of who we are as both individual and members of the group.
CO 5: The Student will critically analyse the genesis and consequences of two World Wars which shaped the consequent international relations.
CO 4: Mind Mapping different cultures, architectural styles and literary writings in modern Europe, China, USSR and America.
CO 3: The student will be able to assess the causes and impact of major revolutions of the world.
CO 2 : Understand how renaissance and reformation shaped the world in coming centuries.
CO 1: The students will highlight the emergence of Renaissance and Reformation .

BA Semester VI

Paper: History of Punjab 1799-1947 A.D

CO 6: Formulating a deep understanding of the saga of partition of Punjab in 1947 and further division of Punjab on linguistic basis in 1966 A.D

CO 5: Contrasting the emergence and contribution of Socio-reform movements in Punjab.

CO 4: Analysing various political, administrative , cultural and literary aspects of Punjab from 1799-1966 A.D

CO 3: The student will be able to illustrate their knowledge in understanding the Anglo-Sikh relations in the 17th century..

CO 2: Understanding the administration in Punjab during the 17th century

CO 1: The student will be able to reproduce the early life of Ranjit Singh, along with his conquests and the Misl policy

Name of Programm: BA/Bsc/Bcom

Semester I

Paper: Punjab History & Culture From the earliest times to C 320 BC

CO 6: To construct the political, social, economic and cultural history of Punjab from earliest times to C 320

CO 5: Evaluating the emergence of two great religions in ancient Punjab i.e. Jainism and Buddhism.

CO 4: Comparative analyses of Early and Later Vedic period.

CO 3: Articulating the various dimensions of Harappan Civilisation and its importance in terms of Punjab.

CO 2: Understanding the Impact of physical features of Punjab on its History

CO 1: Outlining the Physical features of Pre Partition Punjab .

Semester II

Paper Punjab History & Culture C320-1000 A.D

CO 6: Building up the overall political, social, economic and religious scenario in Punjab from 7th century to 1000 A.D .

CO 5: Reflecting on socio-cultural history of Punjab from 7th to 1000 A.D

CO 4: Integrating the development of art and architecture with reference to major dynasties and kingdoms in Ancient Punjab

CO 3: Examining the development of language and education with reference to Taxila.

CO 2: Summarising the contribution of Mauryas, Kushans, Guptas and Vardhanas towards the political and administrative development of Punjab

CO 1: Identifying the role of various dynasties in the history of Ancient Punjab

Semester III

Paper: Punjab History & culture 1000-1605 A.D

CO 6: The students will be able to formulate political, social, religious and cultural fabric of Punjab around 17th century

CO 5: Appraise the emergence and development of Bhakti and Sufi Movements in Medieval Punjab.

CO 4: Analyse the role of Guru Nanak Dev as the founder of Sikhism and Guru Arjun Dev as a prelude to transformation in Sikhism.

CO 3: Assess the life and contribution of Guru Angad Dev, Guru Amar Das and Guru Ram Das towards the development of Sikh Panth.

CO 2: Understand the role played by Guru Arjun Dev towards the development of Sikh Panth in reference to establishment of various towns, Adi-Granth Sahib and his martyrdom .

CO 1: Explain the society and culture of Punjab during the Turko-Afghan rule.

Semester IV

Paper: Punjab History & Culture 1605-1849 A.D

CO 6: Collaborating the important aspects of history of Punjab, building the overall understanding of art and Architecture , Fair , Festivals and Folk music in Punjab during the medieval period.

CO 5: Reflecting on Art and Architecture during the 18th Century.

CO 4: Mind Mapping the emergence and organisation of Misls in Punjab.

CO 3: Articulate the role played by Banda Singh Bahadur and other Sikh Generals in the Sikh History

CO 2: Examining the circumstances behind the creation of Khalsa.

CO 1: Highlighting the contribution of Gurus, from Guru Hargobind to Guru Gobind Singh towards the development of Sikh Panth.

Semester V

Paper: Punjab History & culture 1849-1947A.D

CO 6: The students will be able to illustrate the most comprehensive and broadest political, social and religious dimensions to the history of Punjab.

CO 5: The Student will critically analyse the genesis of the freedom struggle in Punjab with special reference to Jallianwala Bagh Tragedy , Civil Disobedience movement, HSRA and Quit India Movement.

CO 4: Mind Mapping Gurudwara Reform Movement .

CO 3: The student will be able to assess the emergence of socio-religious reform movements with reference to Namdhari and Nirankari movement.

CO 2: Understand how Anglo Sikh wars transformed the political and administrative fabric of Punjab

CO 1: The students will highlight the annexation of Punjab by the British.

Semester VI

Paper: Punjab History & culture 1947-2000A.D

CO 6: Collaborating the various facets of history of Punjab, to analyse the political, social economic and cultural dimensions of this prosperous province.

CO 5: Reflecting on the Punjabi Diaspora and economic growth in Punjab after the Green Revolution..

CO 4: Integrating the major concerns of Drug addiction and female foeticide.

CO 3: Examining the development of Education in Punjab after 1947.

CO 2: Summarising the various stages of formation of Punjabi Suba in 1966.

CO 1: Identifying the causes and circumstances which culminated in Partition of Punjab.

Name of the Programme: Bachelor of Physical Education

BPES Part I (Annual)

Paper: Paper on Social Sciences

CO 6: Building the critical and analytical thinking while understanding Social Sciences. Using these tools to arrive at any decision in real life as well. To top it up , building skills to clear any competitive exam after opting for sports.

CO 5: Mind Mapping the regional division of India.

CO 4: Analysing the Physical features of the India and its main geographical divisions.

CO 3: Applying the critical thinking tool to examine the nature and scope of social sciences.

CO 2: Understand the National freedom struggle from 1857-1947.

CO 1: Outlining the conquests and administration of Ranjit Singh.

BPES Part 1(Annual)

Paper :Punjab History & Culture

CO 6: Formulating contribution of various dynasties towards rich Punjabi Culture.

CO 5: Evaluate the development of Art and Architecture in light of the political development in ancient Punjab

CO 4: Analysing the political condition of Ancient Punjab and subsequent Alexander's invasion and the advent of foreigners in Punjab.

CO 3: The student will be able to illustrate their knowledge in understanding the emergence new religions along with the development of education and literature in Punjab up to 1000 A.D

CO 2: Understanding the emergence of various dynasties, their administration and final decline

CO 1: The student will be able to reproduce the major dynasties/kingdoms in ancient Punjab and outlining the Physical features of Pre Partition Punjab .

BPES Part II (Annual)

Paper: Punjab History & Culture

CO 6: The students will be able to formulate political and social fabric of Punjab around 18th century through the study of fairs, festivals, folk music, dance and games in the Punjab.

CO 5: Appraise the development of Punjabi Language and Literature, Classical Writings and Famous legends of the Punjab.

CO 4: Analyse how British took over Punjab through the detailed study of Anglo-Sikh wars. Also divulge into the inner most details of the administration under the British.

CO 3: Sketching the role of Banda singh Bahadur in establishing sovereignty in Punjab.

CO 2: Understand the contribution of 10 Gurus towards the development of Sikh Panth.

CO 1: Explain the advent of Turko-Afghans and Mughals in Punjab during the Medieval times.

BPES Part III (Annual)

Paper: Punjab History & Culture

CO 6: Building the important pillars of what led to the Partition of Punjab.

CO 5: Appraise the spread of modern education.

CO 4: Analyse the achievements of the revolutionaries of Punjab towards the Freedom Struggle.

CO 3: Articulate Gurudwara Reform Movement and its subsequent impact on the political fabric of Punjab.

CO 2: Describe the socio reform movements of Punjab and its achievements.

CO 1: Highlighting the role played by British in the administration of Punjab and their policy towards Agriculture, Industry, trade and Commerce.

Post Graduate Department of Political Science
Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Principles of Political Science

CO 1: To acknowledge the modern and traditional viewpoint of normative and realistic approach
CO 2: To build the relationship of Political Science with other subject like Economics, History, Sociology and Psychology
CO 3: To discuss the social contract theory Hobbes, Locke and Rousseau and evolutionary theory and liberal, Marxian, and Gandhian views of state.
CO 4: To gain knowledge of Welfare State: Concept and Functions of Welfare State.
CO 5: To analyse electorates and electoral Systems.

Semester-II

Paper: Modern political theory

CO 1: To build understanding of the political system: its meaning, characteristics and Functions, political culture characteristics and its types, political socializations different agencies.
CO 2: To recognize the rights and duties
CO 3: To examine the environmental Protection: issue and efforts made at national and international level to protect environment
CO 4: To identifythe concepts of liberty, justice, equality, and democracy

Semester-III

Paper: Indian constitution

CO 1: To build understanding the making of constitution
CO 2: To identify the rights and duties
CO 3: To examine Indian federalism through Centre-state relations
CO 4: To evaluate the structures of government at the State level and National Level
CO 5: To pursue detailed study of High Court and Supreme Court in India.

Semester-IV

Paper: Indian Political System

CO 1: To examine the role of Political parties in Indian Democracy.
CO 2: To evaluatethe Election Commission and electoral process in India.
CO 3: To research the process of interaction between society and politics in contemporary India-Caste, tribe, and religion.
CO 4: To create awareness about sociopolitical structure of India.
CO 5: To evaluate India's foreign policy and make analytical study of relevance of India's Non-alignment Policy.

Semester-V

Paper: Comparative Political Systems (UK & USA)

CO 1: To apply the methodology of comparative analysis within the discipline of political science.
CO 2: To analyse the Contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
CO 3: To evaluate and complete an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the U.S and U.K model.
CO 4: To build the comparison between the Political Systems of UK, USA and India.

Semester–VI

Paper: International Politics: Theory and Practice

CO 1: To analyses the key historical events which shaped the international system in the 20th century.
CO 2: To build the concepts of basic structures of the contemporary international system; and the key actors, institutions, and their functions.
CO 3: To categorize the role of individual and cultural values and perceptions, and the importance of empirical evidence in analyzing international problems.
CO 4: To conclude the role of International and regional organizations, economic groups in current pandemic phase.

Name of Programme: B.A. with Honors

Semester-III

Paper: Public Administration

CO 1: To recognize the scope of public administration and Utility, difference between public and private administration.

CO 2: To developthe theory of Hierarchy; unity of command, coordination and delegated legislation, concept of Good Governance in political system of India.

CO 3: To discuss the function of civil services: recruitment and training and their role in nation building

CO 4: To analysethe passing budget process and sound budgetary system in Indian parliamentary control

Semester-IV

Paper: Indian Foreign Policy

CO 1: Toexplain Determinants-internal, historical physical setting, economic and ideological and basic principles of Indian foreign policy.

CO 2: To developIndia's approach towards its neighbouring countries-Sri Lanka, Bangladesh, Nepal and Pakistan and Major Powers: US, China

CO 3: To analyseIndia's Approach towards the Restructuring of the UN power and understands India's Nuclear Policy.

CO 4: To analyse the relevance of India's Non-alignment Policy.

Semester-V

Paper: Indian Political Thinkers

CO 1: To appreciatethe views of Indian Political Thinkers about ideal state,

CO 2: To analyse satyagraha, non–violence, views on untouchability and social justices, total revolution, and philosophy of radical humanism.

CO 3: To apply the views of these thinkers in Political System of India.

CO 4: To compare different views of different Indian Political Thinkers and make a comparison.

Semester-VI

Paper I: Western Thinkers

CO 1: To realize thebasic Concepts of Political Thought which addresses the enduring political theories and questions of political life and value.

CO 2: To developthe concept of western political thought. How the thinkers Plato, T.H. Green and JS Mill concluded king, society, and state.

CO 3: To analyse the thinking of the western thinkers about the state and religion and how they are separated from each other.

Name of Programme: M.A. Political Science

Programme Outcomes

PO 1: The Masters of Arts programme provides the candidates with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, or public administration.

PO 2: The students will acquire knowledge and understanding in their specific field of study as well as into current research and development work.

PO 3: They will be able to demonstrate the ability to identify issues critically and to plan the assigned tasks accordingly.

PO 4: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 5: The programme (including English, Punjabi, Hindi and Political Science) combines theoretical teaching with logical tools and theories, through group work, seminars and workshops. This includes exercises in which participants co-develop and verify practical solutions to real-world issues.

Programme Specific Outcomes

PSO 1: Understanding the nature and developments in national and international politics.

PSO 2: Analysing the Indian constitutional provisions, major legislations and reforms.

PSO 3: Evaluation of Indian society in terms of social, economic and political aspects

PSO 4: Imparting knowledge of Indian and Western political thinkers.

PSO 5: Encouraging comparative understanding of specific world constitutions such as UK, USA, China and France.

PSO 6: Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.

PSO 7: Examining India's foreign relations with neighbours and great powers.

PSO 8: Comparative study of international and regional organisations like UNO, SAARC, EU, OPIC etc.

Course Outcomes

Semester-I

Paper I: Western Political Thought-I

CO 1: To acquire knowledge Social and Economic Conditions of Greek City States, theory of Justice Communism, Education, and theory of Philosopher King by Plato.

CO 2: To analyse Machiavelli: Separation of Ethics from Politics statecraft and Hobbes views on human nature and State of Nature

CO 3: To discuss Locke theory state of nature, Natural Rights possessive individualism and Social Contract theory

CO 4: To evaluate Rousseau: human nature and state of nature and social contract theory of General Will

Paper II: International Politics

CO 1: To explain the scope and subject matter of International Relations as an autonomous academic discipline. Studying the role of Diplomacy, Propaganda and Military capabilities in the making of foreign policy.

CO 2: To developbasic concepts like Globalization in contemporary world order. The Cold War phases and understanding the post-Cold War era. Discussing the developments in European Ethno-nationalism since 1990's.

CO 3: To examine relationship of North and South Countries and their issues.

CO 4: To defineregional groups of International Politics.

Paper III: Indian Political System

CO 1: To classify and outline the basic values and philosophy of Indian Constitution as expressed in the Preamble.

CO 2: To study application of Fundamental rights, duties and Directive Principles of State Policy, Judicial Activism.

CO 3: To analyse andevaluate the structures of government at the National level and State

level.

CO 4: To explain the Centre & State Relations

Paper IV: Principles of Public Administration

CO 1: To build knowledgeand examine Significance of Public Administration and Ecology of Public Administration, New Public Administration

CO 2: To analyse the theory of Scientific Management (Taylor), Bureaucratic Theory of Organization (Weber), Human, Relations (Elton Mayo). Herbert Simon's Decision-Making Approach

CO 3: To gain knowledge about Principles of hierarchy, Unity of Command, Span of Control, Delegation, and recruitment

CO 4: To examine The Concept of Budget and Performance Budgeting and functions of Lok Pal and LokAyukta

Paper V: Political Sociology

CO 1: To evaluate concepts of Power, Authority and Legitimacy in the context of society

CO 2: To examine the meaning, nature, and scope of Political Sociology.

CO 3: To pursue comparative study of Political Science, Sociology and Political Sociology

CO 4: To discuss the various approaches to the study of Political Culture and evaluate the different agents of Political Socialization and their interrelationships.

CO 5: To evaluate the concept of Political Development and Social Change-Role of Tradition and Modernity

Semester-II

Paper VI: Western Political Thought-II

CO 1: To examine Bentham theory of utilitarianism

CO 2: To evaluate John Stuart Mill's theory on Liberty and working system of representative government

CO 3: To analyse Hegel's theory of Dialectical and historical materialism

CO 4: To gain knowledgeandanalyseThe Marx Dialectical and Historical Materialism, Class Struggle, and theory of surplus value

Paper VII: Modern Political Analysis

CO 1: To analyse what is Modern Political Analysis and explain the approach to the Study of Politics– Normative, Behavioural, Post Behavioural and System.

CO 2: To assess empirical Modern Political Theory: System's Analysis, Structural Functionalism.

CO 3: Evaluate the Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructure

CO 4: Analysethe PoliticalDevelopmentand Modernization.

Paper VIII: Comparative Political Systems: UK, USA, and France

CO 1: To develop the theory and the methodology of comparative analysis within the discipline of political science.

CO 2: To analyseContemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.

CO 3: To evaluate The institutions, political behaviour and political ideas of different countries.

CO 4: To create a difference among the different political systems of the world and make a comparison among them.

Paper IX: Issues and Trends in Indian Politics

CO 1: To explain the different theories from the point of view of Indian Political perspective.

CO 2: To build the process of interaction between society and politics in contemporary India-Caste, tribe, and religion.

CO 3: To examine coalition government in detail andanalyse Dalit politics.

CO 4: To evaluate Socio-economic system conditioning Indian Democracy

Paper X: Public Policy

CO 1: To build knowledgeand examinethe Features of public policy and five types of public policy (Substantive, Regulatory, Distributive and Re-distributive policies)

CO 2: To explain the policy analysis and policy making in India, evaluate different methods

and techniques to policy analysis

CO 3: To study three types of Model Lindblom's incremental, Herbert Simon decision making and Dror Normative optimum model

CO 4: To analyse the role of executive, legislature, judiciary, political parties, pressure groups, mass media and social movements

CO 5: To apply the type different conditions for successful implementation of the policy

Semester-III

Paper XI: Politics of International Economic Relations

CO 1: To comprehend patterns of interaction and change at the global level.

CO 2: To evaluate both international politics and economics in an integrated manner.

CO 3: To analyse the economic issues of trade, finance, production, and development, but not from the perspective of economic theory. Instead, learner will engage with the International Relations concepts, ideas and literatures on the economic relations among states, and between states and non-state actors (such as firms, societal groups and international organizations).

CO 4: To examine the political problems that arise as a consequence of the increasing density of international economic relations.

CO 5: To gain knowledgeof economics through the course. This is not a requirement though.

Paper XII: Foreign Policy of India

CO 1: To analyse the determinants and basic principles of Indian foreign policy.

CO 2: To compareIndia's approach towards its neighbouring countries-Sri Lanka, Bangladesh, Nepal and Pakistan and Major Powers: US, China

CO 3: To formulate India's Approach towards the Restructuring of the UN power.

CO 4: To comprehend India's Nuclear Policy.

Paper XIII: International Law

CO 1: To identifyand undertake comparative study of International law and municipal law

CO 2: To address traditional ―public law topics, such as the actions of states and interstate organizations, so-called private international law (dealing with the regulation of persons or property), or modern regimes that blur such distinctions, such as courses on global governance or the World Trade Organization.

CO 3: To evaluate International law relating to war and peace.

CO 4: To analyse and evaluate International treaties and International law.

Paper XIV: International Organization

CO 1: To assimilate a thorough knowledge of the core literature on international organizations

CO 2: To gain detailed knowledge of United Nations

CO 3: To examine information regarding United Nations Declaration on Human Rights

CO 4: To engage with this literature critically by developing their own argumentation

CO 5: To analyse the main theoretical approaches and empirical issues in the study of international organizations

Paper XV: Human Rights

CO 1: To buildhuman rights as an object of study Social Sciences, as well as a practical reality in national and international politics.

CO 2: To categorize Human rights as a branch of public international law, and relevant juridical mechanisms at global as well as regional levels,

CO 3: To judgedifferent ways of promoting and implementing human rights, domestically as well as on the international level.

CO 4: To define the role of human rights in contemporary issues relating to terrorism, religion, ethnicity, gender, and development

Semester-IV

Paper XVI: Recent Political Theory

CO 1: To explain the origin and decline of Political theory.

CO 2: To analyse Gramci and Max Webber viewpoints of state, civil society, and hegemony

CO 3: To explain the different theories of democracy

CO 4: To assess the concepts of positivism, neo-positivism, modernism, post-modernism, libertarianism

CO 5: To examine the theories of state and its legislation

Paper XVII: Indian Political Thought

CO 1: To compare Indian Political Thought which addresses the enduring political theories and questions of political life and values.

CO 2: To helpstudents to derive conclusions on the philosophy of different Political Thinkers.

CO 3: To adapt the Philosophy of Indian Political Thinkers in her practical life.

Paper-XVIII Government and Politics in Punjab

CO 1: To discuss the Singh Sabha Movement in Punjab, AryaSamaj, Movement, Ghadhar Movement and Praja- Mandal Movement and to analyse the AkaliMorcha in Punjab

CO 2: To explainRole of coalition politics in Punjab

CO 3: To examine the Sarkaria Commission in centre state relations

CO 4: To ascertain the Impact of Green Revolution in Punjab socio politics system

CO 5: To evaluate the dynamics party system in Punjab: Akali Dal, Congress-I, BJP and its emerging trends in Punjab Politics

Paper XIX: Research Methods in Social Science

CO 1: To gain knowledgeand examine role of scientific methods in social sciences

CO 2: To analyse the concepts of hypothesis

CO 3: To examine selection and formulation of the research problem, research design and sampling and sampling techniques

CO 4: To discuss about different methods like: survey, questionnaire, interview, observation and document analysis.

CO 5: To evaluate the various dimensions of research: data analysis, data interpretation and report writing

Paper XX: Politics in South Asia

CO 1: To examine Colonial and, especially, the postcolonial history, institutions, and political processes of South Asian Countries.

CO 2: To compare Specific institutions, events, and actors involved in the politics, political economy, and political sociology of South Asian Countries.

CO 3: To formulatea critical understanding of specific debates regarding patterns of political, economic, social, and cultural change in South Asia countries, as well as an ability to test the ideas that lie behind these debates with empirical data.

Post Graduate Department of Political Science
Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Principles of Political Science

CO 1: To acknowledge the modern and traditional viewpoint of normative and realistic approach
CO 2: To build the relationship of Political Science with other subject like Economics, History, Sociology and Psychology
CO 3: To discuss the social contract theory Hobbes, Locke and Rousseau and evolutionary theory and liberal, Marxian, and Gandhian views of state.
CO 4: To gain knowledge of Welfare State: Concept and Functions of Welfare State.
CO 5: To analyse electorates and electoral Systems.

Semester-II

Paper: Modern political theory

CO 1: To build understanding of the political system: its meaning, characteristics and Functions, political culture characteristics and its types, political socializations different agencies.
CO 2: To recognize the rights and duties
CO 3: To examine the environmental Protection: issue and efforts made at national and international level to protect environment
CO 4: To identifythe concepts of liberty, justice, equality, and democracy

Semester-III

Paper: Indian constitution

CO 1: To build understanding the making of constitution
CO 2: To identify the rights and duties
CO 3: To examine Indian federalism through Centre-state relations
CO 4: To evaluate the structures of government at the State level and National Level
CO 5: To pursue detailed study of High Court and Supreme Court in India.

Semester-IV

Paper: Indian Political System

CO 1: To examine the role of Political parties in Indian Democracy.
CO 2: To evaluatethe Election Commission and electoral process in India.
CO 3: To research the process of interaction between society and politics in contemporary India-Caste, tribe, and religion.
CO 4: To create awareness about sociopolitical structure of India.
CO 5: To evaluate India's foreign policy and make analytical study of relevance of India's Non-alignment Policy.

Semester-V

Paper: Comparative Political Systems (UK & USA)

CO 1: To apply the methodology of comparative analysis within the discipline of political science.
CO 2: To analyse the Contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
CO 3: To evaluate and complete an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the U.S and U.K model.
CO 4: To build the comparison between the Political Systems of UK, USA and India.

Semester–VI

Paper: International Politics: Theory and Practice

CO 1: To analyses the key historical events which shaped the international system in the 20th century.
CO 2: To build the concepts of basic structures of the contemporary international system; and the key actors, institutions, and their functions.
CO 3: To categorize the role of individual and cultural values and perceptions, and the importance of empirical evidence in analyzing international problems.
CO 4: To conclude the role of International and regional organizations, economic groups in current pandemic phase.

Name of Programme: B.A. with Honors

Semester-III

Paper: Public Administration

CO 1: To recognize the scope of public administration and Utility, difference between public and private administration.

CO 2: To developthe theory of Hierarchy; unity of command, coordination and delegated legislation, concept of Good Governance in political system of India.

CO 3: To discuss the function of civil services: recruitment and training and their role in nation building

CO 4: To analysethe passing budget process and sound budgetary system in Indian parliamentary control

Semester-IV

Paper: Indian Foreign Policy

CO 1: Toexplain Determinants-internal, historical physical setting, economic and ideological and basic principles of Indian foreign policy.

CO 2: To developIndia's approach towards its neighbouring countries-Sri Lanka, Bangladesh, Nepal and Pakistan and Major Powers: US, China

CO 3: To analyseIndia's Approach towards the Restructuring of the UN power and understands India's Nuclear Policy.

CO 4: To analyse the relevance of India's Non-alignment Policy.

Semester-V

Paper: Indian Political Thinkers

CO 1: To appreciatethe views of Indian Political Thinkers about ideal state,

CO 2: To analyse satyagraha, non–violence, views on untouchability and social justices, total revolution, and philosophy of radical humanism.

CO 3: To apply the views of these thinkers in Political System of India.

CO 4: To compare different views of different Indian Political Thinkers and make a comparison.

Semester-VI

Paper I: Western Thinkers

CO 1: To realize thebasic Concepts of Political Thought which addresses the enduring political theories and questions of political life and value.

CO 2: To developthe concept of western political thought. How the thinkers Plato, T.H. Green and JS Mill concluded king, society, and state.

CO 3: To analyse the thinking of the western thinkers about the state and religion and how they are separated from each other.

Name of Programme: M.A. Political Science

Programme Outcomes

PO 1: The Masters of Arts programme provides the candidates with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, or public administration.

PO 2: The students will acquire knowledge and understanding in their specific field of study as well as into current research and development work.

PO 3: They will be able to demonstrate the ability to identify issues critically and to plan the assigned tasks accordingly.

PO 4: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 5: The programme (including English, Punjabi, Hindi and Political Science) combines theoretical teaching with logical tools and theories, through group work, seminars and workshops. This includes exercises in which participants co-develop and verify practical solutions to real-world issues.

Programme Specific Outcomes

PSO 1: Understanding the nature and developments in national and international politics.

PSO 2: Analysing the Indian constitutional provisions, major legislations and reforms.

PSO 3: Evaluation of Indian society in terms of social, economic and political aspects

PSO 4: Imparting knowledge of Indian and Western political thinkers.

PSO 5: Encouraging comparative understanding of specific world constitutions such as UK, USA, China and France.

PSO 6: Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.

PSO 7: Examining India's foreign relations with neighbours and great powers.

PSO 8: Comparative study of international and regional organisations like UNO, SAARC, EU, OPIC etc.

Course Outcomes

Semester-I

Paper I: Western Political Thought-I

CO 1: To acquire knowledge Social and Economic Conditions of Greek City States, theory of Justice Communism, Education, and theory of Philosopher King by Plato.

CO 2: To analyse Machiavelli: Separation of Ethics from Politics statecraft and Hobbes views on human nature and State of Nature

CO 3: To discuss Locke theory state of nature, Natural Rights possessive individualism and Social Contract theory

CO 4: To evaluate Rousseau: human nature and state of nature and social contract theory of General Will

Paper II: International Politics

CO 1: To explain the scope and subject matter of International Relations as an autonomous academic discipline. Studying the role of Diplomacy, Propaganda and Military capabilities in the making of foreign policy.

CO 2: To developbasic concepts like Globalization in contemporary world order. The Cold War phases and understanding the post-Cold War era. Discussing the developments in European Ethno-nationalism since 1990's.

CO 3: To examine relationship of North and South Countries and their issues.

CO 4: To defineregional groups of International Politics.

Paper III: Indian Political System

CO 1: To classify and outline the basic values and philosophy of Indian Constitution as expressed in the Preamble.

CO 2: To study application of Fundamental rights, duties and Directive Principles of State Policy, Judicial Activism.

CO 3: To analyse andevaluate the structures of government at the National level and State

level.

CO 4: To explain the Centre & State Relations

Paper IV: Principles of Public Administration

CO 1: To build knowledgeand examine Significance of Public Administration and Ecology of Public Administration, New Public Administration

CO 2: To analyse the theory of Scientific Management (Taylor), Bureaucratic Theory of Organization (Weber), Human, Relations (Elton Mayo). Herbert Simon's Decision-Making Approach

CO 3: To gain knowledge about Principles of hierarchy, Unity of Command, Span of Control, Delegation, and recruitment

CO 4: To examine The Concept of Budget and Performance Budgeting and functions of Lok Pal and LokAyukta

Paper V: Political Sociology

CO 1: To evaluate concepts of Power, Authority and Legitimacy in the context of society

CO 2: To examine the meaning, nature, and scope of Political Sociology.

CO 3: To pursue comparative study of Political Science, Sociology and Political Sociology

CO 4: To discuss the various approaches to the study of Political Culture and evaluate the different agents of Political Socialization and their interrelationships.

CO 5: To evaluate the concept of Political Development and Social Change-Role of Tradition and Modernity

Semester-II

Paper VI: Western Political Thought-II

CO 1: To examine Bentham theory of utilitarianism

CO 2: To evaluate John Stuart Mill's theory on Liberty and working system of representative government

CO 3: To analyse Hegel's theory of Dialectical and historical materialism

CO 4: To gain knowledgeandanalyseThe Marx Dialectical and Historical Materialism, Class Struggle, and theory of surplus value

Paper VII: Modern Political Analysis

CO 1: To analyse what is Modern Political Analysis and explain the approach to the Study of Politics– Normative, Behavioural, Post Behavioural and System.

CO 2: To assess empirical Modern Political Theory: System's Analysis, Structural Functionalism.

CO 3: Evaluate the Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructure

CO 4: Analysethe PoliticalDevelopmentand Modernization.

Paper VIII: Comparative Political Systems: UK, USA, and France

CO 1: To develop the theory and the methodology of comparative analysis within the discipline of political science.

CO 2: To analyseContemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.

CO 3: To evaluate The institutions, political behaviour and political ideas of different countries.

CO 4: To create a difference among the different political systems of the world and make a comparison among them.

Paper IX: Issues and Trends in Indian Politics

CO 1: To explain the different theories from the point of view of Indian Political perspective.

CO 2: To build the process of interaction between society and politics in contemporary India-Caste, tribe, and religion.

CO 3: To examine coalition government in detail andanalyse Dalit politics.

CO 4: To evaluate Socio-economic system conditioning Indian Democracy

Paper X: Public Policy

CO 1: To build knowledgeand examinethe Features of public policy and five types of public policy (Substantive, Regulatory, Distributive and Re-distributive policies)

CO 2: To explain the policy analysis and policy making in India, evaluate different methods

and techniques to policy analysis

CO 3: To study three types of Model Lindblom's incremental, Herbert Simon decision making and Dror Normative optimum model

CO 4: To analyse the role of executive, legislature, judiciary, political parties, pressure groups, mass media and social movements

CO 5: To apply the type different conditions for successful implementation of the policy

Semester-III

Paper XI: Politics of International Economic Relations

CO 1: To comprehend patterns of interaction and change at the global level.

CO 2: To evaluate both international politics and economics in an integrated manner.

CO 3: To analyse the economic issues of trade, finance, production, and development, but not from the perspective of economic theory. Instead, learner will engage with the International Relations concepts, ideas and literatures on the economic relations among states, and between states and non-state actors (such as firms, societal groups and international organizations).

CO 4: To examine the political problems that arise as a consequence of the increasing density of international economic relations.

CO 5: To gain knowledgeof economics through the course. This is not a requirement though.

Paper XII: Foreign Policy of India

CO 1: To analyse the determinants and basic principles of Indian foreign policy.

CO 2: To compareIndia's approach towards its neighbouring countries-Sri Lanka, Bangladesh, Nepal and Pakistan and Major Powers: US, China

CO 3: To formulate India's Approach towards the Restructuring of the UN power.

CO 4: To comprehend India's Nuclear Policy.

Paper XIII: International Law

CO 1: To identifyand undertake comparative study of International law and municipal law

CO 2: To address traditional ―public law topics, such as the actions of states and interstate organizations, so-called private international law (dealing with the regulation of persons or property), or modern regimes that blur such distinctions, such as courses on global governance or the World Trade Organization.

CO 3: To evaluate International law relating to war and peace.

CO 4: To analyse and evaluate International treaties and International law.

Paper XIV: International Organization

CO 1: To assimilate a thorough knowledge of the core literature on international organizations

CO 2: To gain detailed knowledge of United Nations

CO 3: To examine information regarding United Nations Declaration on Human Rights

CO 4: To engage with this literature critically by developing their own argumentation

CO 5: To analyse the main theoretical approaches and empirical issues in the study of international organizations

Paper XV: Human Rights

CO 1: To buildhuman rights as an object of study Social Sciences, as well as a practical reality in national and international politics.

CO 2: To categorize Human rights as a branch of public international law, and relevant juridical mechanisms at global as well as regional levels,

CO 3: To judgedifferent ways of promoting and implementing human rights, domestically as well as on the international level.

CO 4: To define the role of human rights in contemporary issues relating to terrorism, religion, ethnicity, gender, and development

Semester-IV

Paper XVI: Recent Political Theory

CO 1: To explain the origin and decline of Political theory.

CO 2: To analyse Gramci and Max Webber viewpoints of state, civil society, and hegemony

CO 3: To explain the different theories of democracy

CO 4: To assess the concepts of positivism, neo-positivism, modernism, post-modernism, libertarianism

CO 5: To examine the theories of state and its legislation

Paper XVII: Indian Political Thought

CO 1: To compare Indian Political Thought which addresses the enduring political theories and questions of political life and values.

CO 2: To helpstudents to derive conclusions on the philosophy of different Political Thinkers.

CO 3: To adapt the Philosophy of Indian Political Thinkers in her practical life.

Paper-XVIII Government and Politics in Punjab

CO 1: To discuss the Singh Sabha Movement in Punjab, AryaSamaj, Movement, Ghadhar Movement and Praja- Mandal Movement and to analyse the AkaliMorcha in Punjab

CO 2: To explainRole of coalition politics in Punjab

CO 3: To examine the Sarkaria Commission in centre state relations

CO 4: To ascertain the Impact of Green Revolution in Punjab socio politics system

CO 5: To evaluate the dynamics party system in Punjab: Akali Dal, Congress-I, BJP and its emerging trends in Punjab Politics

Paper XIX: Research Methods in Social Science

CO 1: To gain knowledgeand examine role of scientific methods in social sciences

CO 2: To analyse the concepts of hypothesis

CO 3: To examine selection and formulation of the research problem, research design and sampling and sampling techniques

CO 4: To discuss about different methods like: survey, questionnaire, interview, observation and document analysis.

CO 5: To evaluate the various dimensions of research: data analysis, data interpretation and report writing

Paper XX: Politics in South Asia

CO 1: To examine Colonial and, especially, the postcolonial history, institutions, and political processes of South Asian Countries.

CO 2: To compare Specific institutions, events, and actors involved in the politics, political economy, and political sociology of South Asian Countries.

CO 3: To formulatea critical understanding of specific debates regarding patterns of political, economic, social, and cultural change in South Asia countries, as well as an ability to test the ideas that lie behind these debates with empirical data.

Department of Music Instrumental
Name of the Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester: I

Paper: Theory and Practical

CO 1: Enables students to learn and exalts the human spirit and enhances the quality of life.
CO 2: Students will analyse the fundamental purpose to transmit cultural heritage, and music is a powerful means for communicating that message.
CO 3: Student will understand the basic terminologies of music and learn to write the practical compositions according to the Notation system.
CO 4: Demonstration and knowledge of theoretical aspects of ragas
CO 5: The student is able to give a practical demonstration of the prescribed ragas and is able to demonstrate various aspects of ragas and their differentiation.

Semester: II

Paper: Theory and Practical

CO 1: Students are able to explain and gain detailed knowledge about Tala system.
CO 2: Enable students to learn about history of music.
CO 3: Exhibit knowledge of current issues and trends in music education.
CO 4: Music uses one of the most powerful systems which can be used for the development of critical thinking skills in all students.
CO 5: Students will gain knowledge about the ancient and medieval history of Percussion instruments.

Semester: III

Paper: Theory and Practical

CO 1: Demonstrate competence in musicianship, to include: aural skills, and knowledge and application of music theory.
CO 2: Students will learn about the life and contribution of the various artists and composers.
CO 3: The student understands the development of various musical forms and their features in present musical forms.
CO 4: He gains knowledge about the role of Music in maintaining the traditional values of Indian culture.
CO 5: The student studies in detail the theoretical aspects related to the Practical ragas

Semester: IV

Paper: Theory and Practical

CO 1: To learn about the various theoretical aspects related to instrument playing.
CO 2: Explanation of analytical study of the principles of compositions in Indian music.
CO 3: Exhibit knowledge of current issues and trends in music education.
CO 4: Students understand the chronological development of various technical terms, schools of vocal & instrumental music & their styles and musical instruments, their origin, development and present status.
CO 5: Students will understand the classical & folk terms & their interrelationship.

Semester: V

Paper: Theory and Practical

CO 1: Describe and explain the traditional function of their instrument in the band or orchestra.
CO 2: Demonstrate mastery of the following major scales - (concert pitch) Band - C, F, Bb, Eb, Ab, Chromatic; Orchestra - D, G, C, F.
CO 3: Ability to perform musical compositions in prescribed Ragas & Talas.
CO 4: Students will demonstrate the application of knowledge related to the history of music, including various time periods, historical figures, styles and genres in musical traditions.
CO 5: Acquaintance with the biographies of important musicians.

Semester: VI

Paper: Theory and Practical

CO 1: Students are able to explain and demonstrate various aspects of talas and their various aspects.

CO 2: To know about the various ways to document & preserve Music and to know about the sound equipments.
CO 3: Demonstrate competence in musicianship, to include: aural skills, and knowledge and application of music theory.
CO 4: To gain knowledge about the various Interdisciplinary aspects of Music.
CO 5: Students will be able to create, analyze, and synthesize music as a means of supporting developing careers in music teaching and/or performance. (Theory and Musicianship).

Department of Dance

Name of Programme: B.A. (Bachelor of Arts)

Paper: Indian Classical Dance

Course Outcomes

Semester-I

CO 1: Students will learn about the Origin and development of Kathak Dance from Ancient to Mughal period.

CO 2: Students will be able to define the following terms :–Theka, Tatkar, Thaat, Amad, Salami, Tora, Paran, Tehai.

CO 3: Students will acquire the detail Knowledge of :- Ang, Pratyang, Upang

CO 4: Students will acquire knowledge of Rasa and their importance in Kathak Dance.

CO 5: Students will understand the role of dance in society.

CO 6: Students will acquire Knowledge of the Folk Dances of Punjab with their style, costume and music.

CO 7: Students will learn the notation of Teen Taal with its: Tatkar in Thaah, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit.

CO 8: Students will be able to describe Teentaal, Tilwara Kehrva with the notation of their Thekas in ekgun, Dugun, Tigun and Chaugun Layakaries and notation of Nagma in Teen Taal.

CO 9: Practical demonstration of Teen Taal with its: Tatkar in ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit and Padhant of whole material by hand in all Taal.

CO 10: Students will be able to demonstrate Punjabi Folk Dance and to play Nagma of Teen Taal on Harmonium.

Semester-II

CO 1: Students will learn about the Origin & Development of Bharat Natyam Dance and Essential characteristics of Manipuri Dance.

CO 2: Students will be able to define the following terms :– Kavit, Chakardar Paran, Bhaav, Kasak, Masak, Vandana, Gat, Laya

CO 3: Students will acquire the Knowledge of :- Four neck movements, Eight eye glances, Seven eye–brow movements and Nine head movements.

CO 4: Students will learn about Asmyukta Mudras based on Abhinaya Darpan and detailed description of any fifteen with its uses.

CO 5: Students will understand the Importance of Tal and Lehra in Kathak Dance and Advantages of Dance in Physical fitness.

CO 6: Students will acquire Knowledge of the Historical background of the Folk Dances of Rajasthan and Importance of Vocal & Instrumental Music with Dance.

CO 7: Students will learn the notation of Jhaptaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Salami, Tora, Paran and Chakardar Paran

CO 8: Students will be able to describe Jhaptal ,Ektal, Dadra with the notation of their Thekas in Ekgun, Dugun, Tigun and Chaugun Layakaries

CO 9: Practical demonstration of Teen Taal and Jhaptaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit and Padhant of whole material by hand in all Taal.

CO 10: Students will be able to demonstrate Punjabi and rajasthani Folk Dance and to play Nagma of Teen Taal on Harmonium in Teentaal & Jhaptaal and theka of Dadra Taal on tabla.

Semester-III

CO 1: Students will learn about Tandava and Lasya and acquire knowledge of characteristics of Kathak Nritya

CO 2: Students will acquire detailed knowledge of Samyukta Hastas according to Abhinaya Darpan with their uses in Dance.

CO 3: Students will acquire the detailed Knowledge of Kathakali Dance with its historical background, style costumes and music etc.

CO 4: Students will learn about the contribution of the Dance Gurus in their respective field of specialization.

CO 5: Students will understand the Relation of Dance with other fine arts.

CO 6: Students will acquire Knowledge of the Folk Dance of Uttar Pradesh.

CO 7: Students will learn the notation of Ektaal and Sooltaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit.

CO 8: Students will be able to describe Ektaal, Sooltaal, Choutaal with the notation of their Thekas in Ekgun, Dugun, Tigun and Chaugun Layakaries and notation of Nagma in Ektaal and Sooltaal.

CO 9: Practical demonstration of Ektall and Sooltaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit and Padhant of whole material by hand in all Taal.

CO 10: Students will be able to demonstrate Samyukta Hastas according to Abhinaya Darpan and to play theka of Ektaal on tabla.

Semester-IV

CO 1: Students will learn about Nritt, Nritya and Natya and acquire knowledge of different Gharanas of Kathak with their characteristics.

CO 2: Students will acquire detailed knowledge of Bharamari and Utpalavan Bhedas according to Abhinaya Darpan

CO 3: Students will acquire the detailed Knowledge of Odissi Dance with its historical background, style costumes and music etc.

CO 4: Students will learn about the contribution of the Dance Gurus in their respective field of specialization.

CO 5: Students will understand the relation Dance and Religion and The role of dance in Indian films.

CO 6: Students will acquire Knowledge of the Folk Dance of Himachal Pradesh.

CO 7: Students will learn the notation of Dhamar Taal and Roopak Taal with its: Tatkar in Thaah, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit.

CO 8: Students will be able to describe Dhamar Taal, Roopak Taal and Ada Choutaal with the notation of their Thekas in Ekgun, Dugun, Tigun and Chaugun Layakaries and notation of Nagma in DhamarTaal and Roopak Taal.

CO 9: Practical demonstration of Dhamar Taal and Roopak Taal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit and Padhant of whole material by hand in all Taal.

CO 10: Students will be able to demonstratee Holi Leela Gat Bhava. and to play theka of Dhamar Taal and Roopak Taal on tabla.

Semester-V

CO 1: Students will acquire knowledge of Bhav, Sthai Bhav, Vibhav, Anubhav and Sanchari Bhav.

CO 2: Students will acquire detailed knowledge of Gati Bhedas and Sthanak Bhedas according to Abhinaya Darpan.

CO 3: Students will acquire the detailed Knowledge of Bharat Natyam with its historical background, style, costume and music etc.

CO 4: Students will learn about the Origin of Taal and its ten Prans

CO 5: Students will understand the Importance of background music in Dance

CO 6: Students will acquire Knowledge of the Folk Dance of Himachal Pradesh, Kathak and Natwari Nritya.

CO 7: Students will learn the notation of Basant Taal and Ada – Choutaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran Kavi and pramelu.

CO 8: Students will be able to describe Basant Taal and Ada – Choutaal with the notation of theirThekas in Ekgun, Dugun, Tigun and Chaugun Layakaries and notation of Nagma in DhamarTaal and Roopak Taal.

CO 9: Practical demonstration of Basant Taal and Ada – Choutaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit and Padhant of whole material by hand in all Taal.

CO 10: Students will be able to demonstrate Gat – Bhav in Radha – Krishan leela. and to play theka of Ekeharva Taal on tabla.

Semester-VI

CO 1: Students will acquire knowledge of Abhinaya and its bhedasand Thumri in Kathak.

CO 2: Students will acquire detailed knowledge of Guru – Shishya parampara.

CO 3: Students will acquire the detailed Knowledge of Kuchipudi with its historical background, style, costume and music etc.

CO 4: Students will learn about Nayak – Nayika Bhedas.

CO 5: Students will understand the Importance Indian and Western Dance.

CO 6: Students will acquire Knowledge of the Folk Dance of Haryana

CO 7: Students will learn the notation of Pancham Swari and Teentaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paranand Kavit.

CO 8: Students will be able to describe Pancham Swari and Teentaal with the notation of theirThekas in Ekgun, Dugun, Tigun and Chaugun Layakaries.

CO 9: Practical demonstration of Pancham Swari and Teentaal with its: Tatkar in Ekgun, Dugun and Chaugun Layakaries, Thaat, Tehai, Amad, Salami, Tora, Paran, Chakardar Paran and Kavit and Padhant of whole material by hand in all Taal.

CO 10: Students will be able to demonstrate Kathak Choreography in Tarana and to play theka of JhapTaal on tabla.

HANS RAJ MAHILA MAHA VIDYALAYA

MAHATMA HANS RAJ MARG, JALANDHAR (PUNJAB) INDIA

FACULTY OF

COMMERCE AND MANAGEMENT

Program Outcomes (POs)

and

Course Outcomes (COs)

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Download HMV News Mobile App from Playstore/App Store

Post Graduate Department of Commerce and Management
Name of Programme: B.Com.
Programme Outcomes

The students will be able to

PO 1: acquire comprehensive knowledge of Marketing, Human Resource Management, Business and Corporate Law, Economics, Finance, Accounting, Management, Tax and several other branches of Commerce that includes Investment, Insurance, and Banking.

PO 2: develop and strengthen theoretical and applied aspects of commerce for preparing the students for higher education and research.

PO 3: equip with professional, inter personal, presentation and entrepreneurial skills to meet the requirements of business sector.

PO 4: enhance the analytical and decision making skills of the students which can help them in solving business problems in a dynamic environment.

PO 5: exercise professional skills, values, team spirit, and leadership to meet the challenges of life and business.

Programme Specific Outcomes

PSO 1: Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals as well as demonstrate knowledge in setting up a computerized set of accounting books

PSO 2: Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO 3: Leaners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.

PSO 4: Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

Course Outcomes

Semester-I

Paper: BCG 103 Financial Accounting

Students will be able to-

CO 1: understand the practical and theoretical knowledge of financial accounting.

CO 2: understand the applicability of accounting concepts, principles and conventions.

CO 3: apply the knowledge to prepare financial statements by understanding different capital and revenue items

CO 4: solve problems relating to final accounts of sole proprietor and various business agreements.

Paper: BCG 104 Business Organisation

Students will be able to-

CO 1: define different forms of organization and comparison of different business forms

CO 2: demonstrate various stock market operations, investors protection and its regulatory authorities.

CO 3: compare the nature, effect and causes of business combinations and its importance to industrial growth.

CO 4: explain the social responsibilities of the business and business ethics.

Paper: BCG 105 Business Communication

Students will be able to-

CO 1: understand the concept of communication in the business environment.

CO 2: Develop knowledge and skills in business writing.

CO 3: apply skills for effective interpersonal communications

CO 4: explain useful tips and strategies for clear communication and thus, assists in securing a good job coupled with carrier advancement in future.

Paper: BCG 106 Business Statistics

Students will be able to-

CO 1: understand meaning of statistics, basic statistical concepts and relevance of statistics in business.

CO 2: understand, calculate and interpret descriptive statistics such as measures of central tendency, dispersion, asymmetry, correlation, regression analysis, time series analysis and index numbers.

CO 3: understand and apply probability theory and theoretical probability distributions in business.

CO 4: develop understanding of various types of probability and non-probability sampling techniques and their selection for drawing sample.

Semester-II

Paper: BCG 203 Advance Financial Accounting

Students will be able to-

CO 1: apply their theoretical knowledge in practical working by learning tally - account creation and data entry.

CO 2: outline the important provisions of Partnership Act, 1932 with regard to preparation of its final accounts.

CO 3: solve various problems regarding maintenance of partnership accounts with special regard to its reconstitution.

CO 4: demonstrate the different methods of depreciation as a means of knowing true value of asset.

CO 5: solve accounting problems of small business through various systems of accounting.

Paper: BCG 204 Commercial Law

Students will be able to-

CO 1: understand the formation of a legally valid contract for a business.

CO 2: develop requisite skills to understand various case studies.

CO 3: analyze the real life case studies for practical applicability of legal rules.

CO 4: integrate the knowledge of commercial laws in business world.

Paper: BCG 205 Business Economics

Students will be able to-

CO 1: understand the concept of demand, law of demand, calculate and interpret elasticity of demand and develop knowledge regarding its significance in business, trade and government policies.

CO 2: understand and determine consumers' equilibrium.

CO 3: interpret and evaluate equilibrium of producers under different markets conditions.

CO 4: identify various market structures and discuss their implications for resource allocation

CO 5: differentiate between micro and macro concepts and objectives of economy.

CO 6: understand concept of national income, judge its importance apply and interpret different methods of measurement of national income in different sectors.

Paper: BCG 206 Functional Management

Students will be able to-

CO 1: demonstrate their conceptual skills, understanding and application of principles and functions of management.

CO 2: develop skills and ability to work in groups to achieve organizational goals and ability to lead teams.

CO 3: demonstrate their ability in applying the managerial concepts in real time problems.

CO 4: make a choice to adopt management as profession in future.

Semester-III

Paper: BCG 303 Corporate Accounting

Students will be able to-

CO 1: recall the basic accounting treatment of companies studied in SSC II.

CO 2: understanding of accounting treatment of various aspects of Companies, Banking Companies and Insurance Companies.

CO 3: apply this knowledge in solving practical questions of accounting.
CO 4: analyze the accounting information of the companies.

Paper: BCG 304 Company Law

Students will be able to-

CO 1: identify the principles of corporate law covered in the course.
CO 2: analyze the policy issues underpinning the corporate laws covered in the course.
CO 3: access, use, interpret complex statutory material to resolve corporate law problems and issues.
CO 4: apply the critical thinking required to bring about solutions to complex corporate law problems.

Paper: BCG 305 Financial Management

Students will be able to-

CO 1: to remember and understand both the theoretical & practical role of financial management in business corporations.
CO 2: analyse risk within context of financial decision making.
CO 3: analyse the different sources of finance and their cost.
CO 4: evaluate different sources of finance as well as investment proposals while deciding on optimal capital structure as well as while utilizing the funds raised in the business.

Paper: BCG 306 International Business

Students will be able to-

CO 1: understand the basic concepts of international finance, marketing and also the various environments in which international businesses operate.
CO 2: illustrate the unique issues and challenges faced by firms involved in international activities.
CO 3: analyse the risks and opportunities dispensed for global businesses and develop practical approach to frame effective strategies and take good business decisions.
CO 4: relate the impact of legal and regulatory compliance on a firm's trade inventiveness.

Paper: BCG 307 Business Environment

Students will be able to-

CO 1: define and understand the various nuances of the business environment.
CO 2: understand the role of environmental factors on the conduct of business in the country.
CO 3: identify the government rules & regulations affecting the business organizations and latest amendments in the current Budgets.
CO 4: appraise the data relating to various economic Policies & economic planning of India since inception.

Semester-IV

Paper: BCG 403 Goods and Service Tax

Students will be able to-

CO 1: explain the constitutional aspects and implementation of GST in India.
CO 2: list and analyse the benefits of Goods and Service tax.
CO 3: identify the taxable event under Goods and Service tax.
CO 4: assess the liability of paying Goods and Service tax.

Paper: BCG 404 Industrial Law

Students will be able to-

CO 1: understand the various laws relating to industrial environment.
CO 2: develop skills to apply the knowledge of various laws relating to factory, trade unions and workers' rights in real life situations.
CO 3: interpret the important causes and impact of industrial disputes.
CO 4: compile the important provisions of the working of Factories in India as per Law.

Paper: BCG 405 Principles and Practices of Banking and Insurance

Students will be able to-

CO 1: have comprehensive knowledge of the Indian banking and insurance structure.
CO 2: understand the various functions, rules and regulations of central & commercial Banks; and the Insurance Act 1938, LIC Act 1956, GIC Act 1972 & IRDA Act 1999.

CO 3: apply this knowledge effectively being as bank's customer and searching out the suitable insurance policy for them.

Paper: BCG 406 Cost Accounting

Students will be able to-

CO 1: understand basic concepts of cost accounting

CO 2: apply knowledge to solve practical problems and take managerial decisions

CO 3: determine total cost and profit of product/service/contract costing/process costing and formulate proposals

CO 4: analyze the reasons of variance in estimated and actual cost to minimize losses and maximize profits

Semester-V

Paper: BCG 503 Management Accounting

Students will be able to-

CO 1: have knowledge about- how to infer financial statements and then make use of the same inferences to support a decision.

CO 2: relate and classify various sources of raising funds along with plans to attain profit maximization.

CO 3: find and summarize appropriate information to construct the report to be provided to different users for taking effective decision.

CO 4: show the relationship of authority and responsibility and prove that ultimate responsibility cannot be avoided.

Paper: BCG 504 Direct Tax Law

Students will be able to-

CO 1: understand and acquire knowledge of basic concepts of Income tax and sources of income

CO 2: apply knowledge to solve practical problems and calculate tax liability

CO 3: determine Tax incidence on the basis of residential status

CO 4: identify and comply with the relevant provisions of the Income Tax Act and do tax planning

Paper: BCG 505 Auditing

Students will be able to-

CO 1: summarize the auditing standards and the general procedures required in conducting an audit

CO 2: understand the knowledge about appointment, rights, duties and responsibility and liabilities of an auditor.

CO 3: demonstrates the knowledge, skills, and attitudes to help them understand the various types of audit as well as the other current developments in auditing.

CO 4: analyse the processes involved in auditing as well as various audit tests and other assurance services.

Paper: BCG 511 Contemporary Accounting

Students will be able to-

CO 1: explain the various contemporary issues in accounting.

CO 2: understand the practical use of accounting standards in preparation of financial statements

CO 3: define the financial reports with respect to recent trends in published accounts.

CO 4: acquire skills to research and analyse complex contemporary financial accounting issues, and formulate well-reasoned and coherent arguments and reach well considered conclusions in relation to those issues.

Paper: BCG 512 Financial Market Operations

Students will be able to-

CO1: define recent developments in the financial markets.

CO2: construct instruments that are operational in the money market.

CO3: demonstrate the contribution of the financial market in the economic stability and development of a country.

CO4: analyze various trends and models applicable in financial markets

Paper: BCG 521 Banking Service Management

Students will be able to-

CO 1: have comprehensive knowledge of the Indian Banking Structure.

CO 2: understand the various functions, various services, rules and regulations of central & commercial banks.

CO 3: apply this knowledge effectively being as bank's customer.

Paper: BCG 522 Insurance Service Management

Students will be able to-

CO 1: learn about the documentation procedure involved in applying for insurance.

CO 2: understand the role and code of conduct for insurance agents and surveyors.

CO 3: apply the practical training to compute premiums and bonuses.

CO 4: interpret the procedure of claim settlement.

CO 5: have a deep insight into the impact of taxation, competition and regulation on the pricing of insurance products.

Paper: BCG 531 Computer Based Accounting

Students will be able to:

CO 1: identify the crucial role played by computers in accounting and business.

CO 2: analyze the policy issues concerning accounting software that is being used by business entities.

CO 3: develop knowledge regarding comparison of manual & computerized accounting.

CO 4: apply techniques of accounting packages for preparation of accounting statements.

Paper: BCG 532 E-Commerce

Students will be able to-

CO 1: have a comprehensive understanding of the E-Commerce, current and emerging business models, and the technology and infrastructure underpinnings of the business.

CO 2: apply E-Commerce concepts to help business grow.

CO 3: make innovative use of the E-Commerce to have competitive advantage over others.

Semester-VI

Paper: BCG 603 Operations Research

Students will be able to-

CO 1: have knowledge of concepts and tools of Operations Research.

CO 2: utilize analytical thought process to help develop modeling.

CO 3: understand mathematical techniques used in various areas of research.

CO 4: apply these techniques constructively to make effective business decisions.

Paper: BCH 604 Corporate Governance

Students will be able to-

CO 1: understand the iinfluence of corporate governance system on the performance of an organisation.

CO 2: discuss the moral and social responsibility dimensions of corporate governance after studying the concepts of whistleblowing, credit rating and insider trading

CO 3: compare the recommendations of various committees which depict the evolution of corporate governance.

CO 4: They will be able to critically apply understanding of corporate governance in real–world contexts and to develop the skills to build good leaders while following business ethics.

Paper: BCG-611 Portfolio Management

Students will be able to-

CO 1: define theoretical concept of portfolio management.

CO 2: demonstrate practical issues in the field of portfolio management

CO 3: construct efficient market hypothesis used in field of the subject.

CO 4: analyze market expectations and build strategic asset allocation.

Paper: BCG 612 Financial Services

Students will be able to-

CO 1: define the concept of the Indian financial system, markets, institution and financial services.

CO 2: understand the operations, role, functioning and regulatory guidelines regarding the different financial institutions.
CO 3: describe the various financial products, services, and strategies offered by the variety of financial services institutions.
CO 4: explain the recent developments in plastic money, impediments to growth of these services and their future scope.

Paper: BCG 621 Foreign Exchange Management

Students will be able to-
CO 1: Understand how the foreign exchange market operates
CO 2: Examine the organisation of foreign exchange market.
CO 3: Apply techniques that can be used to hedge foreign exchange risk
CO 4: Analyse the foreign exchange risk and risk management strategies

Paper: BCG 622 Risk Management and Insurance

Students will be able to-
CO 1: learn about the concept of risk and design a risk management program for a business organisation.
CO 2: know about insurance contracts and its provisions, and the basic features of property-liability insurance, life and health insurance.
CO 3: compare and contrast the role of insurance intermediaries.
CO 4: evaluate the different retirement and annuities plan for themselves as well as for their family.

Paper: BCG 632 E-Marketing

CO 1: understand the concept of E-Marketing and its various strategies,
CO 2: They will be able to analyze e-marketing issues & challenges; and customer satisfaction in this digital age.
CO 3: They will be able to apply this knowledge in studying the working of various e-commerce companies.
CO 4: evaluate various pricing strategies and implementation of a successful e-marketing mix.

Name of Programme: B.Com (Honours)
Course Outcomes

Group I Banking

Paper I: Banking and Financial System

Students will be able to-
CO 1: understand the structure of banking and financial system.
CO 2: know the procedural compliances by bank's functionality.
CO 3: identify the principles of lending and loan policy, basics of loan appraisal and the types of advances
CO 4: appraise the actions of central banks for the overall development of the economy.

Paper II: Electronic Banking and Risk Management

Students will be able to-
CO 1: have knowledge about various e-banking products and services.
CO 2: use different electronic fund transfer systems and technologies.
CO 3: analyse the various security issues to combat the e-banking frauds.
CO 4: analyse the risk management framework as well as measure and manage various risks with different statistical techniques

Paper III: Accounting for Bankers

Students will be able to-
CO 1: identify the relevance of accounting in banking sector.
CO 2: make use of bank's accounting information which further helps them in planning their investment
CO 3: discover various capital budgeting techniques for long period investment.

CO 4: evaluate the importance of computerised accounting in Indian banking sector

Paper IV: Bank Marketing

Students will be able to-

CO 1: relate the concept of marketing in banking sector
CO 2: identify and explain the importance of relation between loyalty and marketing of bank products
CO 3: construct the relation between favourable environment and marketing of bank product.
CO 4: examine the conceptual framework regarding marketing of financial and banking product.

Group IV

Paper I: Management of International Business Operation

Students will be able to-

CO 1: understand the nature, scope, structure and significance of International Business.
CO 2: identify the various factors of global business environment and evaluate the impact of world issues on an organization's international business opportunities.
CO 3: evaluate the impact of statutory and regulatory compliance on an organization's integrative trade initiatives.
CO 4: develop strategies to negotiate effectively within various cultural environments and to address the impact of ethics and social responsibility in international trade

Paper II: India's Foreign Trade

Students will be able to-

CO 1: identify the crucial role played by foreign trade and exchange control in India.
CO 2: analyze policy issues and factors affecting foreign investment.
CO 3: learn about regulatory framework for export and import transactions.
CO 4: understand about nature of transactions in foreign exchange market.

Paper III: International Financial Management

Students will be able to-

CO 1: learn about foreign exchange systems.
CO 2: get knowledge about calculation of foreign exchange rates.
CO 3: learn the various methods of measuring and managing country risk and political risk factors.
CO 4: get the knowledge about management and measurement of transaction exposures as well as operating exposures.
CO 5: apply risk hedging techniques like futures, options, forwards and swaps

Paper IV: International Marketing

Students will be able to-

CO 1: understand the contemporary issues in international marketing and acquire skills to suggest solutions for the same.
CO 2: define and illustrate the various strategies of entering into an international market
CO 3: make the modifications in marketing mix that a firm requires while entering the global market.
CO 4: acquire knowledge about the role and working of various international bodies and organisations like GATT, WTO, UNCTAD, IMF etc.
CO 5: analyse the foreign trade regulations as well as the problems faced by exporters in numerous aspects.

Name of Programme: BBA

Programme Outcomes

Students will be able to-

PO 1: develop the ability to understand the different areas of management such as marketing human resource , production operations and financial management.
PO 2: develop and strengthen theoretical and applied aspects of management for preparing the students for higher education and research.
PO 3: equip the students with professional, inter personal, presentation and entrepreneurial skills to administer business successfully.

PO 4: enhance the analytical and decision making skills of the students which can help them in the application of management theories and practices to solve business problems in a dynamic environment.

PO 5: exercise professional skills, values, team spirit, and leadership to meet the challenges of life and business.

PO 6: To demonstrate knowledge and understanding of the major theories relating to the field of business and developing realistic solutions to business problems by evaluating various policies of the government and laws and legislations relating to same.

Programme Specific Outcomes

PSO 1: Students can demonstrate the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.

PSO 2: Learners will be able to understand the features and roles of businessmen, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

PSO 3: The students will acquire the skills in the specialized fields of marketing, industrial relations, banking & insurance and international business.

PSO 4: Leaners will acquire the skills like effective communication, decision making, problem solving in day to day business affaires

Course Outcomes

Semester-I

Paper: BBA 103 Basic Accounting

Students will be able to-

CO 1: understand the concepts and conventions of accounting and accounting frame work.

CO 2: demonstrate knowledge of each step in the accounting cycle.

CO 3: apply their knowledge to prepare the financial statements of sole proprietor and company form of organisations

CO 4: identify the difference between manual accounting and computerised accounting

Paper: BBA 104 Business Organisation and Systems

Students will be able to-

CO 1: explain the concept of business, commerce and trade with reference the development in this field

CO 2: understand the various factors of environment affecting the business organisations.

CO 3: identify the different forms of business organisation working in India and find the suitable form, size to the various needs.

CO 4: demonstrate the importance of the ethical requirements of business activities

Paper: BBA 105 Managerial Economics-I

The students will be able to-

CO 1: analyse the basic concepts, nature and scope of managerial economics.

CO 2: explain fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.

CO 3: distinguish between traditional and modern theory of costs.

CO 4: compare and contrast different markets structure, their characteristics and short and long run equilibrium.

Paper: BBA 107 Business Communication

Students will be able to-

CO 1: relate to the various concepts and processes of business communication

CO 2: demonstrate necessary skills to handle day-to-day managerial responsibilities

CO 3: identify the gap between current level of communication skills and the expected industry standards

CO 4: develop and apply appropriate communication skills across setting, purpose and audience.

Semester-II

Paper: BBA 203 Business Laws

Students will be able to-

CO 1: understand the formation of a legally valid contract for a business.
CO 2: develop requisite skills to understand various case studies.
CO 3: analyze the real life case studies for practical applicability of legal rules.
CO 4: integrate the knowledge of commercial laws in business world.

Paper: BBA 204 Principles of Management

Students will be able to-

CO 1: understand and acquire knowledge of management conceptual framework
CO 2: apply knowledge to learn the application of the principles in an organization.
CO 3: evaluate the global context for taking managerial actions of planning, organizing and controlling.
CO 4: specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances.

Paper: BBA 205 Managerial Economics-II

The students will be able to-

CO 1: define the concepts of Macroeconomics, National Income aggregates and compare the methods of measurement of national income.
CO 2: apply the classical and modern principles of Macro Economics in explaining the behaviour of aggregate variables such as consumption, investment, saving, employment and money supply at national and global level.
CO 3: analyse the problem of inflation and examine its causes and consequences.
CO 4: elaborate the working of multiplier and formulate policy recommendations to counter business cycles.

Paper: BBA 206 Computer Based Accounting System

Students will be able to-

CO 1: understand the maintenance of groups and accounts as well as about codification and hierarchy of accounts.
CO 2: demonstrate about various types of accounting software used by business entities.
CO 3: understand database designing through ER model and structured query language.
CO 4: use tally in maintenance of accounts of the firms.
CO 5: analyse the financial statements of a firm in tally.

Paper: BBA 207 Fundamentals of Banking

Students will be able to-

CO 1: understand the concept, evolution and functionality of the banks
CO 2: analyze the Indian banking system and its recent trends.
CO 3: integrate processes according to the functioning of Reserve Bank of India and commercial banks in Indian banking system and
CO 4: analyze the dimensions of banker customer relationships.

Paper: BBA 303 Statistics for Business

The students will be able to-

CO 1: understand the role, scope and functions of Statistics and demonstrate the basic statistical concepts such as data collection, classification, statistical series, tabular, diagrammatic and graphical representation of data.
CO 2: illustrate matrix operations, determinants, minors, cofactors, inverse of a matrix, matrix method, Cramer's rule to solve system of equations and rank of a matrix.
CO 3: use and apply the measures of central tendency, dispersion, skewness and kurtosis.
CO 4: analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients and trend values in time series analysis.
CO 5: construct index numbers for different purposes and test the consistency.
CO 6: develop theoretical distributions by applying the concepts of probability.

Semester-III

Paper: BBA 304 Fundamentals of Human Resource Management

Students will be able to-

CO 1: demonstrate the role of human resource management in an organization

CO 2: develop an overview on various functions and processes of human resource management.

CO 3: identify the human resource needs of an organization and plan accordingly.

CO 4: utilize the knowledge to gain competitive advantage through people

Paper: BBA 305 Fundamentals of Marketing Management

Students will be able to-

CO 1: demonstrate the core concepts of marketing and the role of marketing in business and society.

CO 2: identify suitable product, pricing, distribution and marketing communication strategies for a brand to achieve the Marketing objective

CO 3: develop marketing strategies based on product, price, place and promotion objectives

CO 4: understand intricacies of marketing and thus, help them to adopt marketing as a profession in future.

Paper: BBA 306 Indian Financial System

Students will be able to-

CO 1: understand the components of Indian Financial System.

CO 2: compare and contrast various instruments of money market and capital market.

CO 3: outline the role of regulatory agencies in growth of Indian financial system

CO 4: explain the working and eligibility criterion of various functionaries on stock exchange.

Paper: BBA 307 Management Accounting

Students will be able to-

CO 1: understand the financial statements and then make use of the same inferences to support a decision.

CO 2: relate and classify various sources of raising funds along with plans to attain profit maximization.

CO 3: summarize appropriate information to construct the report to be provided to different users for taking effective decision.

CO 4: show the relationship of authority and responsibility and prove that ultimate responsibility cannot be avoided.

Semester-IV

Paper: BBA 403 Financial Management

Students will be able to-

CO 1: relate and classify various sources of raising funds along with plans to attain profit maximization.

CO 2: find and compare different forms of capital so that the best capital structure can be selected.

CO 3: recall and illustrate the factors that are used to decide the dividend and plan the various investment decisions.

CO 4: explain the capital investment decision and identify cash flows for capital budgeting project and apply various methods to analyze projects and make interpretations.

Paper: BBA 404 Production and Operations Management

Students will be able to:

CO 1: identify the crucial role being played by production management in success of enterprises.

CO 2: analyse policy issues and factors affecting production management of a concern.

CO 3: recognize the importance of operations management in solution of business problems.

CO 4: apply various techniques of production management for better decision making.

Paper: BBA 405 Business Environment

Students will be able to-

CO 1: understand the nature of business environment and its various factors.

CO 2: conduct an environmental scan to evaluate the impact of various issues on an organization's business opportunities.

CO 3: discover various policy perspectives in regulating the business environment.

CO 4: identify state policies economic legislations and economic reforms laid by the government

Paper: BBA 406 Operations Research

Students will be able to-

CO 1: have knowledge of concepts and tools of Operations Research.
CO 2: utilize analytical thought process to help develop modeling.
CO 3: understand mathematical techniques used in various areas of research.
CO 4: apply these techniques constructively to make effective business decisions.

Paper: BBA 407 Fundamentals of Insurance

Students will be able to-

CO 1: have comprehensive knowledge of the Indian Insurance Structure.
CO 2: understand the various functions, rules and regulations of the Insurance Act 1938, LIC Act 1956, GIC Act 1972 & IRDA Act 1999.
CO 3: apply this knowledge effectively in searching out the suitable Insurance policy for them.

Semester-V

Paper: BBA 503 Company Law

Students will be able to-

CO 1: identify the principles of corporate law covered in the course.
CO 2: analyze the policy issues underpinning the corporate laws covered in the course.
CO 3: access, use, interpret complex statutory material to resolve corporate law problems and issues.
CO 4: apply the critical thinking required to bring about solutions to complex corporate law problems.

Paper: BBA 504 Entrepreneurship and Small Business

Students will be able to-

CO 1: examine the characteristics of an entrepreneur as well their role in the economic development of the country
CO 2: build insights into the management of small scale business organisations
CO 3: develop business plan and foreseeing the entry barriers to the industry
CO 4: analyse the role of government and non-government organisations in promotion of entrepreneurship

Paper: BBA 505 Cost Accounting

Students will be able to-

CO 1: understand basic concepts of cost accounting
CO 2: apply knowledge to solve practical problems and take managerial decisions
CO 3: determine total cost and profit of product/service/contract costing/process costing and formulate proposals
CO 4: analyse the reasons of variance in estimated and actual cost to minimize losses and maximize profits

Paper: BBA 511 Consumer Behaviour

Students will be able to-

CO 1: have comprehensive understanding of consumer buying behavior.
CO 2: recognize different factors affecting consumer behaviour.
CO 3: apply this knowledge in analyzing their own buying behaviour.

Paper: BBA 512 Advertising and Sales Management

Students will be able to-

CO 1: list various marketing concepts for comparing & contrasting the best strategy to solve the important issues that require improvement.
CO 2: select and classify the developed sources of media to build relationships with prioritized segment of customers to change the outlook towards them
CO 3: show and explain the importance of interest in categorizing the right job to determine the maximum happiness and outcome.
CO 4: experiment with online trends to make use of the same in selecting cost effective alternative.

Semester-VI

Paper: BBA 603 Income Tax

Students will be able to-

CO 1: understand and acquire knowledge of basic concepts of Income tax and sources of income

CO 2: apply knowledge to solve practical problems and calculate tax liability

CO 3: determine Tax incidence on the basis of residential status

CO 4: identify and comply with the relevant provisions of the Income Tax Act and do tax planning

Paper: BBA 604 Fundamental of Capital Markets

Students will be able to-

CO 1: develop an understanding and importance of financial derivatives and institutional structure of the market.

CO 2: explain the role of capital market in Indian financial system and its regulatory environment.

CO 3: describe the trading mechanism in the stock market

CO 4: compare the various instruments of capital market

Paper: BBA 611 Service Marketing

Students will be able to-

CO 1: understand and acquire knowledge of evolution and conceptual framework of service marketing

CO 2: explain the role of internet in service industry

CO 3: determine role of personnel, distribution strategies, physical evidence, blueprinting and promotional campaigns in delivery of services.

CO 4: identify measures for measuring service quality and fill the service gaps.

Paper: BBA 612 E- Marketing

CO 1: Students will have comprehensive knowledge of E-Marketing and its various strategies,

CO 2: They will be able to analyze e-marketing issues & challenges; and customer satisfaction in this digital age.

CO 3: They will be able to apply this knowledge in studying the working of various e-commerce companies.

Name of Programme: B.Voc (Banking and Financial Services)

Program Outcomes

Students will be able to-

PO 1: practically understand and apply the knowledge relating to the requirements of industry by acquiring a judicious mix of professional skills in the area of banking and financial services (including international finance) along with suitable general education component catering to the areas of different branches of management, entrepreneurship, business ethics, accounting, economics etc.

PO 2: gain knowledge regarding operations of financial markets, different avenues for investment of funds, risks associated with it and understand the techniques for their analysis and evaluation.

PO 3: have an opportunity to serve the industry by having exit points at different levels.

PO 4: acquire knowledge about the business environment by understanding the major policies of the government and laws and legislations (both general laws as well as relating to banking and financial services)

PO5: develop analytical and decision making skills by gaining knowledge of different tools and techniques of analysis which can help them to solve business problems in a dynamic environment.

Program Specific Outcomes

PSO 1: Students will be able to study and understand the general as well as practical skills pertaining to the area of banking and financial services.

PSO 2: They will be able to study the banking and financial services in a simulated environment and also undergo industrial training based on the same.

PSO 3: They will be able to acquire the skills in the specialized fields of marketing, industrial relations, banking & insurance and international business.

PSO 4: Leaners will acquire the skills like effective communication, decision making, problem solving in day to day business affaires

Course Outcomes

Semester-I

Paper: BVC 103 Fundamentals of Management

Students will be able to-

CO 1: understand and acquire knowledge of management conceptual framework

CO 2: apply knowledge to learn the application of the principles in an organization.

CO 3: specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances

CO 4: develop the ability to work in teams and identify the key competencies needed to be an effective manager

Paper: BVC 104 Principles and Practice of Banking

Students will be able to-

CO 1: demonstrate the concept, evolution and types of banks

CO 2: analyse the role and functions performed by the banks in the economy

CO 3: identify the role of RBI being apex body and as a regulator of all the banks

CO 4: analyze the dimensions of banker customer relationships

Paper: BVC 105 Principles and Practices of Insurance

Students will be able to:

CO 1: identify the crucial role played by insurance sector in Indian financial system.

CO 2: understand the various concepts of life insurance and general insurance.

CO 3: analyse the policy issues concerning the various types of insurance policies used by different persons in different situations.

CO 4: simplify various risk patterns by understanding importance of various types of insurance policies.

Paper: BVC 106 Indian Financial System

Students will be able to-

CO 1: understand the components of Indian Financial System.

CO 2: compare and contrast various instruments of money market and capital market.

CO 3: outline the role of SEBI in investor protection.

CO 4: explain the working and eligibility criterion of various functionaries on stock exchange.

Paper: BVC 107 Banking Operation Simulation

Students will be able to-

CO 1: understand the techniques of credit control and the methodology of credit creation.

CO 2: understand the principles of lending and loan policy, basics of loan appraisal and the types of advances.

CO 3: take part in the procedural formalities involved in opening the account and filling up different bank forms and documents like pay in slip, withdrawal forms and cheques, internet banking.

CO 4: examine the role of different techniques of risk management.

Semester-II

Paper: BVC 203 Managerial Economics

The students will be able to-

CO 1: feature out the basic concepts, nature and scope of managerial economics.

CO 2: explain fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.

CO 3: analyse the elasticity of demand, its meaning, types, degrees, methods of measuring, factors determining elasticity of demand and its importance.

CO 4: distinguish between traditional and modern theory of costs.

CO 5: compare and contrast different markets structure, their characteristics and short and long run equilibrium.

Paper: BVC 204 Financial Services

Students will be able to-

CO 1: understand the various kinds of financial services and their role in the Indian financial system.
CO 2: explain the structure and regulation of merchant banking in India.
CO 3: compare different types of mutual funds.
CO 4: explain the process of dematerialization and rematerialization will be explained to the students.

Paper: BVC 205 Legal and Regulatory Aspects of Banking

Students will be able to-

CO 1: understand the legal and regulatory measures affecting the working of banks in India
CO 2: demonstrate the process of banking, products offered by them and relation with different stakeholders with reference to particular acts passed in India
CO 3: identify the special rules to be complied by banks while rendering the services
CO 4: relate the provisions of different acts passed in India with operations of banking sector

Paper: BVC 206 Mutual Funds

Students will be able to-

CO 1: understand the role of mutual fund in Indian financial market
CO 2: explain the regulatory and legal environment governing the working of mutual fund in India
CO 3: categorise and compare the different mutual fund schemes
CO 4: use different measures of risk and return to invest in mutual fund

Semester-III

Paper: BVC 301 Business Statistics

The students will be able to:

CO 1: explain the functions, scope and limitations of statistics.
CO 2: evaluate various types of averages – Arithmetic Mean (Simple and Weighted), Median and Mode.
CO 3: solve and build Regression equations.
CO 4: solve and apply both weighted and unweighted Index Numbers.
CO 5: estimate trends using graphical method, semi average method, moving averages method and method of least squares for linear path.
CO 6: illustrate and solve simple applications of Probability based on addition and multiplication theorem of probability.

Paper: BVC 302 Business Laws

Students will be able to-

CO 1: understand the formation of a legally valid contract for a business.
CO 2: develop requisite skills to understand various case studies.
CO 3: explain the important provisions of Negotiable Instruments Act
CO 4: integrate the knowledge of commercial laws in business world.

Paper: BVC 303 Basic Accounting for Financial Manager + Tally

Students will be able to-

CO 1: understand the concepts and conventions of accounting and accounting frame work.
CO 2: demonstrate knowledge of each step in the accounting cycle.
CO 3: apply their knowledge to prepare the financial statements of sole proprietor and company form of organisations
CO 4: apply their theoretical knowledge in practical working by learning tally - account creation and data entry.

Paper: BVC 304 Operational Risk Management

Students will be able to-

CO 1: understand the governance structures, systems, procedures and cultural aspects necessary for an organization to successfully manage operational risk.
CO 2: identify the methods to manage an organization's risk, risk optimization, management of market risk, credit risk, operational and other risk.
CO 3: demonstrate the approaches available to banks under Basel III for the calculation of regulatory capital for operational risk.

CO 4: explain the range of financial and finance related risks faced by financial organizations.

Paper: BVC 305 Financial Statement Analysis

Students will be able to-

CO 1: analyze different types of financial statements.
CO 2: understand the concept of optimum credit policy and its various components.
CO 3 explain the objectives of inventory management and selective inventory control techniques such as ABC, VED, JIT to students.
CO 4: explain the concept and importance of adequate working capital.

Paper: BVC 306 Bank Credit Management

Students will be able to-

CO 1: identify the crucial role played by credit management in success of banking business.
CO 2: understand the various concepts of credit management used by banks and financial institutions.
CO 3: analyse the policy issues concerning the various types of credit policies used by banks for efficient management of its operations.
CO 4: simplify liquidity crises by application of various techniques of credit management.

Semester-IV

Paper: BVC 401 Business Ethics and Corporate Social Responsibility

Students will be able to-

CO 1: understand the ethical components for managerial decision making in organization.
CO 2: explain the concept of corporate social responsibility in business organization
CO 3: apply general ethical principles to particular cases or practices in business
CO 4: identify the role and importance of corporate governance

Paper: BVC 402 Business Environment

Students will be able to-

CO 1: analyse the Concept, Importance and Inter relationship between environment and business.
CO 2: distinguish between different Types of Environment
CO 3: analyse Nature and impact of culture on business
CO 4: explore the Economic roles of government.
CO 5: understand Economic Environment its Nature and components.

Paper: BVC 403 Entrepreneurship Development

Students will be able to-

CO 1: examine the characteristics of an entrepreneur as well their role in the economic development of the country
CO 2: build insights into the management of small scale business organisations
CO 3: develop business plan and foreseeing the entry barriers to the industry
CO 4: demonstrate the process of entrepreneurship and the institutional facilities available to an entrepreneur in India

Paper: BVC 404 Investment Management

Students will be able to-

CO 1: make use time value of money to plan their investments.
CO 2: compare the practical dimensions of risk involved in the stock market investment
CO 3: build a systematic approach for estimating the present and future worth of stock to economic industry company analysis
CO 4: evaluate the various methods adopted by technical analysts to study the stock price movement.

BVC 405 Market Risk Management

Students will be able to:

CO 1: identify the crucial role played by market risk management for success of investment decisions.
CO 2: analyse the policy issues and factors affecting market risk.
CO 3: understand the process that can be used to identify measure & report market risk.
CO 4: recognize the importance of market risk management including measurement and key controls.

Paper: BVC 406 Financial Market Operations

Students will be able to-

CO 1: explain the functioning of Indian financial market.
CO 2: illustrate the recent developments in the Indian financial system.
CO 3: identify how an investor goes about buying and selling the stocks.
CO 4: discover the major stock exchanges and their trading pattern
CO 5: determine the role of SEBI as regulator in the Indian financial market.

Semester-V

Paper: BVC 501 Financial Management

Students will be able to-

CO 1: define both the theoretical & practical role of financial management in business corporations to the students
CO 2: identify the importance of various decision making areas of financial management by understanding importance of risk within context of financial decision making.
CO 3: choose an appropriate capital structure by analysing the different sources of finance and their cost.
CO 4: outline the different aspects of working capital management in the business.

Paper: BVC 502 Operations Management

Students will be able to-

CO 1: understand the concept of Operations Management and Productivity.
CO 2: identify the alternate managerial choices to reach the optimal solutions
CO 3: solve and analyze the problems using different techniques.
CO 4: develop suitable material handling principles and practices in the operations.

Paper: BVC 503 Organisational Behaviour

Students will be able to-

CO 1: understanding of human behaviour in the workplace from an individual, group, and organizational perspective.
CO 2: evaluate personality types, perception and learning process on human behaviour
CO 3: recognize the application of motivational theories in practical terms
CO 4: evaluate the appropriateness of various leadership styles and conflict management strategies used in organizations

Paper: 504 Security Analysis

Students will be able to-

CO 1: define the term investment tied in with discussion of applicable techniques.
CO 2: understand the various strategies followed by investment practitioners
CO 3: demonstrate various valuation models used in market.
CO 4: Identify, formulate and solve investment problems.

Paper: BVC 505 Treasury Management

Students will be able to:

CO 1: identify the crucial role played by treasury manager in cash management of a concern.
CO 2: analyse the policy issues concerning the various treasury policies of a concern.
CO 3: recognize the importance of treasury management in solution of business problems.
CO 4: apply the various tools & techniques of treasury management in effective decision making.

Paper: BVC 506 E-Banking

Students will be able to-

CO 1: understand the various types of e banking and compare traditional banking with e banking.
CO 2: examine the working of different electronic fund transfer system such as NEFT, RTGS and SWIFT.
CO 3: have thorough understanding of the regulatory framework of RBI group in internet banking and risk and security aspects of e banking.
CO 4: outline impact of information technology on banks.

CO 5: identify the concept of disaster management in e-banking and information system audit

Semester-VI

Paper: BVC 601 Human Resource Management

Students will be able to:

CO 1: identify the crucial role played by proper management of human resources which is integral for growth of an organisation.
CO 2: analyse the policy issues & factors concerning human resources of a concern.
CO 3: recognize the various techniques used for overall development of human resources.
CO 4: apply various tools & techniques for effective decision making.

Paper: BVC 602 Marketing of Financial Services

Students will be able to-

CO 1: define, explain and illustrate some of the frameworks and approaches that are helpful in marketing financial services
CO 2: discuss to position value propositions, products and brands in customers' minds.
CO 3: develop new products (goods and services) that add value to consumers and firms.
CO 4: identify the factors affecting the pricing decision of financial products.

Paper: BVC 603 Financial Risk Management

Students will be able to-

CO 1: identify the pivotal role played by financial risk associated with investment of funds & tools for management of risk.
CO 2: analyse the practical aspects about management of financial risk & identify the best avenues for investment of surplus funds.
CO 3: learn about various financial risk associated with investment of funds & tools for management of risk.
CO 4: have the understanding of trading process of various instruments.

Paper: BVC 604 International Financial Management

Students will be able to-

CO 1: understand different components of foreign exchange market.
CO 2: evaluate different theories of exchange rate determination.
CO 3: outline the parity conditions in international trade.
CO 4: analyse various types of exposures in international trade.

Paper: BVC 605 International Banking

Students will be able to-

CO 1: demonstrates how international banking operations are being done.
CO 2: list the role of international financial institutions for promoting international trade.
CO 3: elaborate the practical relevance to deal in international financial market.
CO 4: apply critical thinking skills to Complex international banking issues

Paper: BVC 606 Portfolio Management

Students will be able to-

CO 1: define major portfolio management concepts for making investments in various securities
CO 2: compare the different investment instruments available to them for taking investment decisions.
CO 3: build the knowledge of various equity and bond portfolio management strategies to revise the portfolio
CO 4: apply techniques adopted to minimise the risk

Name of Programme: M.Com

Programme Outcomes

Students will be able to-

PO 1: apply the knowledge of conventional as well as contemporary issues in the field of accounting, finance, human resource management, marketing, banking and insurance, tax planning, business environment to solve complex business problems.

PO 2: identify, formulate, review literature and substantiate the decision making process through modeling and data analysis in the field of research.

PO 3: demonstrate knowledge and understanding of the major theories relating to the field of commerce and business and developing realistic solutions to business problems by evaluating various policies of the government and laws and legislations relating to same.

PO 4: understand, examine, and evaluate the impact of latest technological developments in the field of commerce.

PO 5: create, select, and apply the appropriate techniques for evaluating the economic viability of business enterprises.

PO 6: develop and enhance the entrepreneurial and employability skills of the students in the field of teaching, research, consultancy, accountancy, and corporate sector.

Programme Specific Outcomes

PSO1: Students will get an extreme and rigorous base for teaching, research and allied business administration which prepares them for research and teaching.

PSO2: Students can enhance their communication and presentation skills aimed at helping them to develop independent logical thinking and facilitate personality development

PSO3: The students will acquire the skills in the specialized fields of marketing, accounting and business studies.

PSO4: Learners will be able to understand the principles of accounting in detail with special focus on application oriented accounting methods.

Course Outcomes

Semester-I

Paper: MC-101 Managerial Economics

The students will be able to-

CO 1: understand and determine consumers' equilibrium through cardinal or ordinal utility analysis.

CO 2: analyse and evaluate equilibrium of producers under different markets conditions.

CO 3: identify various market structures and discuss their implications for resource allocation

CO 4: evaluate various factors responsible for rise in consumption, national income and apply different methods of measurement of national income in various sectors.

CO 5: identify causes of inflation and policy measures needed to curb it.

Paper: MC-102 Statistical Analysis for Business

Students will be able to-

CO 1: understand and analyse process of collection data, and their sources.

CO 2: develop understanding and justification for choice of various types of probability and non-probability sampling techniques, and the importance of randomization.

CO 3: understand and apply probability theory and theoretical probability distributions in business and research.

CO 4: design questionnaire, conduct pilot survey and pre testing of questionnaire.

CO 5: use sample statistics to test the hypothesis regarding population and estimate the population parameters and to make judgments about the population especially in business context.

CO 6: select appropriate statistical techniques for summarizing, displaying, comparing, analysing and interpreting business data.

Paper: Management Principles and Organization Behaviour MC 103

Students will be able to-

CO 1: imbibe conceptual knowledge of management and organization behaviour for analyzing the opportunities and challenges

CO 2: analyze the complexities pertaining to leadership styles and motivation techniques associated with management of individual behaviour in the organization.

CO 3: recognize, differentiate and assess for an individual, the concept of values, attitudes, personality, emotions and emotional intelligence.

CO 4: demonstrate how the organizational behaviour enables them to synthesize related information and evaluate options for the most logical and optimal solution such that they would be able to predict and control human behaviour.

Paper: Business Environment MC 104

Students will be able to-

CO1: classify the internal as well as external environment affecting any business organization.

CO2: identify various govt. rules & regulations and Policies relating to business.

CO3: draw inferences about the latest amendments in the current Budgets.

CO4: appraise the data relating to various economic policies & economic Planning of India since inception.

CO5: propose the limitations of various laws and suggestions for the improvement of the policies framed by our govt.

Paper: Management Accounting and Control System MC 105

Students will be able to-

CO 1: obtain knowledge and understanding of models and methods relating to reporting, communication, decision making and accountability in the management control area.

CO 2: evaluate the various management control systems and management accounting practices

CO 3: analyse effective application of subject knowledge to diagnose and solve organizational problems and develop optimal managerial decisions.

CO4: to examine the performance on the basis of evaluation parameters of enterprise in terms of expenses, control systems and pricing

Semester-II

Paper: Corporate Financial Accounting and Auditing MC 201

Students will be able to-

CO 1: understand corporate accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.

CO2: identify the conceptual aspect of corporate accounting.

CO 3: to evaluate the nature, purpose and scope of an audit and the legal, regulatory and ethical framework for auditing.

CO 4: identify and apply the procedures required to evaluate control risk, including communication of the weaknesses, impacts and professional recommendations to those charged with governance and management

Paper: Financial Management MC 202

Students will be able to-

CO1: define the various sources from which funds can be raised in a business and the ways to use these funds in an optimum way.

CO2: explain concept of financial planning so as to become good financial Managers.

CO3: construct framework of various projects which may help them in their future career.

CO4: do cost-benefit analysis of each project, evaluation of the proposals & to take good decision – making on financial matters.

Paper: Research Methodology MC 203

Students will be able to-

CO 1: critically assess, select and design appropriate research problem, research design and research process to achieve research objective.

CO 2: assess critically various methods like literature study, case study, structured surveys, in depth interviews, focus group interviews.

CO 3: compare, evaluate and design various types of measurement and scaling techniques.

CO 4: analyse and apply the process of collection, screening, transformation and analysis of data in research.

CO 5: calculate, present, and discuss descriptive and inferential statistics.

CO 6: understand, evaluate, apply and test multivariate analysis techniques such as regression analysis, factor analysis, discriminant and logistic analysis.

Paper: Marketing Management MC 204

Students will be able to-

CO1: demonstrates the need, importance and process of marketing planning and control.

CO2: identify core concepts of marketing and the role of marketing in business and society.

CO3: develop marketing strategies based on product, price, place and promotion objectives.

CO4: design creative solutions to marketing problems.

Paper: Human Resource Management MC 205

Students will be able to:

CO1: understand the concept of human resource management and its relevance in organizations.

CO2: develop necessary skills set for application of various HR issues.

CO3: to analyze the strategic issues and strategies required to recruit, select and develop manpower resources.

CO4: to integrate the knowledge of HR concepts to take correct business decisions

Semester-III

Paper: Banking and Insurance Services MC 301

Students will be able to-

CO 1: appraise the structure of banking system.

CO 2: evaluate the innovations in banking.

CO 3: evaluate the procedural formalities related to getting loan.

CO 4: elaborate the legal provisions applicable to Insurance sector.

CO 5: explain the calculation of premium of different insurance plans.

Paper: Security Analysis and Portfolio Management MC 311

Students will be able to-

CO1: define the term investment tied in with discussion of applicable techniques.

CO2: demonstrate various valuation models used in market.

CO3: construct different approaches to portfolio concepts.

CO4: analyze the concept of Capital market theory and associated models.

Paper: Contemporary Accounting MC 312

Students will be able to-

CO1: examine the effect of contemporary issues in accounting,

CO2: acquire skills to research and analyse complex contemporary financial accounting issues, and formulate well-reasoned and coherent arguments and reach well considered conclusions in relation to those issues.

CO3: critically analyse a selected contemporary issue in financial accounting and to communicate effectively in writing.

Paper: Consumer Behaviour MC 351

Students will be able to-

CO1: define the conception of consumer behaviour and reveal its importance in the context of marketing.

CO2: identify factors that influence consumer behaviour.

CO3: examine the consumer decision-making process and

CO4: determine the positioning strategy according to consumer characteristics and behaviour and correlate the marketing strategies as per behavior patterns.

Paper: Retail Management MC 352

Students will be able to-

CO 1: recall about the model of Retail Sector and make use of the same in discovering and combining to attain new business opportunities.

CO 2: experiment with online trends to make use of the same in selecting cost effective alternative.

CO 3: to organize the inputs in an appropriate setup to take part in the market and gain competitive edge over others.

CO 4: to list the various pricing options to summarize and build a business plan that marks towards maximizing of customer base.

Semester-IV

Paper: International Accounting MC 401

Students will be able to-

CO 1: explain the concept of international accounting, analyze and assess its peculiarities and importance from the perspective of the processes of globalization and integration.

CO 2: identify and understand differences of national accounting systems and reasons of such differences.

CO 3: explain, analyze and assess theoretical and practical aspects of accounting harmonization and convergence.

CO 4: study and assess content of International Financial Reporting Standards (IFRS and peculiarities of alternative accounting and reporting methods.

Paper: E-Commerce MC 402

Students will be able to-

CO 1: appraise the goals of e commerce.

CO 2: evaluate the working of various e business models of e commerce.

CO 3: choose from various methods of online payment.

CO 4: examine the security and legal aspects of e commerce

CO 5: appraise emerging trends in e business

Paper: International Financial Management MC 411

Students will be able to-

CO 1: understand the different kinds of monetary systems.

CO 2: evaluate different theories of exchange rate determination.

CO 3: understand the parity conditions in international trade.

CO 4: analyze various types of exposures in international trade

Paper: Financial Markets and Financial Services MC 412

Students will be able to-

CO1: relate the working of financial institutions and markets both individually as an interlinked system.

CO2: demonstrate functioning and need for regulation of different types of financial markets and the implications of the same on society.

CO3: identify pivotal role of banking in a financial system and the reasons for it being among the most tightly regulated industries in the world.

CO4: acquire analytical skills in the money and capital market in the context of raising medium and long term funds.

Paper: Corporate Tax Law and Planning MC 413

Students will be able to:

CO1: identify the difference between tax planning, tax avoidance, tax evasion.

CO2: apply various approaches and ways to minimize corporate tax liability within legal framework while taking advantage of deductions, exemptions, rebates and concessions provided under Income Tax Act.

CO3: evaluate various management decisions from tax point of view.

CO4: analyze tax issues relating to business restructuring practices.

Name of Programme: Post Graduation Diploma in Business Management

Program Outcomes

PO1: To enable the students to appraise and inspect the functioning of local and global business environment and society.

PO2: To enable the students to analyse the various branches of management such as marketing management, human resources management, production planning and control.

PO3: To make the students well versed with the business environment and the various laws related to the business.

PO4: To enhance the computer programming skills of the students.

Programme Specific Outcomes

PSO1: Students will be able to have an understanding of economic, legal and social environment of business which can help them to identify potential business opportunities for entrepreneurial purpose.

PSO2: Student can work in diverse teams in different roles under dynamic business environment by understanding organizational behavior and can take up challenging leadership positions.

PSO3: Students can develop effective oral and written communication especially in business applications, with the use of appropriate technology (business presentations, digital communication, social network platforms and so on).

Course Outcomes

Semester-I

Paper: Management and Organisational Behaviour PGDBM 101

Students will be able to-

CO 1: demonstrate the knowledge and understanding of concepts of management and organizational behavior.

CO 2: apply relevant contemporary theories, concepts and models in order to analyze organizational environments, conflicts and issues.

CO 3: analyse the complexities pertaining to leadership styles and motivation techniques associated with the management of individual behaviour in the organisation.

CO 4: recognize, differentiate and assess for an individual, the concept of values, attitudes, personality, emotions and emotional intelligence.

Paper: Business Economics and Environment PGDBM 102

Students will be able to-

CO 1: understand tools and techniques of managerial economics to enable them to appreciate its relevance.

CO 2: develop an economic way of thinking in dealing with practical business problems of companies in different industries.

CO 3: define the nature, scope and structure of business environment

CO 4: analyse the influence of various environmental factors on business operations.

CO 5: estimate legal frame work and legal issues in business environment.

Paper: Financial Accounting PGDBM 103

Students will be able to-

CO 1: outline the practical and theoretical knowledge of financial accounting.

CO 2: understand the applicability of accounting concepts, principles and conventions.

CO 3: apply knowledge to prepare final accounts of various type organisations.

CO 4: define the needs of the various users of accounting data and demonstrate the ability to communicate such data effectively.

Paper: Marketing Management PGDBM 104

Students will be able to-

CO 1: acquire an understanding of fundamental concepts of Marketing.

CO 2: demonstrate effective understanding of relevant functional areas of marketing management and its application.

CO 3: develop an insight into basic marketing mix issues, effectively segment a market, target and position a product.

CO 4: apply analytical skills in identification and resolution of problems pertaining to marketing management.

Paper: Human Resource Management PGDBM 105

Students will be able to-

CO 1: understand the management of human resources and challenges being faced by human resource department in an organisation.

CO 2: apply the various job analysis tools and techniques to cater to the organizations HR needs.

CO 3: develop, implement and evaluate employee orientation, training, development and evaluation programs.

CO 4: assess the concept of human resource management and their effective management in today's organization.

Semester-II

Paper: Production Planning and Control PGDBM 201

Students will be able to-

CO 1: demonstrate the concept of production planning and control and its functions.

CO 2: understand the importance and function of inventory and to be able to apply selected techniques for its control and management

CO 3: apply the principles and techniques for planning and control of the production and service systems to optimize/make best use of resources.

CO 4: forecast in the manufacturing and service sectors using selected quantitative and qualitative techniques.

Paper: Management and Cost Accounting PGDBM 202

Students will be able to-

CO 1: understand the basic concepts of cost accounting and management accounting.

CO 2: identify, use and interpret the results of various techniques of costing and management accounting appropriate to different activities.

CO 3: apply the various tools from management accounting and cost accounting to facilitate the decision making.

CO 4: develop analytical abilities to enable them to face the business situations.

Paper: Business and Labour Law PGDBM 203

Students will be able to-

CO 1: explain the concept of general business law issues to help the students to become more informed sensitive and effective business leaders.

CO 2: illustrate the fundamental legal issues pertaining to the business world to enhance their ability to manage businesses effectively.

CO 3: demonstrate the development and the judicial setup of labour laws.

CO 4: assess the laws relating to Industrial Relations, Social Security and Working conditions and to integrate the knowledge of labour law in general HRD practice.

Paper: Advertising and Sales Management PGDBM 204

Students will be able to-

CO 1: outline basic concepts of advertising and sales management.
CO 2: identify and make decisions regarding the most feasible advertising appeal and media mix.
CO 3: build Advertising Programme and measure advertising effectiveness.
CO 4: analyse the role of professional sales people and sales management.
CO 5: analyse, interpret and assess the strategic issues and decisions in advertising and sales management.

HANS RAJ MAHILA MAHA VIDYALAYA

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FACULTY OF

COMPUTER SCIENCE AND IT

Program Outcomes (POs)

and

Course Outcomes (COs)

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Post Graduate Department of Computer Science and Information Technology

Name of Programme: BCA/B.Sc. (IT)

Programme Outcomes

PO 1: This programme inculcates the basic understanding of Computer and Computer Programming Languages in students so that they can have complete knowledge about the system and its inner working details.

PO 2: This programme aware the students about the high use of Computers in various fields and increasing number of Jobs in this field.

PO 3: This programme make the students well versed with the computing environment and the various concepts, topics and subjects related to this field.

PO 4: This Programme enables the students to have the complete understanding of various branches of Computer and Technology such as Computer Graphics, Operating Systems and Data Structures,

Programme Specific Outcomes

PSO 1: This Programme specifically provides better job opportunities to the students and professional knowledge in the field of Programming Languages like C, C++ and Java etc.

PSO 2: This programme provides complete insight details of the technical subjects of this field like Computer Architecture, Computational Problem Solving using Python, Digital Electronics and Discrete Mathematics. All these technical subjects will help them to grab a Job Opportunity and work in an efficient way in their respective fields.

PSO 3: The present era of technology is highly demanding the employees with thorough practical training in their required practical approach. This Programme enables the students to solve the real world problems practically and enrich their skills in research and jobs.

PSO 4: The programme specifically provides in depth knowledge of computer to students so that they can build their carrier in this field and take subsequent advantages from the programme course work.

Name of Programme: BCA

Course Outcomes

Semester-I

Paper: I Introduction to Programming-C

CO 1: This paper demonstrates programming skills to the students who are beginning their career in various Computer Programming Languages.

CO 2: C Programming acts as the base of programming languages which will formulate the interest of students in programming field.

CO 3: The concept of C programming language act as outline to all advanced computer programming languages .

CO 4: This language is being accepted as universal programming language that elaborate the understanding of programming language in students.

CO 5: This paper is specifically elaborate the multitude of applications, including advanced scientific systems and operating systems

Paper: II Introduction to Computers and Information Technology

CO 1: This paper categorize the fundamental information about computer and its working.

CO 2: Students discoverthe fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper simplify Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students elaborate various accounting related operations in MS Excel and presentation skills by using MS PowerPoint which makes them able to work in field of office automation and desktop publishing as well.

Paper: III Applied and Discrete Mathematics

CO 1: This paper demonstrates the mathematical fundamentals topics to students.

CO 2: Boolean algebra is demonstrated through this course structure, so that students can prepare themselves for further understanding of topics related to other subjects of programme.

CO 3: This summarizes the concepts to the students in many competitive exams that act as a base for reasoning, quantitative techniques and graph theory as well.

Semester-II

Paper: I Introduction to Programming-C++

CO 1: This paper illustrates the concepts of C programming language and illustrates the concept of object oriented programming languages so that students can learn about the real time problem solving techniques.

CO 2: Specialized course work can be used for developing different applications, games, animations, web browser, database software, compilers etc., giving students a lot of opportunities in IT Industries as well.

CO 3: Expansion of this paper is being used in system programming and embedded systems for the establishment of Computer Aided Designs and Computer Aided Manufacturing purposes also.

CO 4: This Course rephrase the level of Logical and Analytical Thinking in Students so that they can give more emphasis on real world problem solving techniques and methods.

CO 5: C++ inculcates all the required concepts, methodologies and structure oriented guidance in Students which motivates them to be a Good Programmer in future.

Paper: II Principles of Digital Electronics

CO 1: This paper allows students to analyzethe internal circuitry of the processor and memory in detail explaining about process creation, performance of various calculations, number system, number conversions and K- Mapping techniques.

CO 2: It categorize the mathematical foundation going inside the system for the bits transfer inside the processor, converting sum of product forms into product of sum forms, generating the read-write cycles and memory writing timing diagrams.

CO 3: Digital Electronics makes students summarize about the internal mechanism of Arithmetic Logical Unit inside the processor performing various calculations and manipulations.

CO 4: The motive of this paper is to make hardware live projects by the students.

CO 5: Students can pursue their future in hardware engineering by having complete learning of electronics.

CO 6: This programme will demonstrate the complete learning of electricity and computer system handling in students.

Paper: III Numerical Methods & Statistical Techniques

CO 1: This paper evaluate the learning insights of concept of statistical analysis of the data to the students so that they can effectively and efficiently store the data inside the systems .

CO 2: In the field of computing, this paper will recommend the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well.

CO 3: This gives students complete elaboration to calculate various statistical calculations on data like calculating Mean, Median, Mode, Kurtosis, Moments and Regression.

CO 4: This paper extends the critical and analytical strategies in students so that students can pursue their carrier in research and development field.

Semester-III

Paper: I Computer Architecture

CO 1: This paper demonstratesthe way the hardware components operate and how they are connected together to form the computer system

CO 2: This demonstratesthe system components, circuit design, logical design, structure of instruction, computer arithmetic, processor control, assembly programming and methods of performance enhancement.

CO 3: This paper is especially designed for the students to learn hardware details so that they can work in the Field of Hardware Engineering and be able to develop Hardware Live Projects also.

Paper: II Database Management System

CO 1: This paper is very significant for the graduate students as it delivers details of database systems and its design.

CO 2: It constructs big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also organizes the design and implementation of databases and generates opportunity for students to become data managers.

CO 4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Paper: III Computational Problem Solving & Statistical Techniques

CO 1: This paper is specially designed for providing demonstration of programming to students.

CO 2: Going from the basics to complete detail of the programming concept, this paper enables students to apply their own logics in computer system.

CO 3: It is being widely used in various companies and MNCs, therefore this will help students to get survey for their training projects after placements.

CO 4: Students can build up their own software projects by using the syntaxes and semantics of this programme.

CO 5: The basic foundation of this particular subject will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer.

Semester-IV

Paper: I Data Structures & File Processing

CO 1: This paper is one of the main and technical paper of BCA course after which students become able to discover appropriate data structures as applied to specify problem definition.

CO 2: Students can compare about application of various data structure like stacks, queues, tree, graph, linked list etc. related to different operations.

CO 3: This paper is highly recommended to learn and implement logics in computer science.

CO 4: It also illustrates the various concepts related to data storage in computers.

CO5: Students learn to analyze and compare algorithms for efficiency.

Paper: II Information System

CO 1: This paper carries importance because information system management act as distinguisher for all industries/institutions by the use of information technology.

CO 2: This paper is best suitable for all the students who want to build their carrier in the system analyst, system designer and system manager as these are special jobs for new system development and design.

CO 3: This paper is very much recommended in various levels of business like TPS, MIS, DSS, and ESS.

CO 4: Students can get good jobs according to their interest and develop themselves in higher management positions.

CO 5: This paper is important for development of new techniques in business development.

Paper: III Internet Application

CO 1: This paper provides the demonstration of various concepts related to internet where students will learn about the connection establishment, configuring the network, trouble shoot the network etc.

CO 2: Students learn about the various measures being used for securing the network along with the help of internet protocols and increase in the use various Security Firewalls

CO 3: Paper gives suitable information to students in order to get maximized advantages from the network by implementing an accurate type of Topology and Connecting computer system in proper order.

CO 4: Students can pursue their carrier in the field of network security and network coordination which is presently in high demand throughout the Industry.

Paper: IV System Software

CO 1: This paper demonstrates complete concepts to the students about the process generation inside the internal architecture of the systems and helps them to understand how the processing is being done inside the system.

CO 2: Detailed insights about the Loader, Linker, Assembler and Compiler are developed and are demonstrated to the students

CO 3: Study of various phases of the Compiler makes students more enthusiastic to learn about the internal process working of the system so that they can do specialization in the particular course for higher education also.

CO 4: Students can compare the concept of macros, multi-threading and multiple process orientation techniques through this course work

Semester-V

Paper: I Computer Networks

CO 1: This paper inculcates the complete formulation of networking in students which is the most essential and advantageous in the present scenario of internet and networking.

CO 2: Complete understanding of the specified paper provides students with the information of various network topologies, network protocols, network essentials and network controlling.
CO 3: This Course will help students to get proper information about many network devices andcompare their uses so that students can use them in real world also.
CO 4: Students will thoroughly elaborate the transmission media and compare different LAN, MAN and WAN topologies.
CO 5: Studying the detailed information about the internet protocols will increase the ability in students to work in the real networking development techniques.

Paper: II Web Technologies

CO 1: This paper is highly recommended for the provision of demonstration to the students about website development and software development which will highly increase their opportunities to work in industries.
CO 2: This course is the combination of many server side and client side programming languages like CSS, Java Script, Java Servlets, ASP.net and PHP for the successful establishment of Website or Software.
CO 3: Students will get through the internal knowledge of back-end and front-end processes using which they will be able to design their own websites or software.
CO 4: This paper illustrates information about the data base connectivity along with the given front end website or software so that the students can learn about the data transfer procedures form front-end to back-end and vice-versa.

Paper: III Operating System

CO 1: This paper demonstrates about the importance of computer system resources and the role of operating system in their management policies to get a better understanding about the concept of various Process Management Techniques under different operating systems available.
CO 2: The paper gives detailed description about the process and functions of operating system in order to schedule manage and control the processes going inside the system.
CO 3: The study of operating system helps students to analyse the memory management and its allocation policies which is the prime factor of consideration in every operating system,
CO 4: This course helps students to identify use and formulate the storage management policies with respect to different storage management technologies of operating systems like Windows, Linux and UNIX.

Paper: IV JAVA Programming Language

CO 1: JAVA is the popular for website and Software Development and this course formulates a basic core and advanced both types of technical information about JAVA Language.
CO 2: Students get to learn about the basic concepts of object oriented programming and basic as well as advance Java Programming constructs.
CO 3: This programme enables students to implement the constructs and structure of the Java Programming Language in the successful creation of Java Applets and Java Servlets.
CO 4: This programme is highly recommended for students in order to pursue career in software development in various MNCs in India and Abroad as well.
CO 5: The Specialization of this will increase the opportunities for students to get jobs in the field of programming, website and software development, software testing etc.

Semester-VI

Paper: I Computer Graphics

CO 1: This paper demonstrates the detailed knowledge of Computer Screen and Audio Visual Aids to Students.
CO 2: Students will get to know about the details of Image Resolution, Pixels, Bitmap and Pixel Map which helps them to understand the process of Image Processing.
CO 3: Computer Graphics is a kind of Programme that enables students to understand the working of CRT, LCD and LED Displays so that they can design the screen graphics according to it.
CO 4: This helps students to get through the techniques of creating many Graphical Scenes and Scenes with Motion also which greatly helps them to create different live projects and work under various MNCs.

Paper: II Software Engineering

CO 1: Software engineering calls upon interdisciplinary skills like critical thinking, cost analysis & project management—skills that can been enhanced in a master's program in computer science, computer engineering, information's science or software engineering.

CO 2: This paper will help students to take part in software engineering with a focus on new technologies and areas of application, such as cyber security, big data, or mobile application development etc.

CO 3: This paper will develop a comprehensive solution of programming, software architecture, and software testing which is in high demand in various MNCs and in vast IT Sector.

Paper: IV Project

CO 1: The project will enable students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules make students learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and industries.

CO 3: The paper inculcates the important software developing skills in students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can develop Projects as Websites and Software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme: B.Sc. (IT)

Course Outcomes

Semester-I

Paper I- Fundamentals of Computers

CO 1: This paper demonstrates fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which is being utilize by students to create professional and academic documents.

CO 4: Students explore various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Paper: II Introduction to Programming-C

CO 1: This paper demonstrates programming skills to the students who are beginning their course work in various computer programming languages.

CO 2: C Programming acts as the base of programming languages which will thoroughly justify the interest of students in programming field.

CO 3: All advanced computer programming languages are belonging to the base concept of C programming and learning the basic concept of this paper, will formulates base for the students in advance languages also.

CO 4: This language is being accepted as universal programming language that elaborate the understanding of programming language in students.

CO 5: This paper is specifically being composed for the multitude of applications, including advanced scientific systems and operating systems

Paper: III Applied & Discrete Mathematics

CO 1: This paper demonstrates the mathematical fundamentals topics to students.

CO 2: The Complete knowledge of Boolean Algebra is demonstrated through this course structure, so that students can prepare themselves for further understanding of topics related to other subjects of programme.

CO 3: This summarize the concepts to the students in many competitive exams that act as a base for reasoning, quantitative techniques and graph theory as well.

Semester-II

Paper: I Principles of Digital Electronics

CO 1: This paper allows students to analyze the internal circuitry of the processor and memory in detail explaining about process creation, performance of various calculations, number system, number conversions and K- Mapping techniques.

CO 2: It categorize the mathematical foundation going inside the system for the bits transfer inside the processor, converting sum of product forms into product of sum forms, generating the read-write cycles and memory writing timing diagrams.

CO 3: Digital Electronics makes students summarize about the internal mechanism of Arithmetic Logical Unit inside the processor performing various calculations and manipulations.

CO 4: This paper will motivate students to make their own hardware live projects.

CO 5: Students can pursue their future in hardware engineering by having complete knowledge of electronics.

CO 6: This programme will demonstrate the complete knowledge of electricity and computer system handling in students.

Paper: II Introduction to Programming-C++

CO 1: This paper illustrates the concepts of C programming language and illustrates the concept of object oriented programming languages so that students can learn about the real time problem solving techniques.

CO 2: Specialized course work can be used for developing different applications, games, animations, web browser, database software, compilers etc., giving students a lot of opportunities in IT Industries as well.

CO 3: Expansion of this paper is being used in system programming and embedded systems for the establishment of Computer Aided Designs and Computer Aided Manufacturing purposes also.

CO 4: This Course rephrase the level of Logical and Analytical Thinking in Students so that they can give more emphasis on real world problem solving techniques and methods.

CO 5: C++ inculcates all the required concepts, knowledgeable methodologies and structure oriented guidance in Students which motivates them to be a Good Programmer in future.

Paper: III Numerical Methods & Statistical Techniques

CO 1: This Paper provide the learning insights of Concept of Statistical Analysis of the Data to the students so that they can effectively and efficiently store the data inside the systems where it will be having a low cost and timing access easily.

CO 2: In the field of Computing, this paperwork will motivate the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well.

CO 3: This Paper formulates complete knowledge to calculate various statistical calculation on Data like Calculating Mean, Median, Mode, Kurtosis, Moments and Regression.

CO 4: This paperwork increases the critical and analytical strategies in students so that students can pursue their carrier in Research and Development Field.

Semester-III

Paper: I Introduction to Python

CO 1: This paper is specially designed for explaining the programming concepts to students.

CO 2: The students apply their own logics in computer system by evaluating complete detail of the programming concept

CO 3: The complete demonstration of this programme will help students to get through their training projects after placements in MNCs.

CO 4: Students can build up their own Software Projects by using the syntaxes and semantics of this programme.

CO 5: The basic theory of this particular paper will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer.

Paper: II Data Structure

CO 1: This paper demonstrates a technical paper of BSc. IT course after which students can select appropriate data structures to specify problem definition.

CO 2: Students learn to categorize various data structure like stacks, queues, tree, graph, linked list etc. related to different operations.

CO 3: This paper is highly necessary to learn and implement logics in computer science.

CO 4: It also includes the various concepts related to data storage in computers.

CO 5: Students prepare criteria to analyse and compare algorithms for efficiency.

Paper: III System Analysis & Design

CO 1: This paper illustrates the analyses and designing procedures of a system so that students can go through inside details.

CO 2: Students can build their career as System Analyser and System Handlers in various companies and IT industry.

CO 3: This paper summarizes the concepts of various constructs and structures useful in analysing the system and designs.

Semester-IV

Paper: I Database Management System

CO 1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO 2: It constructs big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also organizes the design and implementation of databases and generates opportunity for students to become data managers.

CO 4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Paper: II Internet Applications

CO 1: This paper demonstrates various concepts related to Internet where students will learn about the Connection Establishment, configuring the network, trouble shoot the network etc.

CO 2: Students learn about the various measures being used for securing the network along with the help of Internet Protocols and increase in the use various Security Firewalls

CO 3: Paper illustrates suitable information to students in order to get maximized advantages from the network by implementing an accurate type of Topology and Connecting Computer System in proper Order.

CO 4: Students can pursue their carrier in the field of Network Security and Network Coordination which is presently in high demand throughout the Industry.

Paper: III JAVA & Web Designing

CO 1: JAVA is the popular for website and Software Development and this course give formulates basic core and advanced both types of technical information about JAVA Language.

CO 2: Students get to learn about the basic concepts of object oriented programming and basic as well as advance Java Programming constructs.

CO 3: This programme enables students to implement the constructs and structure of the Java Programming Language in the successful creation of Java Applets and Java Servlets.

CO 4: This programme is highly recommended for students in order to pursue career in software development in various MNCs in India and Abroad as well.

CO 5: The Specialization of this will maximize the opportunities for students to get jobs in the field of programming, website and software development, software testing etc.

Paper: IV Web technology

CO 1: This paper is highly recommended for the provision of demonstration to the students about website development and software development which will highly increase their opportunities to work in industries.

CO 2: This course is the combination of many server side and client side programming languages like CSS, Java Script, Java Servlets, ASP.net and PHP for the successful establishment of Website or Software.

CO 3: Students will get through the internal knowledge of back-end and front-end processes using which they will be able to design their own websites or software.

CO 4: This paper illustrates information about the data base connectivity along with the given front end website or software so that the students can learn about the data transfer procedures form front-end to back-end and vice-versa.

Semester-V

Paper: I Computer Networks

CO 1: This paper explains the importance of networking in students which is the most essential and advantageous in the present scenario of internet and networking.

CO 2: Complete survey of the specified paper provides students with the information of various network topologies, network protocols, network essentials and network controlling.
CO 3: This Course will help students evaluates proper information about many network devices and compare their uses so that students can use them in real world also.
CO 4: Students will thoroughly elaborate the transmission media and compare different LAN, MAN and WAN topologies.
CO 5: Studying the detailed information about the internet protocols will increase the ability in students to work in the real networking development techniques

Paper: II Operating System

CO 1: This paper demonstrates about the importance of computer system resources and the role of operating system in their management policies to get a better understanding about the concept of various Process Management Techniques under different operating systems available.
CO 2: The paper gives detailed elaboration about the process and functions of operating system in order to schedule manage and control the processes going inside the system.
CO 3: The study of operating system helps students to analyze the memory management and its allocation policies which is the prime factor of consideration in every operating system,
CO 4: This course helps students to identify use and evaluate the storage management policies with respect to different storage management technologies of operating systems like Windows, Linux and UNIX.

Paper: III E-Business

CO 1: This paper is one of the strong theoretical concepts regarding the online business.
CO 2: This paper illustrates the clear concept regarding traditional and online business.
CO 3: This paper helps illustrates the basics of the E-Business and techniques to handle business digitally in order to have productive outcome from the business.
CO 4: This paper demonstrates students about the online payment and online banking systems.

Semester-VI

Paper: I Computer Graphics

CO 1: This paper demonstrates the detailed concepts of Computer Screen and Audio Visual Aids to Students.
CO 2: Students will get to know about the details of Image Resolution, Pixels, Bitmap and Pixel Map which helps them to understand the process of Image Processing.
CO 3: Computer Graphics is a kind of Programme that enables students to understand the working of CRT, LCD and LED Displays so that they can design the screen graphics according to it.
CO 4: This helps students to get through the techniques of creating many Graphical Scenes and Scenes with Motion also which greatly helps them to create different live projects and work under various MNCs.

Paper: III Project

CO 1: This paper demonstrates the detailed explanation of Computer Screen and Audio Visual Aids to Students.
CO 2: Students will get to know about the details of Image Resolution, Pixels, Bitmap and Pixel Map which helps them to understand the process of Image Processing.
CO 3: Computer Graphics is a kind of Programme that enables students to learn the working of CRT, LCD and LED Displays so that they can design the screen graphics according to it.
CO 4: This helps students to get through the techniques of creating many Graphical Scenes and Scenes with Motion also which greatly helps them to create different live projects and work under various MNCs.

Name of Programme: M.Sc. (Computer Science)/M.Sc. (Information Technology)

Programme Outcomes

PO 1: This programme will provide the ability to students to communicate well and to understand the concepts and designs of computer effectively and professionally.
PO 2: This programme will enable the students to apply the knowledge of computing in research and education field to produce effective designs and solutions for specific problems.
PO 3: This programme will inculcate the ability of identify, analyze and synthesize scholarly literature relating to the field of computer science and IT.
PO 4: This programme will be effective to combine the understanding of the use of software development tools, IDEs, various software system and modern computing platforms.

Programme Specific Outcomes

PSO 1: This programme will specifically enrich the students with the detail knowledge to apply standard software engineering practices and strategies in real time software project development using open source programming environment or commercial environment to deliver quality product for the organizational process.

PSO 2: This programme inculcate the abilities in students specifically to design and develop computer programs/computer based systems in the areas related to algorithms, networking, web design, cloud computing, IOT and data analytics of varying complexity.

PSO 3: This programme will make the students able to learn and work in this competitive filed according to the present scenarios of MNCs and organizations so that students can have better carrier opportunities.

PSO 4: This programme will acquaint students with the contemporary trends in industrial and research setting and thereby providing innovative novel solutions to existing problems.

Name of Programme: M.Sc. (Computer Science)

Course Outcomes

Semester-I

Paper: MCS-101 Advanced Data Structure

CO 1: This paper demonstrates the algorithm design and analysis and it also provide the students lot of opportunities in the IT industries. .

CO 2: This paper demonstrates means for management of large dataset such as databases or internet indexing services by allowing the data use and processing on a software system.

CO 3: Many reputed companies like Amazon, Microsoft hire students on the basis of their practical knowledge in the data structures.

Paper: MCS-102 Advanced Computer Architecture

CO 1: The study of computer architecture and organization focuses on the interface between hardware and software, and emphasizes the structure and behaviour of the system that provides hardware details of the system to the students.

CO 2: This paper inculcates the hardware information of processor in students.

CO 3: To develop good software, it is very important to learn the computer system as a whole and this paper demonstrates complete concepts about the inner working of computer system.

Paper: MCS-103 Network Design & Performance Analysis

CO 1: This paper illustrates students with the detail networking concepts being highly used in modern time's technologies and it also provides shared access to customer and product databases in a very less time.

CO 2: Network protocol analysis is a network sniffer to capture data for further analysis and understanding the technical means for necessary packets.

CO 3: Best demonstration of networking concepts make students more confident about the business startups in field of professional networking development.

CO 4: This paper will enable students to get best placements as Networking Professionals and Network Developers in various companies.

Paper: MCS-104 Discrete Structures

CO 1: Discrete Structures demonstrates the students to study areas such as set theory, logic, relations, graph theory and analysis of algorithms.

CO 2: Modeling with discrete mathematics is an extremely important problem solving skill in which the students perform combinatorial analysis to solve counting problems and analyze algorithms.

CO 3: This paper is a collection of techniques and algorithms relevant to all sorts of things that students often need to do programming.

Paper: MCS-105 Soft Computing

CO 1: This paper demonstrates the basic knowledge of probability, fuzzy logic and neural networks that allows students to handle problems with imprecise and incomplete data.

CO 2: The paper inculcates the fuzzy logic toolbox and covers a wider range of operating conditions, more readily customizable in natural language terms.

CO 4: This paper provides illustration of various membership functions of fuzzy logic and use of fuzzy and neural for various real world problems.

CO 5: This paper also demonstrates the various types of neural networks and their algorithms.

Semester-II

Paper: MCS-201 Theory of Computation

CO 1: Students understand the mathematical laws governing efficient computation and apply this understanding to address problems in other parts of computer science.

CO 2: This paper demonstrates students about the elementary ways in which a computer can be made to think. It provides good problem solving skills and behind logic of any compiler.

CO 3: In theory of computation students will learn abstract machines, or model of computation, which will be defined mathematically.

Paper: MCS-203 Image Processing

CO 1: This paper will provide students useful and essential skills and experience to make career as creative professionals such as graphic designers, gallery managers, art curators, commissioning editors and art directors etc.

CO 2: Students will formulate detailed functions of image processing software so that students can learn about restoration, manipulation and development of various imaging techniques.

CO 3: This paper demonstrates the development of the layout and production design of newspapers, magazines, corporate reports, journals and other publications.

CO 4: The advanced features of image processing are being used to develop motion picture and motivate students to work in television industry.

Paper: MCS-203 Design & Analysis of Algorithm

CO 1: A Software programmer is responsible for designing, installing, testing and maintaining of software systems. A Software Programmer has to review current systems, present ideas for system improvements, work with analysts, product specifications and write the program codes.

CO 2: Software Engineers instruct a computer to perform the desired function.

CO 3: A Software Developer has to work in industries like software publishers, gaming companies and government organizations.

CO 4: Technical writers are the technical communicators who prepare instruction manuals, journal articles and other documents to communicate complex and technical information more easily.

Paper: MCS-204 Cloud Computing

CO 1: It provides a deep knowledge to students about virtualization. Cloud environment gives the business the ability to communicate and share more easily outside of the traditional methods.

CO 2: This subject demonstrates students about the different models used in cloud for service provided.

CO 3: The paper enables the students to learn the use of internet and cloud in various organizations.

CO 4: Moving to cloud computing may reduce the cost of managing and maintaining your IT systems. Students came to know about the energy efficiency in cloud.

Paper: MCS-205 Distributed Database System

CO 1: This paper is highly specialized that elaborates the future design and implementation in the field of networking.

CO 2: This paper demonstrates the advance development in the field of networking, storing and fetching of information.

CO 3: This helps in illustrating the specialized networking techniques which ensure the processing of large information systems without any failures.

CO 4: Students learn about remote network and server processing in which data is never placed in server but data is available to user as and when required.

CO 5: This paper is having huge scope in large networks, data warehousing and data mining. Students' gets very good option for becoming good network administrator.

Semester-III

Paper: MCS-301 Advanced Software Engineering

CO 1: The Advanced Software Engineering is a newly redesigned course that enables students to extend their knowledge and gain valuable experience in software engineering as it applies to a number of new and important areas of IT and computing.

CO 2: Software engineers may choose to become experts in a single programming language or type of development.

CO 3: Students can work as web developer, software engineer, Mobile development, Technical stack (e.g., Python, Ruby) etc with the complete knowledge of this subject.

Paper: MCS-302 System Software

CO 1: This paper demonstrates the students about the process generation inside the internal architecture of the systems and helps them to understand how the processing is being done inside the system.

CO 2: Detailed illustration of Loader, Linker, Assembler and Compiler is given to the students through this paper through which they can determine what the actual working is being performed inside the system when we initiate a command.

CO 3: Study of various phases of the Compiler makes students more enthusiastic to learn about the internal process working of the system so that they can do specialization in the particular course for higher education.

CO 4: Students get to learn about the concept of Macros, Multi- Threading and Multiple Process Orientation techniques through this course work.

Paper: MCS-303 Data Mining and Warehousing

CO 1: This paper demonstrates how data is integrated across enterprises and industries

CO 2: This paper helps students in solving what-if analysis and various mining techniques to handle the business scenarios.

CO 3: This paper work inculcates the capability of decision making on current and historical data and its implementation.

CO 4: This paper makes it easier to learn the students how to manage and control businesses and perform mining on the required data.

Paper: MCS-304 Concept of Core and Advanced JAVA

CO 1: This paper is one of the specialized Programme in M.Sc., which provides the detail knowledge of Java Programming Language.

CO 2: Students get to learn about the basic concepts of object oriented programming and basic as well as advance Java Programming constructs.

CO 3: This paper enables students to implement applications in Java & Java Applets.

CO 4: This paper is highly recommended for students in order to pursue career in software development.

CO 5: Students can get many job opportunities and use this language as a tool in research.

Paper: MCS-305 Network Programming

CO 1: Network programming write software programs or scripts that aid in network analysis, such as diagnostics or monitoring utilities.

CO 2: This paper demonstrates students to integrate new software technologies into an existing network environment or to build a new environment.

CO 3: Network technicians often work the help-desk services to repair or upgrade computers. Technicians need to be familiar with the different operating systems such as Microsoft, Novell, and UNIX, as well as the basics of computer networking.

Semester-IV

Paper: MCS-401 Advanced Web Technologies

CO 1: This subject provides combination of many languages which are useful for students to develop web sites. ASP .NET significantly reduces the amount of code required for building large and complex applications which can increase overall development speed and reduce development costs.

CO 2: ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages and by implementing CSS students came to know about formatting.

CO 3: This paper demonstrates students to get through the inner functioning details of Asp.Net framework. Asp.Net framework is language independent, means students can choose any programming language which best suited to you application.

CO 4: By database connectivity students came to know how the internal functionality of a web site is connected with backend.

Paper: MCS-402 Microprocessor and Its Application

CO 1: A microprocessor is normally capable of many functions, such as word processing, calculation, and communication via Internet or telephone and this helps students to understand the detailed view of microprocessor about their functionality and their properties.

CO 2: Students can easily extend their knowledge of writing assembly code, for the x86 assembly language thereafter. And students can understand how a machine interprets instructions at low level.

CO 3: This paper demonstrates how a processor at the lower level receives input from the keyboards and the mice. And students can learn how and why memory segmentation in a process came into existence.

CO 5: This also allows students to learn about the real life applications of the microprocessor.

Paper: MCS-403 Object Oriented Modeling, Analysis and Design

CO 1: OOAD is often used in the area of object oriented programming (OOP). OOP aims to produce software that is efficiently written with few instances of duplicated code.

CO 2: Object-oriented analysis and design (OOAD) is a technological approach to analyse, design a software system or business by using Object Oriented (OO) concept.

CO 3: An OOAD provides learning of principles of relational, hierarchical and object-oriented databases

CO 4: OOAD allows the students to learn current trends in data management, such as data mining and business analytics.

Paper: MCS-405P Project

CO 1: The Project will make Students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules make students learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and Industries.

CO 3: This paper inculcates the important software developing skills in students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can develop projects as websites and software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme: M.Sc. (Information Technology)

Course Outcomes

Semester-I

Paper: MIT-101 Analysis and Design **of Embedded System**

CO 1: Embedded System is designed to function with minimal or no human interference. This course explains embedded system concepts and architecture of embedded systems.

CO 2: This paper also explains the architecture of PIC, AVR and DSP microcontrollers.

CO 3: Students can learn different types of operating systems and their services used required for designing embedded systems.

CO 4: This paper illustrates the design issues and elements for an embedded systems and tools for development of embedded systems.

Paper: MIT-102 Distributed Computing

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborates the future design and implementation in the field of networking.

CO 2: This paper explains advance development in the field of networking, storing and fetching of information.

CO 3: This helps specialized networking techniques which ensure the processing of large information systems without any failures.

CO 4: Students learn about remote network and server processing in which data is never placed in server but data is available to user as and when required.

CO 5: This programme is having huge value in large networks, data warehousing and data mining. Student's gets very good option for becoming good network administrator.

Paper: MIT-103 Advanced Computer Organization and Architecture

CO 1: The study of computer architecture and organization focuses on the interface between hardware and software, and emphasizes the structure and behavior of the system that provides hardware details of the system to the students.

CO 2: This paper explains the hardware concepts of processor in students and it is important that computer students need a basic illustration of computer system itself in order to rectify the problems.

CO 3: There are a fundamental relationship between hardware and the many aspects of programming and software components in computer systems.

Paper: MIT-104 Network Operating System

CO 1: This paper is one of the highly specialized programme in M.Sc., which provides the detail knowledge of Network Operating System specifically Microsoft Windows Server.

CO 2: Students get to learn about the various concepts related to Network Operating System like User/Group Management, Disk Quotas, Server Setup (WEB Server, DHCP, DNS etc.) in Windows and Linux.

CO 3: This paper enables students to create and manage highly efficient networks using Microsoft Server product.

CO 4: This paper is highly recommended for students as it gives them an insight into comparing Windows Server products and Linux Server Solution in order to implement network solutions in organizations.

CO 5: Students can get many job opportunities related to Network Administrator in various industries/organizations.

Paper: MIT-105 Computational Problem Solving Using Python

CO 1: This paper is specially designed for demonstrating concepts of programming to students.

CO 2: Going from the basics to complete detail of the programming concept, this programme enables students to apply their own logics in computer system.

CO 3: This paper is being widely used in various companies and MNCs. This programme will help students to get through their training projects after placements.

CO 4: Students can build up their own software projects by using the syntaxes and semantics of this programme.

CO 5: The basic foundation of this particular programme will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer

Semester-II

Paper: MIT-201 Mobile Computing

CO 1: This paper demonstrates the different wireless communication System.

CO 2: Through this subject student came to know about the mobile radio Propagations and how a channel is allocated to each subscriber.

CO 3: The GSM system for mobile Computing is also taught to students.

CO 4: A complete description of SMS (Short Message Service) and its architecture is given to students through this subject.

Paper: MIT-202 Distributed Databases

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborates the future design and implementation in the field of networking.

CO 2: This paper provides advance development in the field of networking, storing and fetching of information.

CO 3: This helps in learning specialized networking techniques which ensure the processing of large information systems without any failures.

CO 4: Students learn about remote network and server processing in which data is never placed in server but data is available to user as and when required.

CO 5: This paper demonstrates large networks, data warehousing and data mining. Students' gets very good option for becoming good network administrator.

Paper: MIT-203 Image Processing

CO 1: This paper will explain the students useful and essential skills and experience to make career in creative professionals such as graphic designers, gallery managers, art curators, commissioning editors and art directors etc.

CO 2: This paper demonstrates the students to get detailed functions of image processing software so that students can learn about restoration, manipulation and development of various Imaging techniques.

CO 3: This paper concludes the layout and production design of newspapers, magazines, corporate reports, journals and other publications.

CO 4: The advanced features of image processing are being used to develop motion picture and motivate students to work in television industry.

Paper: MIT-204 Fuzzy Systems

CO 1: This paper demonstrates the basic knowledge of probability, fuzzy logic and neural networks that allows students to handle problems with imprecise and incomplete data.

CO 2: The paper explains the fuzzy logic toolbox and covers a wider range of operating conditions, more readily customizable in natural language terms.

CO 4: This paper provides demonstration of various membership functions of fuzzy logic and use of fuzzy and neural for various real world problems.

CO 5: This paper also demonstrates the various types of neural networks and their algorithms.

Paper: MIT-205 Network Design and Performance Analysis

CO 1: Developing networking skills almost immediately places and to make a career in virtually any sector. All the industrial sectors like the financial services, transport, manufacturing, education, technology, Government, healthcare, hospitality, and retail and so on experience shortage of skilled networking specialists.

CO 2: Students can make a mark immediately in the field you desire. The Government sectors have considerable value for networking technology. The Defence and Intelligence services need networking specialists regularly.

CO 3: The technology is such that you can choose to start your own business as well. Networking skills can help you connect to other businesses thereby helping you to market your business and services efficiently.

Semester-III

Paper: MIT-301Network Protocols

CO 1: This paper demonstrates how information is transmitted accurately and unambiguously across the systems.

CO 2: It inculcates students about the overview of creating IP addresses and their configurations

CO 3: This paper illustrates about different networking topologies, media, systems and their management

CO 4: Students can use different protocols to ensure integrity and security of communication of underlying network.

CO 5: This paper also helps in setting up procedures for sending and receiving messages, acknowledgement of receipt, congestion avoidance, error correction etc.

Paper: MIT-302 Advanced Web Technologies

CO 1: ASP.net supports multiple programming languages like C#, visual basic dot net, J#, C++ and service-oriented architectures.

CO 2: Student having proficiency in on programming languages can build one module of large application and can be used simultaneously with modules develop by other students having good hand in other programming language.

CO 3: ASP.net provide is reliable and flexibility. Student can develop applications for different devices like laptop, smart-phones; pocket PCs and so on using single language.

CO 4: ASP.NET drastically reduces the amount of code required to build large applications.

CO 5: Students can easily develop software using Wizards in Dot net framework.

CO6: Students can get job easily related to software development

Paper: MIT-303 Linux Administration

CO 1: Learning Linux Provides Good Job Opportunities to the students in IT sector.

CO 2: Students chooses To Write Efficient, Effective Scripts with Documentation.

CO 3: As It Is Available Free of Cost and Can Easily Run on Older and Cheaper Computers It provides Substantial Financial Savings.

CO 4: It Provides High Security. Using Linux means avoiding viruses and malware.

CO 5: Improves Problem Solving Skills of the students.

Paper: MIT-304 System Simulation

CO 1: This paper is really very efficient one in M.Sc. and provide students with great insight of newly systems and their simulations.

CO 2: This paper maximizes the interest of students in the creation of newly computerized systems by first making their simulations.

CO 3: The students will elaborate their work with various MNCs, firms and organization helping in the manufacturing of new systems.

Paper: MIT-305 Microprocessor and Its Application

CO 1: A microprocessor is normally capable of many functions, such as word processing, calculation, and communication via Internet or telephone and this helps students to understand the detailed view of microprocessor about their functionality and their properties.

CO 2: Students can easily write assembly code, for the x86 assembly language.

CO 3: This paper demonstrates how a processor at the lower level receives input from the keyboards and the mice. Students can learn how and why memory segmentation in a process came into existence.

CO 5: This motivates students to learn about the real life applications of the microprocessor.

Semester-IV

Paper: MIT-401 Advanced Java Technology

CO 1: This paper is one of the specialized programme in M.Sc., which provides the detail knowledge of Java Programming Language.

CO 2: Students get to learn about the concepts of object oriented programming and Java Programming constructs.

CO 3: This paper enables students to implement commercial applications in Java & Java Applets.

CO 4: This paper is highly recommended for students in order to pursue career in software development.

CO 5: Students can get many job opportunities and it can also act as a tool in research in some specialized fields.

Paper: MIT-402 Network Security

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborates the various components involved in network security.

CO 2: This paper organizes students to learn basic and advance concepts of most important component i.e. personal level firewall and gateway level firewall.

CO 3: Students are able to apply security concepts, security threats, security services and mechanisms to counter them.

CO 4: This paper demonstrates advance methods in designing networks from security point of view.

CO 5: This helps in choosing specialized networking security device UTM (Unified Threat Management) from a number of available devices in the market.

CO6: This paper classifies large scope in industry and research.

Paper: MIT-403 Artificial Neural Network

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborates the future design and implementation in the field of networking.

CO 2: It evaluates the present day requirement of Pattern recognition, Character recognition.

CO 3: It closely resembles the human brain networking including learning, logistics, recognitions and retaining information.

CO 4: Now a day this programme is having great significance in all fields where specialization like human is required.

CO 5: Students can create many research and job opportunity after pursuing this specialized programme.

Paper: MIT-405P Project

CO 1: The Project will make Students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules motivate the students to learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and Industries.

CO 3: This paper illustrates the important in students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can make projects as websites and software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme: Post Graduate Diploma in Computer Applications

Programme Outcomes

PO 1: This one year programme formulates the development of computing and practical skills in students to enhance their introductory knowledge of using the systems efficiently.

PO 2: The students from various degree programme of other fields can construct thorough advantages from this programme and use their computer practical knowledge along with their degree course.

PO 3: The main objective of this programme is to demonstrate students with basic knowledge of Computer, PC Computing, Data Base Management System and Internet.

PO 4: This programme will enable the students to work in environment where systems are being highly used and they can use their skills to ensure the better productivity.

Programme Specific Outcomes

PSO 1: This programme specifically prepares the students for this competitive world **where** computers are playing a vital role and it is necessary for all the employees to have thorough knowledge of computers.

PSO 2: Along with the basic concepts of Computer, this programme provides students with the practical knowledge of MS- Office, PC Computing, Oracle and HTML also.

PSO 3: This programme will specifically help the students to garb jobs in IT Sector and make themselves ICT enabled to work in various Organizations, Companies, Banks and MNCs.

Course Outcomes

Semester-I

Paper: I PC Computing-I (MS-Office)

CO 1: This paper is the base subject for giving the basic fundamental concept of application software to the students.

CO 2: The motive of this subject is to inculcate the basics of computer and MS-Offices to students so that students can pursue their carrier in the field of office automation and desktop publishing.

CO 3: This paper create effective documents, presentation slides and Excel Workbooks in students so that students can use their caliber in the field of banks, corporate sectors etc.

Paper: II PC Computing-II (Professional DTP)

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to discover the fundamental concept of computers with their present level of learning about computers.

CO 3: This paper develops Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint.

Paper: III Fundamentals of Computer and OS

CO 1: This paper formulates information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students are able to discover the fundamental concept of computers with their present level of learning about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Paper: IV Database Management System

CO 1: This paper is recommended for the graduate students as it delivers details of database systems and its design.

CO 2: It is builds big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO 4: It elaborates opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Semester-II

Paper: I Network Concepts and Management

CO 1: This paper illustrates Networking in students which is the most essential and advantageous in the present scenario of Internet and Networking.

CO 2: Complete demonstration of the specified paper provides students with the information of Various Network Topologies, Network Protocols, Network Essentials and Network Controlling.

CO 3: This paper will motivate students to get proper information about many Network Devices and their Uses so that students can use them in Real World also.

CO 4: Students will formulate knowledge about the transmission media and to realize and compare different LAN, MAN and WAN Topologies.

CO 5: Studying the detailed information about the Internet Protocols will increase the ability in students to work in the real networking development techniques.

Paper: II Programming in C

CO 1: This paper demonstrates programming skills to the students who are beginning their course work in various Computer Programming Languages.

CO 2: C Programming acts as the base of Programming Languages which will maximize interest of students in Programming Field.

CO 3: All Advanced Computer Programming Languages are belonging to the base concept of C Programming and Learning the basic concept of this course, will motivate students in Advance Languages also.

CO 4: This Language is being accepted as Universal Programming Language; therefore the concept of this language will formulate the procedures of Programming Language in Students.

CO 5: This paper explains multitude of applications, including advanced scientific systems and operating systems.

Paper: III Introduction to Scripting Language, Web Designing & Uses of Internet

CO 1: This paper enables students to develop Website and Software which will highly increase their opportunities to work in industries.

CO 2: This paper is the combination of many Sever Side and Client Side Programming Languages like CSS, Java Script, Java Servlets, ASP.net and PHP and is recommended for the successful establishment of Website or Software.

CO 3: Students will determine the internal knowledge of Back- End and Front- End Processes which further help them to design their own Websites or Software.

CO 4: This paper develops the information about the Data base Connectivity along with the given Front End website or software so that the students can learn about the Data Transfer Procedures forms Front-End to Back-End and Vice-Versa.

Paper: IV Multimedia Systems

CO 1: This paper is used to become graphic designers and by having knowledge of this subject, they have the desired skills in Drawing, Lay outing, Typography, Lettering, Diagramming, and Photography.

CO 2: This subject demonstrates the layout and production design of newspapers, magazines, corporate reports, journals and other publications.

CO 3: Students can also create marketing brochures for services and products, promotional displays packaging, design distinctive logos for businesses and products.

Name of Programme: Diploma in Computer Applications

Programme Outcomes

PO 1: This programme summarizes an introductory level of knowledge in computer field so that they can pursue higher studies after higher secondary classes.

PO 2: This one year programme will develop the basic insights of various application software which are being used in various fields, offices and companies.

PO 3: This programme rephrases basic working of computer systems

PO 4: This programme provides beneficial outcomes to the students for preparing for competitive exams and constructs a job in educational and governmental institutions.

Programme Specific Outcomes

PSO 1: This programme specifically organizes plans for the students to pursue their carrier in computer field and prepare students for effective understanding of the system.

PSO 2: This programme maximizes the computing as well as practical skills in order to make them understand the working of computer and applications of computer in specific fields.

PSO 3: This programme enables the students to develop their interest in various application and systems software along with programming skills so that students can take the subject for their further study in order to work in this field.

Course Outcomes

Semester-I

Paper: I Information Technology and Operating System

CO 1: This paper provides fundamental demonstration about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to design the fundamental concept of computers with their present level of knowledge about computers.

CO 3: The study of Operating System helps students to analyze the memory management and its allocation policies which is the prime factor of consideration in every Operating System,

CO 4: This paper demonstrates students to identify use and evaluate the storage management policies with respect to different storage management technologies of Operating Systems like Windows, Linux and UNIX.

Paper: II PC Computing-I

CO 1: This paper elaborates fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to design the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper demonstrates Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Semester-II

Paper: I Database Management System

CO 1: This paper is very significant for the graduate students as it delivers detail study of database systems and its design.

CO 2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also delivers the design and implementation of databases and constructs opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO 4: It discovers opportunities for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Paper: II PC Computing-II

CO 1: This paper is specifically designed about MS-Access to students and it provides analyzes about the Database Establishment and Connection.

CO 2: MS-Access is being used in various big organizations, industries and MNCs for constructing data simpler and much efficient.

CO 3: Students get to learn about the process of creating Tables and making the concept of Database handling more presentable and understanding for the Software Developers as well.

Course Outcomes

Name of Programme: B.A. /B.Sc. (Computer Science)/B.Sc. (Economics)

Computer Science

Semester-I

Paper: Computer Fundamental & PC Software

CO 1: This paper provides fundamental criteria about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: After completing this paper, students become able to formulate the fundamental concept of computers with their present level of knowledge about computers.
CO 3: This paper explains Microsoft Office programs which enable the students to create professional and academic documents.
CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Semester-II

Paper: Programming Using C

CO 1: This paper summarizes basic knowledge of programming skills to the students who are beginning their course work in various Computer Programming Languages.
CO 2: C Programming translates the base of Programming Languages which will thoroughly increase the interest of students in Programming Field.
CO 3: All Advanced Computer Programming Languages are belonging to the base concept of C Programming and Learning the basic concept of this course, will help students in Advance Languages also.
CO 4: This Language is being accepted as Universal Programming Language; therefore the concept of this language will simplify thorough learning of procedures of Programming Language in Students.

Semester-III

Paper: Computer Oriented Numerical and Statistical Methods

CO 1: This paper provide the learning insights of Concept of Statistical Analysis of the Data to the students so that they can effectively and efficiently store the data inside the systems where it will be having a low cost and timing access easily.
CO 2: In the field of Computing, this course work will help the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well.
CO 3: This paper demonstrates complete means to calculate various statistical calculations on Data like Calculating Mean, Median, Mode, Kurtosis, Moments and Regression.
CO 4: This paper work maximizes the critical and analytical strategies in students so that students can pursue their carrier in Research and Development Field.

Semester-IV

Paper: Data Structures & Programming Language Using C++

CO 1: This paper is one of the main and technical paper after which students become able to select appropriate data structures as applied to specify problem definition.
CO 2: Students learn about application of various data structure like stacks, queues, tree, graph, linked list etc. related to different operations.
CO 3: This paper is highly important to learn and implement logics in computer science.
CO 4: It also includes the various concepts related to data storage in computers.
CO 5: Students learn to analyze and formulate algorithms for efficiency.

Semester-V

Paper: Data Base Management System & Oracle

CO 1: This paper is very significant for the graduate students as it delivers detail conclusion of database systems and its design.
CO 2: It elaborates types of industry/institutions because all kind of necessary data is to be stored in database.
CO 3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.
CO 4: It develops opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Semester-VI

Paper: Information Technology

CO 1: This paper provides the deep estimate to students about Information Technology and Networking so that students can learn the basic concepts of Internet and Computer Networks.
CO 2: This paper constructs complete illustration of Protocols, Topologies and Latest Technologies with the advancements in the field of Networking.

CO 3: This paper provides the demonstration of cables, connections, connectors and all the required technologies for Networking like IEEE, TCP/IP etc.

Name of Programme: B.A. Computer Application (Vocational)

Course Outcomes

Semester-I

Paper: Computer Fundamental & Pc Software

CO1: This paper develops fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO2: After constructing this paper, students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO3: This paper builds Microsoft Office programs which enable the students to create professional and academic documents.

CO4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Semester-II

Paper: Programming Using C

CO1: This paper explains the basic insight of programming skills to the students who are beginning their course work in various Computer Programming Languages.

CO2: C Programming acts as the base of Programming Languages which will maximize interest of students in Programming Field.

CO3: All Advanced Computer Programming Languages are belonging to the base concept of C Programming and Learning the basic concept of this course, will help students in Advance Languages also.

CO4: This Language is being accepted as Universal Programming Language; therefore the concept of this language will formulate thorough learning about procedures of Programming Language in Students.

CO5: This Paper Work illustrates multitude of applications, including advanced scientific systems and operating systems

Semester-III

Paper: Operating System

CO1: This Paper Work explains and describes about the important computer system resources and the role of operating system in their management policies.

CO2: The paper analyzes detailed description about the process and functions of Operating System in order to schedule, manage and control the processes going inside the system.

CO3: The study of Operating System helps students to analyze the memory management and its allocation policies which is the prime factor of consideration in every Operating System,

CO4: This paper demonstrates students to identify use and evaluate the storage management policies with respect to different storage management technologies of Operating Systems like Windows, Linux and UNIX.

Semester-IV

Paper: Relational Data Base Management Systems & Oracle

CO1: This paper is very significant for the graduate students as it delivers detail conclusion of database systems and its design.

CO2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Semester-V

Paper: Internet and Web Designing

CO1: This paper demonstrates various concepts related to Internet where students will learn about the Connection Establishment, configuring the network, trouble shoot the network etc.

CO2: Students learn about the various measures being used for securing the network along with the help

of Internet Protocols and increase in the use various Security Firewalls

CO3: Paper gives suitable information to students in order to get maximized advantages from the network by implementing an accurate type of Topology and Connecting Computer System in proper Order.

CO4: Students can pursue their carrier in the field of Network Security and Network Coordination which is presently in high demand throughout the Industry.

Semester-VI

Paper: Business Data Processing

CO 1: This paper is specially designed for the final year students in order to maximize information of basic need of Computer in different companies and organizations so that students can work accordingly.

CO 2: Business Data Processing explains the Latest terms and technologies being used in companies so that students can work under the Live Software of Payroll Systems, Enterprise Software, and Data Warehousing Software etc.

CO 3: This paper demonstrates the students about the working of Developer 2000 Software which is being used in Companies and Organizations for the handling of Employee Data.

HANS RAJ MAHILA MAHA VIDYALAYA

MAHATMA HANS RAJ MARG, JALANDHAR (PUNJAB) INDIA

FACULTY OF SCIENCES

Program Outcomes (POs)

and

Course Outcomes (COs)

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Post Graduate Department of Botany
Name of Programme: B.Sc. Medical
Programme Outcomes

PO 1 Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PO 2 Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO 4 Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO 5 Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.

PO 7 Self reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Programme Specific Outcomes

Botany

PSO 1: **Acquaintance with microbiological world:** Students are familiarized with different classifications of microorganisms (algae, fungi, bacteria, and viruses) present across the globe to make them understand and appreciate history, morphology and distinguishing features of different types of microorganisms present on our planet thus opening the field of various career options in Microbiology.

PSO 2: **Familiarization with lower plants:** Students understand about the morphology, biology and importance of bryophytes and pteridophytes and comprehend the role of lower plants in evolution and succession of life.

PSO 3: **Identification of relationship between structure and function:** Detailed structural and functional study of nucleus, cell membrane, cell wall and various other organelles which includes mitochondria, golgi body, endoplasmic reticulum, peroxisomes and vacuoles helps students realize the relationship between structure and function.

PSO 4: **Comprehension of patterns of inheritance:** To explain the students about the genetic inheritance and genetic variations, detailed study on DNA and understand the concept of cell division including mitosis and meiosis.

PSO 5: **Grasping the concept of plant systems and organs:** The main objective of this programme is to familiarize students regarding the basic plan of plant, branching pattern, diversity of life forms of flowering plants.

PSO 6: **Analyzing the components of different plant parts:** The main objective of this programme is to familiarize students regarding detailed study of root system, various means of vegetative reproduction and sexual reproduction in flowering plants.

PSO 7: **Conception of history and trends of plant classification:** The main objective of this programme is to familiarize students regarding history, morphological and taxonomical distinguishing features of different classes of angiosperms and gymnosperms.

PSO 8: **Learning the trends in biologically important families:** The main objective of this programme is to familiarize students regarding angiosperm taxonomy, botanical nomenclature, diversity

of flowering plants in families.

PSO 9: **Expanding perceptive how plants function at various at various physiological processes:** To explain the students about the various life supporting processes in plants and enlighten students towards the basics of biochemistry and biotechnological studies.

PSO 10: **Interpret various physiological processes in relation to plants:** To explain the students about the detailed study of various physiological processes in plants life supporting processes in plants.

PSO 11: **Understand and analyse plants in relation to environment and its various components:** detailed study of interactions between plants and environment which includes anatomical and physiological responses of plants to various environmental factors.

PSO 12: **Gain knowledge about various plants of economic use:** Understand the concept of sources and importance of different plants in our life

Course Outcomes

Semester I

Paper I A : Diversity of Microbes

CO 1: This course will facilitate students **to classify** various genera of Algae according to general characters and economic importance.

CO 2: To facilitate students to **demonstrate** different characteristics features of various classes of microorganisms under Bacteria and viruses and also **illustrate** their life cycle and economic importance.

CO 3: Students will be able to **summarize** different characteristics features of various classes of Mastigomycotina, Zygomycotina and Ascomycotina

CO4: Students will be able to **perform** practicals to demonstrate characteristic features of Basidiomycotina and Deuteromycotina

CO 5: Students will be able to **identify** various characteristic features of Lichens.

Paper IB Diversity of cryptogams

CO 1: Student can **make** micropreparation of the material of Pteridophyta and bryophytes and identified anatomically.

CO 2: Student can **collect** few species from locality and identify morphologically during collection of material in the local visit.

CO 3: Students can **summarize** characters, distribution, classification and regeneration in Bryophytes

CO4: Students can **outline** how the stele evolution occurs in Pteridophytes and also familiar with the work done by Indian pteriodologist.

CO 5: Students can **catalog** Pteridophytic classes and the morphological and anatomical characters of genus included in the different Pteriodophytic orders

Semester II

Paper IA Cell biology

CO 1: The students will be able to **categorize** level of structural organization and function of Nucleus.

CO 2: The students will be able to **explain** extra nuclear Genome.

CO 3: The students will be able to **enlist** various levels of Chromosome Organization

CO4: The students will be able to **summarize** various chromosome alterations.

CO 5: This course will help students in **distinguishing** between cell wall and cell membrane

Semester II

Paper IB Genetics

CO 1: The students will be able to **identify** fine structure of DNA, the Genetic Material

CO 2: The students will be able to **summarize** Genetic regulation of Cell division

CO 3: The students will be able to **outline** the Regulation of Genetic expression

CO4: The students will be able to **illustrate** the genetic variation.

CO 5: This course will be able to **compare** DNA damage and repair structure.

Semester- III

Paper: A Structure, Development and Reproduction in Flowering Plants- I

CO 1: The students will be able **to compare** diversity and branching in flowering plants

CO 2: The students will be able **to interpret** the shoot system and various tissues present in it.

CO 3: The students will be able to students to **illustrate** structure of wood and their variation in various environment conditions

CO4: The students will be able to **identify** the various adaptations of leaves in relation to photosynthesis.

Paper B: Structure, Development and Reproduction in Flowering Plants–II

CO 1: The students will be able **to relate** function and mechanism of root system in plants

CO 2: The students will be able to **experiment with** vegetative reproduction and structure of flower.

CO 3: The students will be able **to compare** the role and structure of male and female gametophyte

CO4: The students will be able **to analyze** the mechanism of double fertilization and seed.

Semester-IV

Paper: IV A Diversity of Seed Plants and their Systematics- I

CO 1: Students will be able to **identify** the seed plants

CO 2: Students will be able **to classify** gymnosperms according to their features.

CO 3: Students will be able **to examine** geological time scale and fossilization

CO4: The students will be able students to **classify** the gymnosperms on the basis of morphology of vegetative and reproductive parts

Paper: IV B Diversity of Seed Plants and their Systematics–II

CO 1: Students will be able to **classify** some angiosperms.

CO 2: They will be able to **interpret** different components of various classification systems.

CO 3: They will be able to **dissect** flowers.

CO4: The students will be able to **extrapolate** the information about Diversity of flowering plants as illustrated by members of the different families.

Semester-V

Paper: V A Plant Physiology

CO 1: The student will be able to **compare** plant-water relations.

CO 2: The students will be able to **compile** deficiency diseases in plants.

CO 3: The students will be able to **apply** concepts of transport of organic substances in plants.

CO4: The students will be able to **draw relationships** between Photosynthesis, Photorespiration and CAM

Paper: V B Biochemistry and Biotechnology

CO 1: The students will be able **to simplify** the concepts of enzymology.

CO 2: The students will be able to **prepare model** of Respiration process in plants.

CO 3: The students will be able to **contrast** different steps in Nitrogen and Lipid Metabolism.

CO 4: This course will help students **to recognize** basic aspects of biotechnology.

Semester–VI

Paper: VI A Ecology

CO 1: The students will be able to **develop correlation** between Plants and different Components of environment.

CO 2: The students will be able to **draw relationship between** Community and population Ecology.

CO 3: This course will help students to **analyze** different biotic and abiotic components of ecosystem.

CO 4: This course will **appraise** students about Bio geographical Regions and Vegetation types of India.

Paper: VI B Economic Botany

CO 1: The students will be able **to compile** different food plants.

CO 2: The students will be able **to examine various** source of fibres and vegetable oils.

CO 3: The students will be able **to classify** different source of spices.

CO 4: The students will be able **to elaborate upon the** importance of different medicinal plants.

CO 5: This course will help the students to **evaluate the importance** of different sources of beverages and rubber in our life.

Name of Programme: M.Sc. Botany

Program Outcomes

PO 1: This programme brings together the graduates who wish to enhance their skills and gives them an opportunity to develop their careers in a particular direction.

PO 2: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 3: The programme tends to expertise students in practical work and experiments based on the same so that they can analyze the data effectively.

PO 4: The students will be able to exhibit the capability to study the social and ethical aspects as well as cognizance of ethical facets of research and development work.

PO 5: The masters of science programme provides the candidate with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, entrepreneurship or public administration etc.

Program Specific Outcomes

PSO 1: Broad understanding of plant word: Students will able to establish relationship between various categories of plants starting from primitive ones to advance plants.

PSO 2: Deep knowledge of morphology, anatomy, physiology and biochemistry of plants: Students will be able to differentiate different classes of plants like algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms on the basis of their morphology and anatomy.

PSO 3: Advance techniques: students will able to interpret data related to plants on the basis of advance techniques of plant biochemistry, plant molecular biology, plant tissue culture and microbiology etc.

PSO 4: Understanding of data generated through modern biological experiments and their analysis using bioinformatics tools.

PSO 5: Research and Inquiry: Students will be able to conduct basic research in botany and other allied subjects, publish and present their findings at conferences, seminars, scientific journals, lectures meetings.

Course outcomes

Semester- I

Paper: BOT C512 Fungi and Plant Pathology

CO 1: To **classify** members of Gymnomycota and Mastigomycota and Amastigomycota.

CO 2: To **evaluate** Principles and methods for the prevention and control for plant diseases.

CO 3: The students will able to **dissec**t plant material and identify diseases.

CO 4: The students will able to **interpret** the role of sex hormones and mycorizal association in fungi.

Paper: BOT C514 Plant Physiology

CO 1: The students will be able to **determine** Plant-Water Relation and energy thermodynamics in plants.

CO 2: The students will be able to **compare** steps in nitrogen and sulphur metabolism in plants.

CO 3: The students will be able **to elaborate** signal transduction in plants

CO 4: The students will be able **to compare** nitrate assimilation and carbon metabolism.

CO 5: This course will help students **to deduct** Synthesis and function of glutathione.

Paper: BOT C516 Theoretical Biology

CO 1: This course will assist students **to compare** know linear, power and periodic function.

CO 2: This course will assist students **to distinguish between** Exponential and Logarithmic Functions.

CO 3: The students will be able **to solve** integration and probability problems.

CO 4: They will be able to **solve** problems based on Differentiation and Integration:

Paper: BOT C517 Genetics and Evolution

CO 1: The students **will develop** strong fundamental basics on fine structure, Properties and replication of genetic material.

CO 2: The students will be able **to elaborate** Genetic regulation of cell cycle, genetic Transposable Genetic Elements.

CO 3: The students will be able **to interpret** Regulation of Gene Expression in Prokaryotes.

CO 4: The students will be able **to draw relationship between** about Paleontology and Evolutionary History.

Paper: BOT C518 Phycology

CO 1: The students **will** be able **to classify** algae on the basis of Organization of thallus, structure of algal cell.

CO 2: The students **will** be able **to compare** algae on the food reserves, reproductive diversity, and life history patterns in Chlorophyta and Charophyta.

CO 3: **Identify** the external morphology, internal structure and reproduction of different types of algae and bryophytes

CO 4: This course will help students **analyze** possible economic importance of algae.

Paper: BOTC 519 Computer Applications and Bioinformatics

CO 1: T o **Create** Worksheet and Working with Formulae.

CO 2: To **develop** projects on MS Power Point

CO 3: To **apply** concept of Bioinformatics in Botany

CO 5: To **understand** Nucleic acid and protein databases.

Paper: BOT C522 Diversity and Biology of Gymnosperms

CO 1: **Distinguish** between habitat and habit, structure and complexity in various Gymnosperms.

CO 2: To be able to **compare** different orders of Gymnosperms.

CO 3: To **interpret** evolutionary tendencies in Gymnosperm.

CO 4: To **evaluate various** aspects of cytology in Gymnosperms.

Semester-II

Paper: BOT C523 General Microbiology

CO 1: To **apply** basic methodology in study of microorganism.

CO 2: They will **correspond** nomenclature and classification of plant viruses.

CO 3: To **relate** uses of microorganism in Environment and Industry

CO 5: T0 **develop** simple SOP for control of Microorganisms in lab

Paper: BOT C524 Cell Biology

CO 1: To be able to **grade** cells according to basic level of structural organization of cell.

CO 2: The **correlate** structural organization and function of Intracellular Organelles.

CO3: To **differentiate** between organization of Genes and Chromosomes.

CO 4: To **explain** cell division and cell cycle.

CO 5: To **evaluate** different components of cell communication.

Paper: BOT C527 Bryology

CO 1: To **differentiate** between Bryophytes on basis of their habitat and habit, structure and complexity.

CO 2: They will know **comparative** account of gametophytes and sporophytes in Bryophytes.

CO 3: To **elaborate** evolutionary tendencies in Evolution of gametophyte and sporogonium in liverworts and mosses.
CO 4: To **contrast** Means of spore dispersal.
CO 5: To **comprehend** different characteristics of bryophytes.

Paper: BOT C 528 Pteridology

CO 1: **Comprehend** different theories in origin of Pteridophytes.
CO 2: **Evaluation of** general characters and classification of pteridophytes.
CO 3**: Compare** account of different orders of Pteridophytes.
CO 4: **Contrast** different kind of vegetative reproduction in Pteridophytes.
CO 5: **Appraisal** about uses of Ferns in phytoremediation.

Paper: BOT C529 Ecological Modelling and Forest Ecology

CO 1: To be able to **draw** population growth graph and factors affecting growth.
CO 2: To **infer** correlative interaction between Two Species.
CO 3: To **correlate** association analysis and community classification.
CO 4: To **show relationship** between production and energy flow in ecology.

Semester-III

Paper: BOT C612 Developmental Botany

CO 1: To **compare** different kind of pollination methods in angiosperms.
CO 2: **Depict** different steps of fertilization.
CO3: **Dissect** different kind of endosperm and embryo formation.
CO 4: **Demonstrate** different aspects of Embryology & Taxonomy:

Paper: BOT C613 Plant Molecular Biology

CO 1: **Exhibit** DNA and RNA structure.
CO 2: **Depict** different steps and tools in Recombinant DNA technology.
CO 3: **Conduct practical** on various molecular biology techniques.
CO 4: **Correlate** between Genomics and proteomics.
CO 5: **Interpret** different Roles of Recombinant DNA technology.

Paper: BOT C614 Plant Breeding and IPR

CO 1: **Distinguish** between Primary and secondary centers of diversity.
CO 2: **Differentiate** between different breeding systems of crop species.
CO 3: **Illustrate** breeding methods for disease resistance crops production.
CO 4: **Describe** different kinds of mutations and their role in crop production.

Paper: BOT C615 Plant Biochemistry

CO 1: **Elaborate** Plant-Cellular chemistry.
CO 2: **Illustrate** carbohydrates metabolism in plants.
CO 3: **Exemplify** Lipid Metabolism in plants
CO 4: **Construct** various graphs related to Enzyme kinetics.

Paper: BOT C616 Applied Botany

CO 1: **Classify** food plants according to history, source and nature..
CO 2: **Categorise** recognize different kind of forest products and their sources.
CO 3: **Develop** plant products.
CO 4: **Identify** fibre yielding plants.

Paper: BOT C617 Plant Morphogenesis

CO 1: **Draw Correl**ation between Physiology and genetics of Plant Morphogenesis.
CO 2: **Correspond** symmetry and differentiation in plant tissue culture.
CO 3: **Depict** regeneration and different kind of tissue mixture used.
CO 4: **Illustrate** Abnormal Growth of organs.
CO 5: **Identify** different morphogenetic factors.

Semester-IV

Paper: BOT C621 Plant Anatomy

CO 1: **Correlate** between shoot and root system in pants.
CO 2: **Illustrate** Nodal and Floral anatomy.
CO 3: **Characterize** histology of wood.
CO 4: **Portray** Functional anatomy, fruit and Seed anatomy.
CO 5: **Render** different kind of Laticifers and Lenticels tissues.

Paper: BOT C622 Structure and Metabolism of Plant Hormones

CO 1: **Interpret** general features of Plant Hormones, their analysis, and quantitation.
CO 2: **Compile** information about Auxins and Gibberlins.
CO 3: **Compile** information Cytokinins, Ethylene and Absicic acid.
CO 4: **Arrange** and use information about Jasmonates and other Defense-Related Compounds.
CO 5: **Understand** Microbial Synthesis of Plant Hormones.

Paper: BOT C623 Plant Tissue Culture and Biotechnology

CO 1: To **illustrate** Cytogenetics and differentiation in cell and tissue culture.
CO 2: To **perform experiments** based on artificial seeds production.
CO 3: To **exemplify** transgenic plants.
CO 4: To **demonstrate** cell culture and secondary metabolites production.
CO 5: To **apply** Cryobiology of plant cell cultures.

Paper: BOT C624 Analytical Techniques

CO 1: **To develop** the skills to understand the theory and practice of bio analytical techniques.
CO 2: **Compile** scientific understanding of analytical techniques and detail interpretation of results
CO 3: **Classify** of chromatographic techniques and their principles
CO 4: **To develop the skills** to select analytical technique for case study
CO 5: To **design** experiments and understand the instrumentation

Paper: BOT C626 Diversity and Biology of Angiosperms

CO 1: To **develop** historical perspective of plant classification.
CO 2: **To compile** principles of plant nomenclature and different classification system.
CO 3: To be able to **categorize** plants according to taxonomic principles
CO 4: To be able to **ascertain** different Taxonomic tools
CO 5: To be able to correlate plants distribution according to phytogeography regions of the world and India.

Paper: BOT C725 Immunology (Optional Paper)

CO 1: To **comprehend** the Immune System.
CO 2: The course will allow students to **demonstrate** Antigens and Antigen Recognition.
CO 3: To **illustrate** Antibodies and their properties.
CO 4: To **expedite** different cells and tissues of Immunity.

Post Graduate Department of Bioinformatics
Name of Programme: B.Sc. Medical/Non-Medical with Bioinformatics

PO1: Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PO2: Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO3: Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO4: Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO5: Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO6: Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.

PO7: Self-reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Course Outcomes

Semester-I

Paper: Fundamentals of Computers, Molecular Biology & r-DNA technology

CO 1: Students will be able to use MS Excel, MS Word and MS PowerPoint

CO 2: Students will understand the processes of replication, transcription & translation in molecular biology

CO 3: Students will be able to demonstrate molecular mechanism(s) behind a biological process and its expression?

CO 4: Students will be able to identity various tools used for cloning

Semester-II

Paper: Basic Mathematics, Biostatistics, DBMS

CO 1: Students will be able to classify various DBMS

CO 2: Students will be skilled to design and create a database

CO 3: Students will be able to apply basic statistics to data

CO 4: Students will gain basic knowledge of mathematical functions including trigonometric, differential

CO 5: Students will be confident in dealing with multi-dimensional data using matrices, different operations on matrices

Semester-II

Paper: Introduction to Biological Databases

CO 1: Students will be able to classify various Bioinformatics databases

CO 2: Students will be able to experiment with biological data mining using various databases

CO 3: Students will be able to know various database retrieval and deposition systems work

CO 4: Students will differentiate between various formats of biological data and know which format is suitable for a particular application.

Semester-IV

Paper: Computer Programming in C++ and Perl

CO 1: Students will be able to differentiate between C++ and PERL and know the effectiveness of PERL in handling biological data

CO 2: Students will be able to retrieve a specific data from a large text files of different formats

CO 3: Students will be able to select, install and use various BIOPERL Libraries for analysis of biological data

CO 4: Students will be able to **w**rite simple programs to analyze molecular sequence data

Semester-V

Paper: Computational Methods for Sequence Analysis

CO 1: Students will know how to compare DNA/Protein sequences

CO 2: Students will be able to classify proteins based on their structural features

CO 3: Students will be able to identify various signals from raw data which can be used to create prediction models using Machine Learning algorithms

CO 4: Students will be trained to predict secondary structure of proteins

CO 5; Learners will be able to choose right methods for evolutionary analysis based on the underlying data

Semester-VI

Paper: Structural Biology and Molecular Modelling

CO 1: Students will understand the basic concepts of molecular modeling

CO 2: Students will be able to apply concepts of molecular modelling to represent chemical information on computers and concept of force field

CO 3: Students can use computers to study molecular interactions

CO 4: Students will be able to choose a strategy for computer aided drug design

Name of Programme: M. Sc. Bioinformatics

Program Outcomes

PO 1: This programme brings together the graduates who wish to enhance their skills and gives them an opportunity to develop their careers in a particular direction.

PO 2: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 3: The programme tends to expertise students in practical work and experiments based on the same so that they can analyse the data effectively.

PO 4: The students will be able to exhibit the capability to study the social and ethical aspects as well as cognizance of ethical facets of research and development work.

PO 5: The masters of Science programme provides the candidate with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, entrepreneurship or public administration etc.

Programme Specific Objective

PSO 1: **Broad understanding of Biology:** Students will interpret relationships among living things. They can also analyse and solve biological problems from the molecular to ecosystem level using basic biological concepts, grounded in foundational theories.

PSO 2: **Deep knowledge of various types of biological data:** Students will be able to specifically access, retrieve, store and manipulate data from various databases.

PSO 3: **Data Analytics:** Students will be able to devise a strategy and develop efficient algorithms to extract biological knowledge from complex and challenging dataset.

PSO 4: **Computer Programming:** Students will develop new software's applications or improve on current applications that facilitate biological data analysis

PSO 5: **Research and Inquiry:** Students will be able to conduct basic bioinformatics research, publish and present their findings at conferences, seminars, scientific journals, lectures meetings.

Course Outcomes

Semester-I

Paper: BI-511 Basic Concepts in Biology

CO 1: Students will be able to classify different types of living cells and biomolecules and their functions

CO 2: Students will be able to sketch various organelles

CO 3: Students will be able to demonstrate how a biological process is invoked in response to some stimuli?

CO 4: Students will be able to distinguish between various biological processes

Paper: BI-512 Database Management and Data Mining

CO 1: Students will be able to classify various DBMS

CO 2: Students Will be able to model a database using ER diagram

CO 3: Learners will be able to evaluate various data mining strategies

CO 4: Students will be skilled to design and create a database

Paper: BI-512 Basic Biostatistic

CO 1: Students will be able to apply basic statistics to data

CO 2: Students can construct various types of Graphs

CO 3: Students will be able to apply principles of probability to analyze biological data

CO 4: Students will be able to use advance statistics such as Correlation regression, hypothesis testing

Paper: BI-514 Computer Fundamentals, Networking, Web Technology and Basics of C Programming Language

CO 1: Students will be able to use MS Excel, MS Word and MS PowerPoint

CO 2: Students will be able to utilize internet to for data search, retrieval and communication

CO 3: Students will be able to create an HTML document

CO 4: Students will be able to write a C Program

Paper: BI-515 Introduction to Bioinformatics & Biological Databases

CO 1: Students will be able to distinguish between various types of biological data

CO 2: Students will be able to experiment with biological data mining using various databases

CO 3: Students will be able to classify various Bioinformatics databases

CO 4: Students will be able to know various database retrieval and deposition systems work

CO 5: Students will differentiate between various formats of biological data and know which format is suitable for a particular application.

Paper: BI-516 Practicals Based on Database Management & Computer Fundamentals Web Technology and Basics of C Programming Language

CO 1: Students will be able to use Linux and DOS commands on their own data

CO 2: Students will be skilled to design and create a database and perform various operations

CO 3: Students will be able to install Linux and Windows on their computers

CO 4: Students will be able to create an HTML document

CO 5: Students will be able to write a C Programs

Paper: BI- 517 Practical's Based on Biological Databases

CO 1: Students will be gain ability to explore data for different types of research work

CO 2: Students will know the tricks to access specific sequence and structural data from various biological databases

CO 3: Students will be confident to search and install a variety of Open Source tools to analyze biological data

CO 4: Students will be able to know various database retrieval and deposition systems work

CO 5: Students will differentiate between various formats of biological data and know which format is suitable for a particular application

Semester-II

Paper: BI-521 Concepts in Molecular Biology & r-DNA Technology

CO 1: Students will understand the processes of replication, transcription & translation in molecular biology

CO 2: Students will be able to make a comparison between Eukaryotic and Prokaryotic Molecular mechanisms

CO 3: Students will be able to demonstrate molecular mechanism(s) behind a biological process and its expression?

CO 4: Students will be able to identity various tools used for cloning

Paper: BI-522 Programming in PERL for Bioinformatics

CO 1: Students will know the **i**mportance and effectiveness of PERL in handling biological data as compared to other programming languages

CO 2: Students will be able to retrieve a specific data from a large text files of different formats

CO 3: Students will be able to select, install and use various BIOPERL Libraries for analysis of biological data

CO 4: Students will be able to **w**rite programs to analyze biological data

Paper: BI-523 Basic Mathematics

CO 1: Students will gain basic knowledge of mathematical functions including trigonometric, differential

CO 2: Students will be confident in dealing with multi-dimensional data using matrices, different operations on matrices

CO 3: Students will be able to apply the concepts of Differentiation and Integration for dealing with biological data

Paper: BI-524 Computational Methods for Sequence Analysis

CO 1: Students will be able to use with various software and databases used in analysis of sequence and structural data

CO 2: Students will be able to differentiate among different algorithms used to analyze sequence data

CO 3: Students will be able to identify various signals from raw data which can be used to create gene prediction models

CO 4: Students will be able to model a pipeline to analyze biological data using various algorithms

CO 5: Learners will be able to choose right methods for evolutionary analysis based on the underlying data

Paper: BI-525 Structural Biology and Bioinformatics

CO 1: Students will be able to classify various molecular structure determination methods

CO 2: Students will be able to apply protein classification methods

CO 3: Students can distinguish between various protein secondary structure prediction algorithms

CO 4: Students will be able to predict three dimensional model from a protein sequence

Paper: BI-526 Practical based on BI-522 (PERL and Bioperl)

CO 1: Students will be to apply logical thinking
CO 2: Students will be able to retrieve a specific data from a large text files of different formats
CO 3: Students will be able to select, install and use various BIOPERL Libraries for analysis of biological data
CO 4: Students will be able to write programs to analyze biological data
CO 5: Students will be write programs to access remote as well as local databases

Paper: BI-527 Practical's Based on Structural Biology and Bioinformatics

CO 1: Students will be able to use with various software and databases used in analysis of sequence and structural data
CO 2: Students can analyze protein structures using various Molecular graphics packages
CO 3: Students will be able to retrieve protein structures and classify them
CO 4: Students will be skilled in modelling 3D structure of proteins

Semester-III

Paper: BI-631 Genomics and Proteomics

CO 1: Students will be skilled to analyze genomic data to mine its various components
CO 2: Students will be able to distinguish various genome mapping techniques
CO 3: Students can demonstrate the use of various software tools/web servers for comparing genomes
CO 4: Students will be skilled in creating protein-protein interaction maps using various tools
CO 5: Students will be able to classify various proteomics techniques and their applications

Paper: BI-632 Advanced Algorithms for Computational Biology

CO 1: Students will interpret about the concept of computer algorithms
CO 2: Students will be able to distinguish between different algorithms such as divide and rule, genetic algorithms, machine learning etc.
CO 4: Students will be able to choose right algorithm for a specific type of data

Paper: BI-633 System Biology and Metabolic Pathway Eng.

CO 1: Students know various principles of Systems Biology
CO 2: Students will be acquainted with different protein-protein interaction and pathway databases
CO 3: Students will be able to examine various types of biological switches to control gene expression
CO 4: Students will be able to model a biological system

Paper: BI-634 Molecular Modeling and Computer Aided Drug Design

CO 1: Students will be able to apply concepts of molecular modelling to represent chemical information on computers and concept of force field
CO 2: Students will able to use of molecular modeling to discover and design new molecules
CO 3: Students will be able to differentiate among various molecular descriptors
CO 4: Students can be able to decide the statistical model to be used to represent a QSAR
CO 5: Students will be able to identify diversity of drug targets and biological relevance
CO 6: Students will be able to choose a strategy for computer aided drug design

Paper: BI-635 Introduction to Data Analysis using R Programming

CO 1: Students will know the **i**mportance and effectiveness of R language in analysis of biological data as compared to other platforms
CO 2: Students will be able to use various R objects to handle specific type of data

CO 3: Students can be able to read big data from local as well as remote locations
CO 4: Students can be able to statistically analyze biological data
CO 5: Students can be able to decide the type of graphics to visualize and analyze a particular type of data
CO 6: Students will be able to write R scripts

Paper: BI-636 Practical's Based on BI-633 and BI-634 (System Biology and Metabolic Pathway Engineering and Molecular Modeling and Computer Aided Drug Design)

CO 1: Learners will be able to perform Molecular Docking and Molecular Dynamics Simulations and analyze its results
CO 2: Students will be efficient in searching metabolic pathway databases
CO 3: Students will be able to interpret a protein-protein interaction network
CO 4: Learners will be able to develop a QSAR model for the given data
CO 5: Students will be able to develop a Computer Aided Drug Discovery pipeline

Paper: Practical's based on Practicals based on BI-631 & 635 (Genomics and Proteomics and R)

CO 1: Students can demonstrate the use of various software tools/web servers for comparing genomes
CO 2: Students will be skilled in creating protein-protein interaction maps using various tools
CO 3: Students can be able to statistically analyze biological data and build pipelines and R scripts for analysis
CO 4: Students can be able to decide the type of graphics to visualize and analyze a particular type of data

Seminar on Emerging Trends in Bioinformatics

CO 1: Students will be able to survey latest research articles and research areas to choose the topic of their Seminar
CO 2: Students will be learn to present their ideas in form of a PowerPoint presentation

Paper: Industrial / Institutional Visit

CO 1: Students will get opportunity to interview scientists on their research areas
CO 2: Students will get opportunity to discover real life applications of various concepts

Semester-IV

Paper: BI-640 Major Research Project

CO 1: Students will learn Data mining
CO 2: Student will know to analyze and interpret results
CO 3: Students will be able to decide working on a specific problem, defend and explain the outcomes
CO 4: Students will be able to design a research hypothesis and plan its implementation

Add-on Certificate

CO 1: Students will be able to experiment with various application of Bioinformatics
CO 2: Students will be able to classify various Bioinformatics databases
CO 3: Students will be able to know various database retrieval and deposition systems work
CO 4: Students will differentiate between various formats of biological data and know which format is suitable for a particular application.

Add-on Diploma

CO 1: Students will be able to analyze biological data at sequence as well as structure level
CO 2: Students will be able to model a protein structure from its sequence
CO 3: Students will be able to choose right parameters for data mining for example Homology search using Blast
CO 4: Students will be able to distinguish between various statistical prediction models

Add-on Advanced Diploma

CO 1: Students will be able skilled to model a protein and study its interactions with other molecules

CO 2: Students will apply various strategies of computer aided drug design

CO 3: Students will be able to write computer program in PERL

CO 4: Students will be able to choose right methods for evolutionary analysis based on the underlying data

Post Graduate Department of Physics

Name of Programme: B.Sc. (Non-Medical)/ (Computer Science)

Programme Outcomes

PO 1 Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PO 2 Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO 4 Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO 5 Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.

PO 7 Self reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Program Specific Outcomes

Physics

PSO 1: To comprehensively study about simple harmonic motion and different types of oscillators. To understand the basic concepts of wave motion and its propagation through different media.

PSO 2: To understand the basic laws of symmetry of space and time. Also, to study the system under central forces.

PSO 3: To study the concepts of General theory of relativity and special theory of relativity and to implement them to study various phenomena.

PSO 4: To assimilate the concept of Electric and Magnetic fields and their applications.

PSO 5: To study the basis of Statistical and Quantum mechanics and their applications to various physical processes.

PSO 6: To study the applications of Interference and diffraction of light.

PSO 7: To understand the basic concepts of atomic and molecular spectra and to apply them to study spectra of one electron and many electron atoms as well as Raman Spectroscopy.

PSO 8: To give a brief introduction of different types of Laser, their working and applications.

PSO 9: To introduce the concept of crystal lattice and lattice dynamics

PSO 10: To understand basic electronic devices and their applications in different electronic circuits.

Course Outcomes

Semester-I

Paper: Mechanics

CO 1: Students will be able to classify different coordinate systems and apply the knowledge to find various physical quantities in different co-ordinate system

CO 2: Students will be able to reduce two body problem into one body problem using concept of reduced mass.

CO 3: Students will be able to understand motion of a body under central forces and apply the concept to Planetary motion.

CO 4: Students understand the concept of inertial/ non-inertial frames apply the concept to explain some phenomenon in daily life.

CO 5: Students will understand elastic collisions in lab and C.M systems and will apply the concept to understand Rutherford scattering.
CO 6: Students will appreciate the concept of precession and its applications as elementary gyroscope.

Paper: Electricity and Magnetism
CO 1: Students will recall the basic ideas of vector calculus and will be able to apply it to vector fields.
CO 2: Students will understand the concept and evaluate Electric field and potential difference due to different types of distribution of charges.
CO 3: Students will be transform the Electric and magnetic fields and related quantities in different inertial fields.
CO 4: Students will understand and apply the concept of electrical images to find electric field.
CO 5: Students will be able to classify the materials on the basis of their magnetic properties and their behaviour in the magnetic field.

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Semester-II
Paper: Relativity and Electromagnetism
CO 1: Students will be able to understand the special theory of relativity.
CO 2: Students will understand the concept of Minkowski space and four vector formulism
CO 3: Students will learn about Hall effect and its applications.
CO 4: Students will understand the concept of coupling of electrical circuits and their applications
CO 5: Students will know about the fundamentals of E.M Waves and response of different media to E.M Waves.

Paper: Vibrations and Waves
CO 1: Students will recall the concept of simple Harmonic Motion and compare free, damped and forced oscillators.
CO 2: Students will be able to apply the concept of damped and forced oscillators to electrical devices.
CO 3: Students will be able to evaluate the normal mode of oscillations for coupled oscillators.
CO 4: Students will understand and will be able to apply the concept of impedance matching for propagation of wave through different media.
CO 5: Students will understand the basic theory of Electromagnetic waves and their propagation through free space and some medium

Semester-III
Paper: Statistical Physics
CO 1: Students will understand about the basic laws of statistical physics and its scope.
CO 2: Students will be able to explain the Concept of microstate, macrostate and Phase space.
CO 3: Students will compare the basic approaches of Maxwell Boltzmann, Bose Einstein and Fermi Dirac statistics.
CO 4: Students will learn about the concept of entropy and its application to explain various natural phenomena.
CO 5: Students will develop Maxwell Thermodynamics relations and their applications in different processes.

Paper: Optics and Lasers
CO 1: Students will learn about interference of light by division of amplitude and wave front.
CO 2: Students will apply the concept of interference of light in non-reflecting thin films and optical devices.
CO 3: Students will understand concept of polarization and apply it to produce and analyze polarized light
CO 4: Students will be explain about construction and application of Nicol prism, Quarter and Half wave plate.

CO 5: Students will understand the fundamentals of Laser and learn about various processes involved in LASER action

CO 6: They will learn the principle, Construction and working of different lasers: Ruby laser, Nd:YAG laser, He-Ne and Carbon dioxide laser.

Semester-IV

Paper: Quantum Mechanics

CO 1: Students will understand about the formalism of Wave mechanics, Normalization and Probability interpretation of wave function.

CO 2: They will explain the concept of wave particle duality.

CO 3: The students will illustrate the applications of Uncertainty principle.

CO 4: Students will define the fundamental postulates of wave mechanics.

Paper: Atomic and Molecular Spectra

CO 1: Students will understand the one electron atomic spectra, and explain their fine structure

CO2: Students will learn concept of Vector model of atom.

CO 3: Students will understand the concept of LS, JJ Coupling schemes. Lande's-g factor will be introduced to them.

CO4: Students will explain spectra of many electron systems e.g. of Helium and Alkaline Earth Spectra.

CO5: Students will learn about Production of X-rays and their Spectra.

CO6: Students will learn about Rotational, Vibrational, electronic energy levels and spectra of molecules.

Semester-V

Paper: Condensed Matter Physics

CO 1: Students will understand about the basics of crystal structure and symmetries operation in two and three dimensional crystals.

CO 2: Experimental methods for crystal structure studies will be demonstrated to the students.

CO 3: Students will be able to understand various reciprocal lattice, construction of Brillouin Zone in Two and three dimensions.

CO 4: Concept of Phonons will be explained to the students. Moreover, they will be able to calculate the density of modes of vibrations.

CO 5: Students will understand about the basic concepts of band theory and compare between conductors, semi-conductors and insulator using Kronig-Penny model.

Paper: Nuclear Physics

CO 1: Students will recall about the constituents of nucleus and various properties of nucleus.

CO 2: Students will classify various modes of decay of radioactive nuclides and the laws governing the radioactive decay.

CO 3: Students will compare between different types of nuclear reactions, their reaction cross section and conservation laws followed by them.

CO 4: They will be explained different Nuclear models- Liquid drop model and shell model.

Semester-VI

Paper: Electronics

CO 1: Students will find about the junction diodes and their applications.

CO 2: Students will explain about different transistors and the characteristics of their different configurations.

CO 3: Students will construct h parameters and outline their use for amplifier analysis.

CO 4: They will understand the concept of feedback and use of negative feedback in amplifiers.

CO 5: They will understand Barkausen condition for sustained oscillations as well as construction and working of different types of oscillators.

Paper: Radiation and Particle Physics

CO 1: Students will list various types of accelerators used for accelerating the charge particles.

CO 2: They will understand Large Hadron Collider, which is world's largest accelerator.

CO 3: Different modes of interaction of heavy charge particle with matter will be compared. They will learn how the incident particle losses its energy when it enter into the matter.
CO 4: Students will explain Bethe-Bloch formula which tells about the energy loss per unit length when a charged particle enters into the matter.

Name of Programme: M.Sc. (Physics)
Programme outcomes

PO1: **Lifelong learning**: To develop a conceptual understanding of principles and importance of Physics and various components of analytical techniques.
PO2: **Critical thinking**: To develop the aptitude of critically analyzing with application of Physical and Chemical sciences.
PO3: **Creative thinking**: To create, select and apply appropriate techniques, resources and modern technology in a multidisciplinary way.
PO4: **Develop Research Aptitude**: To develop problem-solving skills and to encourage them to carry out innovative research projects thereby making them to use knowledge creation in depth.
PO5: **Interdisciplinary approach**: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
PO6: **Scientific Aptitude**: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.
PO7: **Self-reliant and responsible citizens**: To make the students knowledgeable and disciplined with good moral values. Also to make them capable of applying their acquired knowledge to work on their own hence make themselves self-reliant and self-sufficient.

Course Outcomes
Sem-I
Paper: Electronics

CO 1: Students will be able to explain the construction, working and applications of Power electronic devices (like MOSFET, SCR,UJT) and also to evaluate their characteristic parameters.
CO 2: Students will be able to classify different types of multi-vibrators and evaluate the transistor parameters for different applications.
CO 3: Students will be able to appraise the uses of operational amplifiers for different applications.
CO 4: Students will be able to categorize electronic analog computational circuits.
CO 5: Students will be able to design logic circuits using Boolean expressions.
CO 6: Students will be able to simplify logic circuits using K-Maps.
CO 7: Students will be able to explain the working of encoder/ decoder, Multiplexer/de-multiplexer, parity generator and design the circuits for different applications
CO 8: Students will be able to summarize the construction, working and applications of sequential circuits (flip-flops, Registers, Up/Down counters, AD/DA Convertors.)

Paper: Mathematical Physics
CO 1: Students will apply Fourier decomposition to Wave theory.
CO 2: Students will make use of Frobenius method to solve differential equations.
CO 3: Students will solve Sturm Lioville problem.
CO 4: Students will construct Generating functions for Bessel, Legendre function.
CO 5: Students will calculate the real integrals.
CO 6: Students will learn Lorentz series and apply it to various functions.
CO 7: Students will define three dimensional rotation group and SU(2).

Paper: Classical Mechanics
CO 1: Students will apply Lagrange equations of motion to solve various physical problems.
CO 2: Students will be able to derive Lagrange equations from Hamilton's principle.

CO 3: Students will understand variational principle and construct Hamilton's equations for different physical systems
CO 4: Students will be able to reduce two body central force problem to one body problem
CO 4: Students will be able to apply the concept of central force field to planetary motion and Rutherford scattering
CO 5: Students will be able to find inertia tensor and find their eigen values and principal axis transformations
CO 6: Students will develop infinitesimal canonical transformations and conservation theorems.

Paper: Computational Techniques

CO 1: Students will learn the basics of MATLAB and will be able to work with arrays, creating and printing plots.
CO 2: Students will be able to work with interacting computation techniques and array operations.
CO 3: Students will be able to do programming in MATLAB.
CO 4: Students will be able to do interpolation of functions or graphs using different methods.
CO 5: Students will be able to learn and apply different methods for numerical differentiation and integration (like Monte- Carlo Method, Euler's method, Modified Euler's method, Runge-Kutta Method).
CO 6: Students will be able to find the approx. the roots of algebraic equations using Bisection Method, Regula-Falsi Method, Newton-Raphson method.
CO 7: Students will be able to find the solutions of simultaneous linear algebraic equations using Gauss elimination method, Gauss-Jordon method, Matrix inversion.

Paper: Electronics Lab

CO 1: Students will be able to assemble the circuit of DIAC, TRIAC, SCR, UJT and MOSFET to study their characteristics and applications.
CO 2: Students will be able to assemble bi-stable, mono-stable and a-stable, multi-vibrators and study their outputs
CO 3: Students will be able to design scalar, summer, differentiator and integrator circuits using operational amplifier
CO 4: Students will be able to construct various logic circuits from discrete electronic elements.
CO 5: Students will be able to explain various components of Encoder/Decoder
CO 6: Students will be able to demonstrate the working of half adder and full adder.
CO 7: Students will be able to explain the components and working of Arithmatic and logic unit.
CO 8: Students will be able to demonstrate different operations of shift registers.

Paper: Computer Lab

CO 1: Students will be able to use MATLAB programming for finding the roots of equations using Bisection Method, Newton- Raphson Method and Secant Method.
CO 2: Students will be able to use MATLAB programing for integrating the functions using Trapezoidal rule, Simpson 1/3, Simpson 3/8 rule and Gaussian Quadrature rule
CO 3: Students will be able to find solutions of differential equations using MATLAB programming.
CO 4: Students will be able to apply MATLAB programming to interpolate the graph /functions using Forward interpolation, Backward interpolation and Lagrange's interpolation.
CO 5: Students will be able to apply MATLAB programming to physical problems like Chaotic Dynamics, logistic map, One dimensional Schrondinger Equation, Time period calculation for a potential, Luminous intensity of a perfectly black body vs. temperature.

M.Sc. Sem-II

Paper: Quantum Mechanics – I

CO 1: Students will be introduced the concept of linear vector space,ket-bra space and their operations
CO 2: Students will be introduced to the concept of representation of the commutation relations in different dimensions.

CO 3: Students will study time evolution operator, Schrodinger equation and special role of the Hamiltonian operator

CO 4: Students will solve Eigen value problem for L^2, spherical harmonics. Three dim harmonic oscillator, three dim potential well and the hydrogen atom

CO 5: Students will be Introduced to the concept of representation of the commutation relations in different dimensions.

CO 6: Students will be find Eigen vectors and eigen functions of J^2 and J_z. C.G. coefficients

CO 7: Students will to solve Schrodinger equation for physical systems like Simple harmonic oscillator, potential barrier, potential well etc

Paper: Electrodynamics-I

CO 1: Students will calculate Green's function for the image charge problem in the case of a sphere

CO 2: Students will solve Boundary value problems in dielectrics.

CO 3: Students will determine Magnetic moment, force and torque on a magnetic dipole in an external field

CO 4: Students will understand the Time varying fields and derive Maxwell's equations

CO 5: Students will understand Lorentz Gauge, Coulomb's Gauge and gauge transformations

CO 6: Students will appreciate Poynting theorem and derive conservation laws..

CO 7: Students will be able to recall the concept of polarization and different methods of polarization.

CO 8: Students will study propagation of waves in dispersive medium and conductive medium.

Paper: Atomic and Molecular Spectroscopy

CO 1: Students will learn the concept of Space quantization of orbital, spin and total angular momenta and vector model for one and two valence electron atom.

CO 2: Students will be able to learn and rephrase the Spectroscopic notations for L-S and J-J couplings; Spectra of alkali and alkaline earth metals

CO 3: Students will learn to apply Selection and Intensity rules for doublets and triplets in one electron atoms

CO 4: Students will be able to understand the various factors of broadening of spectral lines.

CO 5: Students will be able to understand the fundamentals of splitting of spectral lines due to presence of external magnetic field and electric field.

CO 6: Students will be able tolearn the basics of Microwave spectrum of polyatomic molecules and Raman spectra of molecules

CO 7: Students will be able to learn the outline of technique and instrumentation involved in Fourier transform spectroscopy.

CO 8: Students will be able to determine the structure of molecules using Raman and Infraed spectroscopy.

Paper: Condensed Matter Physics

CO 1: Students will learn different theories of lattice specific heat of solids.

CO 2: Students will be able to explain the propagation of Elastic waves in cubic crystals and calculate Elastic constants of cubic crystals.

CO 3: Students will be able to identify different point defects, line defects, dislocations and colour centres in crystal structure.

CO 4: Students will be able to explain different theories responsible for electrical conduction in solids

CO 5: Students will be able to evaluate electronic and ionic polarizability.

CO 6: Students will be able to classify different ferroelectric crystals and explain thermodynamics of ferroelectric transitions.

Paper: Condensed Matter Physics Lab

CO 1: Students will be able to calculate Hall coefficient of semiconductor materials.

CO 2: Students will be able to evaluate the band gap of semiconductor

CO 3: Students will be able to calculate magnetic susceptibility of the materials

CO 4: Students will be able to use ESR Spectrometer to find g-factor
CO 5: Students will be able to make use of four probe method to calculate band gap.
CO 6: Students will be able to evaluate the magnetic parameters by examining the hysteresis loop.
CO 7: Students will be able to evaluate the the di-electric constant.
CO 8: Students will be able to evaluate the parameters and characteristics of Photo-voltaic cell

Paper: Spectroscopy Lab

CO 1:Students will be able to estimate the wavelength of light using Fabry Perot interferometer and Michelson's interferometer.
CO 2: Students will be able to calibrate constant deviation spectrophotometer and calculate the unknown wavelength of light.
CO3: Students will be able to determine the grating element of the diffraction grating using He-Ne laser light.
CO 4: Students will be able to demonstrate the existence of Bohr's energy levels with Frank-Hertz experiment.
CO 5: Students will be able to demonstrate normal Zeeman Effect and determine the charge to mass ratio (e/m) of an electron.
CO 6: Students will be able to determine the velocity of ultrasonic waves in a liquid using ultrasonic interferometer

M.Sc . Sem –III

Paper: Quantum Mechanics-II

CO 1: Students will understand the concept of first and second order Perturbation Theory for non-degenerate and degenerate systems.
CO 2: Students will be able to understand first order time dependent perturbation theory calculate transition probability per unit time for harmonic perturbation.
CO 3: Students will understand the concept of Born Approximation and apply it to square well potential
CO 4: Students will be able to derive Klein Gorden Equation and Dirac equation and find their solutions.
CO 5: Students will be able to understand the Parity operator and its action on states.
CO 6: Students will be introduced to identical particles in Quantum Mechanics.
CO 7: Students will understand symmetrisation postulates and their application to 2-electron systems.

PAPER: Electrodynamics –II

CO1: Students will be able to learn and apply the concept of wave guides to find modes of propagation in cylindrical and rectangular wave guides.
CO2: Students will be able to calculate energy flow and attenuation in wave guides.
CO3: Students will be learn about resonance cavities and their quality factor
CO4: Students will be able to recall the concept and relations of special theory of relativity.
CO5: Students will be able to understand the structure of space-time, four scalars, four vectors and tensors.
CO6: Students will be able to understand the formulation of relativistic mechanics and relativistic electrodynamics
CO7: Students will be able to calculate the field of radiations produced by oscillating charges, dipole and quadrupole.
CO8: Students will learn the principal and working of centre fed antenna.
CO9: Students will be able to calculate the angular distribution of radiation emitted by an accelerated charge and power radiated by it.

Paper: Nuclear Physics

CO 1: Students will be able to understand theories to explain nuclear forces
CO 2: Students will be introduced to the concept of exchange forces and tensor forces.
CO 3: Students will understand Iso-spin formalism - Charge independence and charge symmetry of nuclear forces

CO 4: Students will be distinguish between various nuclear drop models- Shell model, Collective model, Nilsson Model.
CO 5: Students will understand theories of beta decay, Gamma Decay and neutrino decay
CO 6: Students will be able to apply the concept of parity violation to study allowed and forbidden states.
CO 7: Students will learn about Direct and compound nuclear reaction mechanisms and formation of compound nucleus.
CO 8: Students will be able to apply the concept of cross sections in terms of partial wave amplitudes to resonance scattering.

Paper: Statistical Mechanics

CO 1:Students will be able to appreciate the contact between Statics and thermodynamics
CO 2: Students will understand the concept of phase space of classical systems, Liouville's theorem and its consequences
CO 3: Students will be able to differentiate between Micro Canonical, Canonical and Grand Canonical Ensemble.
CO 4: Students will be calculate density matrix in Phase space and Quantum States and apply to solves various Physical problems
CO 5: Students will be able to apply concepts and thermo-dynamical behaviour of an ideal gas to distinguish between the gases of Photons and Phonons
CO 6: Students will be able to appreciate concepts of Equilibrium of White dwarf
CO 7: Students will understand the thermo-dynamical behaviour of an ideal Fermi gas, electron gas in metals

Paper: Condensed Matter Lab

CO 1: Students will be able to determine Stefan's constant using Boltzmann's Law
CO 2: Students will be able to calculate Curie temperature of ferrites
CO 3: Students will study the depletion capacitance and its variation with reverse bias in a p-n junction
CO 4: Student will study the optical Band gap using UV-Visible spectrophotometer
CO 5: Students will be able to determine the energy loss in the ferrites at room temperature
CO 6: Students will be able to determine the lattice dynamics and dispersion relation for the monatomic and diatomic lattices
CO 7: Students will be able to find thermo-luminescence of f-centres in Alkali Halide Crystals

Paper: Nuclear Physics Lab

CO 1: Students will study the characteristics of a G.M. Counter.
CO 2: Students will be able to determine the Dead time of a G.M. Counter
CO 3: They will investigate the statistics of radioactive measurements.
CO 4: Students will study absorptions of Beta Particles in Matter
CO 5: Students will study Poisson Distribution and Gaussian Distribution using GM Counter.
CO 6: Students will be able to study absorption of gamma rays in matter and analyse Pulse-height of Gamma ray spectra

M.Sc. Sem –IV

Paper: Particle Physics

CO1: The student will have an exposure on elementary particles their classification, properties. Also student will learn how to determine mass, life time, decay mode, spin and parity of elementary particles.
CO2: The student will learn different experimental evidence how to produce neutrinos as well as their detection also the fundamental of antiparticle and their resonance.
CO3: The students will be able to understand different types of symmetry and conservation laws to understand basic properties of elementary particles.

CO4: The time reversal invariance violation of CP along with CPT theorem will be taught to the students with specific emphasis on quark model and SU types symmetry.
CO5: The student will learn different types of weak interactions and theories of beta decay.
CO6: Student will be able to experimentally test classical fermi theory, non-conservation of parity in beta decay lepton, polarization and Cabibbo's theory.
CO7: The students will learn the most fundamental aspect of particle physics such as gauge theory along with field equation for different spin.
CO8: The student will able to understand the interaction between the fundamental particle and field through Feynman rules. At the end broken symmetry and stand model of particle will be taught.

Paper: Condensed Matter Physics –II

CO 1: Students will be able to classify the different magnetic substances.
CO 2: Students will be able to explain different theories of Paramagnetism and Diamagnetism
CO 3: Students will be able to explain the behaviour of ferromagnetic, paramagnetic and diamagnetic materials using domain theory.
CO 4: Students will apply the concept of quantization of spin waves to study Thermal excitations of magnons, Neutron Magnetic Scattering.
CO 5: Students will understand the phenomenon of Superconductivityand distinguish between type I and Type –II superconductors
CO 6: Students will derive London Equation and understand the concept of penetration depth.
CO 7: Students will calculate BCS States using BCS theory
CO 8: Students will learn concept of direct and indirect band gap, Exciton absorption, Free carrier absorption, Absorption process involving impurities

Paper: Physics of Material

CO-1: Students will understand the basics of Vacuum Technology.
CO2: Students will learn about the basic principle, construction and working of various types of vacuum pumps and gauges.
CO3: Students will learn about the growth processes in thin films and the Influence of nature of substrate and growth parameters.
CO4: Students will learn about various thin film deposition techniques and Thin film thickness measurement techniques.
CO5: Students will learn about different types of polymers, their characteristics, apllications and processing techniques.
CO6: Students will be to classify liquid crystals, nanophase materials and ceramics.
CO7: Students will learn various techniques used for synthesis of different types of liquid Crystals, ceramics and nano-phase materials.
CO8: Students will be able to understand the basics principle, construction and working of characterisation techniques like XRD, TEM, SEM, LEED, AFM.

Paper: Nanotechnology

CO1**:** Student will be able to understand the fundamental of nanoscience and nanotechnology.
CO2**:** The student will be able to understand the different approaches and techniques for the fabrication of nanoparticle. The physical, chemical methods will be taught.
CO 3: Students will be able to understand different basic principles underlying the characterization techniques to study structural, thermal and optical properties of materials
CO 4**:** Student will learn special nanomaterials such as carbon nanotubes, fullerene and their different types of properties.
CO 5**:** Student will learn the various application of carbon nanotube in various filed. The method for the fabrication of carbon nanotube, fullerene and Graphene will be taught.

CO 6**:** Student will learn nano and micro electro-mechanical system along with their application in sensors and biosensors field, microfluids, MEMS and NEMS

CO 7**:** Students will understand the fundamental of semiconductor nanoparticles along with their optical and fluoresnce properties and their application in LED and solar cell.

Post Graduate Department of Chemistry
Name of Programme: B.Sc. (Medical)/ (Non-Medical)/ (Computer Science)
Programme Outcomes

PO 1 Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PO 2 Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO 4 Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO 5 Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.

PO 7 Self-reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Programme Specific Outcomes

Chemistry

The Programme enables the students

PSO 1: To understand concepts, basic facts and laws in chemistry.

PSO 2: Different aspects of chemistry develop interest in the study of chemistry as a discipline.

PSO 3: Programme develops skills to solve subject related problems.

PSO 4: Programme enables the students to know the role of chemistry in daily life and effect of chemicals on nature and society.

PSO 5: To develop ability to apply the principles of chemistry.

PSO 6: To develop skills in safe handling of chemicals and apparatus.

PSO 7: To develop skills to know the working of instruments and their further applications in research projects.

PSO 8: Waste water management, sustainability, green house emission and green chemistry experiments impart knowledge regarding environmental protection.

PSO 9: Programme imparts basic and fundamental knowledge to the students to continue higher studies, to prepare for various competitive examinations and to pursue a research career or to serve industries like – glass, cement textile, soap and detergents, paper, pharmaceuticals and food industry.

PSO 10: This programme enables the students to go for forensic studies also

Course Outcomes

Name of Programme: B.Sc. (Medical)/ (Non-Medical)/ (Computer Science)

After the completion of each course, students will able to attain following information:

SEM-I

Inorganic Chemistry-

CO1: Illustrate Quantum mechanical approach to Atomic Structure, Periodic Properties, General characteristics of all the elements, their compounds with structure and preparation methods, chemical bonding,

CO2: How to predict the geometries of different compounds

CO3: Explain concepts of ionic solids and weak interactions

Organic Chemistry-

CO1: Understanding of nomenclature and classification of organic compounds and

CO2: Illustrate concepts of Organic chemistry like – Reaction Mechanism, intermediates and attacking reagents etc.

CO3: Discuss preparation and properties of different functional Groups like Hydrocarbons, haloalkanes and Aromatic compounds.

CHEMISTRY

(PRACTICAL)

CO1: Course develops the skills to determine Physical constants like Melting points and Boiling points.

CO2: Develop skills for separation and identification of ions

CO3: Learn apparatus handling and chemical hazards

SEM-II

CHEMISTRY (INORGANIC CHEMISTRY–II)

CO1: Understanding concepts of acids and bases.

CO2: Explain s/p/d-block elements

CO3: Understanding of structure and properties of compounds of s/p/d-block

Physical chemistry-

CO1: This course enables the students to explain about the various states of matter
(Colloids, Gaseous, Liquid and solutions)

CO2: Illustrate solutions and colligative properties.

CO3: Discuss types of colloids and their properties and applications

CHEMISTRY

(PRACTICAL)

CO1: Develops skill of Crystallization.

CO2: Students learn and perform experiments related to physical chemistry i.e. Surface tension, viscosity, Chemical kinetics and Thermodynamics.

CO3: Apparatus handling

SEM-III

Organic Chemistry

CO1: Explain modern aspects of stereochemistry

CO2: Illustrate synthesis and properties of some important class of organic compounds with mechanism.

CO3: Explain organometallic and Heterocyclic compounds

Physical chemistry

Students get acquainted with the knowledge of –

CO1: Application of mathematical tools for chemistry

CO2: Explain basic concepts and Laws of Thermodynamics, Distribution Law, Chemical and Phase Equilibria

CO3: Solving numerical problems of above topics

CHEMISTRY (PRACTICAL)

Students are exposed to the skill development for –

CO1: Techniques of Thin Layer Chromatography

CO2: Quantitative estimations of Different ionic species using different branches of Volumetric and Gravimetric Analysis

CO3: Apparatus handling and data analysis to reach appropriate conclusion

SEM IV

Inorganic Chemistry-

CO1: Explain advanced theories on coordination chemistry, structure, bonding and stereochemistry of important coordination compounds.

CO2: Discuss redox behavior of Elements.

CO3.Explain Non-Aqueous solvents.

- Chemistry of Lanthanides and actinides.
- Bioinorganic Chemistry.

ORGANIC CHEMISTRY–B

CO1: Discuss aspects of stereochemistry

CO2: Explain important class of Organic compounds with mechanism.

CO3: Discuss organometallic compounds and their applications in organic synthesis.

CHEMISTRY (PRACTICAL)

CO1: Qualitative Analysis of Organic Compounds with Synthesis of their derivatives and physical constant determinations

CO2: Apparatus Handling

CO3: Knowledge of chemical hazard.

SEM-V

INORGANIC CHEMISTRY–A

CO1: Illustrate crystal field splitting in coordination complexes, their Stability, colour and magnetic properties and use of Magnetic moments for Interpretation of their structures.

CO2: Explain Electronic Transitions, Selection Rules and Term Symbols.

CO3: Explain basic concepts of Organometallic chemistry.

Physical chemistry-B

CO1: Explain Various Forms of electrochemical cells, conductance and related laws.

CO2: Explain Nuclear reactions

CO3: Discuss Physical aspects of various branches of Spectroscopy.

CHEMISTRY (PRACTICAL)

CO1: Develop skills for preparation of transition metal complexes

CO2: Skills Conductometric titrations nand Refractive Index measurement

CO3: Instrument handling

SEM-VI

ORGANIC CHEMISTRY– A

Students are Introduced to –

CO1: Discuss Different spectroscopic methods of Analysis which includes UV, IR & NMR techniques.

CO2: Solving problems based on spectroscopy

CO3: Illustrate basic concepts of Carbohydrates, Polymers, Organosulphur compounds , Amino acids, Proteins , RNA and DNA.

PHYSICAL CHEMISTRY–B

CO1: Explain basic concepts of Quantum Mechanics

CO2: Explain solid states

CO3: Illustrate basic concepts of Photochemistry

Chemistry Practical

CO1: Develop skills for synthesis of Organic compounds
CO2: Column chromatography as separation technique for mixture of compounds
CO3: Learn Apparatus and Chemical handling

Name of program: B.Sc. (Biotechnology)

After the completion of each course, students will able to attain following information:

SEM-I

BT-3 Inorganic Chemistry-

CO1: Discuss Coordination compounds, co-ordination number, stereochemistry and isomerism
CO2: Discuss theories like VBT, CFT, high spin and low spin complexes
CO3: MOT explaining the bonding in these compounds.

BT-4 Organic Chemistry

CO1: Illustrates Stereochemistry of compounds
CO2: Illustrates Isomerism i.e. Conformational , Geometrical and Enantiomerism , Sequence rules for E , Z or S, Specification to the compounds,
CO3: Explain structures, nomenclature, preparation methods and properties with mechanism of different Functional groups.

Chemistry Practical

BT-3 Inorganic Chemistry-A

CO1: Develop skills for volumetric titrations.
CO2: Develop skills for complexometric titrations
CO3: Apparatus handling and data analysis

BT-4 Organic Chemistry-A

CO1: Develop skill for identification of organic compounds and their derivation
CO2: Apparatus and Chemical Handling
CO3: Understanding of chemical hazard

SEM II

BT - 3 Inorganic Chemistry-B

CO1: Discuss Ligands, chelators, biochemical ligands their binding with alkali, alkaline earth metals and transition metals
CO2: Illustrates Stability of metal complexes
CO3: Explain role of metal ions in living systems.

BT - 4 Organic Chemistry–B

CO1: Illustrates conversion of functional groups into each other
CO2: Discuss various reaction Mechanisms
CO3: Explain acid-base catalysis and nucleophilic addition reactions

BT-3 Inorganic Chemistry-B (Practical)

CO1: Develop skills for Acid radical analysis
CO2: Develop skills for Basic radical analysis
CO3: Apparatus and chemical handling

Organic Chemistry (Practical)

CO1: Skill development for identification of organic compounds (Aromatic hydrocarobons, aldehydes, ketones, carbohydrates)
CO2: Apparatus handling
CO3: Chemical handling

SEM III

Physical Chemistry-A

CO1: Illustrates chemical thermodynamics, solutions, various types of solutions, colligative properties, Von't Hoff factor,

CO2: Explain phase equilibria, various phase diagrams.

CO3: Solving Numerical problems

Physical Chemistry – A Practical

CO1: Develop skills to measure various physical properties like surface tension, viscosity etc.

CO2: Develop skills for acid base titrations, percentage composition of solution using pH meter.

CO3: Instrument handling

Sem-IV

Physical Chemistry – B

CO1: Discuss electrochemical cells their types, Nernst Equation.

CO2: Illustrates chemical kinetics and rate order Equations.

CO3: Solving numerical problems based on above concepts.

Physical Chemistry – B Practical

CO1: Develop skills for measurement of various physical properties

CO2: Instrument handling and operation

CO3: Data analysis to conclude results

SEM V

BT-7 Physical, Organic & Inorganic Aspects of Spectroscopy-A

CO1: Explain UV visible spectroscopy

CO2: Explain Infrared Spectroscopy

CO3: Problem on structure elucidation of newly synthesized compounds using spectroscopy.

Physical, Organic & Inorganic Aspects of Spectroscopy-A (Practical)

CO1: Develop skills for synthesis and electronic spectral studies of transition metal complexes.

CO2: Record and Compare UV-Vis and IR spectra of reactants and products, transition metal complexes etc.

CO3: Instrument operation, handling and data interpretation.

SEM-VI

BT-7 Physical, Organic & Inorganic Aspects of Spectroscopy-B

CO1: Illustrate Nuclear, Magnetic Resonance Spectroscopy

CO2: Illustrate Mass spectrometry

CO3: Solving problems on structure elucidation of organic compounds using NMR and mass spectrometry.

BT-7 Physical, Organic & Inorganic Aspects of Spectroscopy-B Practical

CO1:. To record NMR spectra of organic compounds

CO2: Perform column chromatography

CO3: Instrument operation, handling and data interpretation.

Name of Programme: M.Sc. (Chemistry)

Program Outcomes

PO 1: This programme brings together the graduates who wish to enhance their skills and gives them an opportunity to develop their careers in a particular direction.

PO 2: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 3: The programme tends to expertise students in practical work and experiments based on the same so that they can analyze the data effectively.

PO 4: The students will be able to exhibit the capability to study the social and ethical aspects as well as cognizance of ethical facets of research and development work.

PO 5: The masters of science programme provides the candidate with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, entrepreneurship or public administration etc.

Programme Specific Outcomes

After the completion of program, students will have the following expertise:

PSO 1: Instrument handling.

PSO 2: Synthesis, separation and analysis of compounds employing laboratory and analytical techniques.

PSO 3: Analytical approach and problem solving skills by combining the different branches of chemistry.

PSO 4: Profound knowledge for the competitive exams and research in chemical sciences.

PSO 5: Efficient to work in chemical/pharmaceutical industries.

Course Outcomes

It assesses the knowledge and abilities inculcated in the students by the end of subject teaching. Students will gain an understanding of:

Sem-I

Course I

Ligand Field Theory

CO1: Application of symmetry elements/operations to identify the symmetry of point group of different molecules

CO2: Application of Crystal Field Theory to understand the electronic spectra and magnetic properties/colour of coordination complexes

CO3: Enable to differentiate between different isomers of transition metal complexes on the basis of crystal field theory.

CO4: Application of basic background knowledge of LFT and CFT to draw conclusions from chemically related data for transition metal complexes

COURSE II

Organic Reaction Mechanism- I

CO1: Predict the reaction mechanisms, rate of reaction by interpreting the given data

CO2: Predict the end products and stereochemistry of final products of a new reaction

CO3:. Discuss the reaction mechanism of a given reaction

CO4: Learn reaction types and parameters to apply in the laboratory methods.

COURSE III

Physical Chemistry – Thermodynamics

CO1: Apply mathematical tools to determine thermodynamic properties.

CO2: Use of models for greater understanding of phenomena of thermodynamics

CO3: Solve subject related numeric problems.

COURSE IV

SPECTROSCOPY – A: Techniques in Structure Elucidation of Organic Compounds

CO1: Illsutrates spectroscopic techniques (NMR, IR, UV-VIS) and Mass spectrometry

CO2: Application of spectroscopic techniques (NMR, IR, UV-VIS) and Mass spectrometry for structure elucidation of compounds

CO3: Interpretation of data and draw the conclusion.

CO4: Enable to solve the combined structural problems of organic compounds

Course –V

Computer for Chemists

CO1: Learn about various applications of computers in chemistry.
CO2: Develop skills in Programs in C- Language.
CO3: Develop programs for calculation of mean, median and Mode; Calculation Of Bohr Orbit and many more.

COURSE - VI

INORGANIC CHEMISTY (PRACTICAL)

(**Quantitative Analysis) Quantitative Analysis**-

CO1: learn and perform different types of titrations
CO2: Perform estimation of different metals
CO3: Interpretation of experimental data and results
CO4: Apparatus handling

COURSE-VII

ORGANIC CHEMISTRY (PRACTICAL)

CO1: Carry out multistep and important organic reactions. Correlate results with the theoretical understanding.
CO2: Perform thin layer chromatography.
CO3: Perform purification, characterization and Identification of organic compounds using various techniques.
CO4: Apparatus and Chemical Handling

Sem-II

Course – VIII

ORGANOMETALLICS CHEMISTRY

CO1: Apply knowledge of structure and bonding to correlate the reactivity and stability of complexes.
CO2: Learn application of Organometallic complexs in catalysis
CO3: Learn modern method to characterize the complexes

COURSE-IX

Organic Reaction Mechanism - II

CO1: Predict reaction mechanisms in chemical reactions
CO2: Predict the end products of chemical reaction
CO3: Learn to depict possible no. of products in a reaction

COURSE-X

Physical Chemistry – Quantum Chemistry

CO1: Application of mathematical methods in quantum chemistry
CO2: Applications of quantum postulates to particle in a box.
CO3: Applications of approximation methods to atoms
CO4: Learn chemical bonding quantum mechanically

Course-XI

REACTION MECHANISMS AND METAL CLUSTERS

CO1: Explain reaction mechanism of transition metal complexes
CO2: Explain electron transfer reaction
CO3: Discuss classification of metal clusters
CO4: Understanding of metal-ligand equilibria in solution

Course–XII

SPECTROSCOPY – B: Techniques for Structure Elucidation of Inorganic Compounds

CO1: Apply vibrational, rotational, Electronic, ESR, NQR, Mossbauer Spectroscopy techniques to inorganic compounds
CO2: Determination of point groups of small and medium sized molecules
CO3: Solve structural problems of inorganic compounds.
CO4: Analysis of Spectral data

COURSE-XIII
MATHEMATICS FOR CHEMISTS
(For Medical Students)
CO1: Solve various problems of Trigonometry and Determinants
CO2: Solve various problems of Matrices
CO3: Solve various problems of Differential Calculus
CO4: Solve various problems of Integral Calculus

COURSE-XIII
BIOLOGY FOR CHEMISTS
(For Non-Medical Students)
CO1: Enable students to deal with biology involved in chemistry.
CO2: Students came to know about –
- The Organization of Life
- Genetics
- The Diversity of Life

CO3: Students also learnt about the cell organization and classification of living things in this course.

COURSE XIV
ORGANIC CHEMISTRY (PRACTICAL)
CO1: Perform multistep synthesis
CO2: Apparatus and Chemical Handling
CO3: Perform quantitative analysis of organic compounds
CO4: Correlate the theoretical knowledge with experimental

COURSE-XV
Physical Chemistry (Practical)
CO1: Instrument operation and handling like Ph –meter and conductometer.
CO2: Perform various titrations to determine dissociation constant, equilibrium constant, solubility etc.
CO3: Perform data and results interpretation.
CO4: Establish correlation between experimental results and various physical chemistry laws and theories.

Sem-III
Course –XVI
INORGANIC CHEMISTRY
CO1: Demonstrate the role of metal ions in biological systems and metals in medicines
CO2: Illustrate Chemistry of Iron and metal transport
CO3: Outline bioredox Agents, Mechanism, Metalloenzymes.
CO4: Explain role of chemistry in biology

COURSE-XVII
ORGANIC SYNTHESIS
CO1: Make use of the mechanistic approaches to different substrate to predict the products
CO2: Analyze their role and importance of reagents in organic synthesis
CO3: Outline basic Concepts of Supramolecular Chemistry

CO4: Theoretical understanding of heterocyclic Chemistry

COURSE-XVIII
SURFACE AND POLYMER CHEMISTRY
CO1: Discuss the phenomenon of adsorption
CO2: Explain chemistry behind micelles
CO3: Illustrate polymerization, their types and determination of their molecular weight.
CO4: Outline kinetic of polymerization.

Course-XIX
Electrochemistry and Chemical Dynamics
CO1: Explain the concepts of voltametry and polarography and electrochemistry.
CO2: Draw plots or correlation between various parameters of chemical dynamics and electrochemistry.
CO3: Solve numerical problems related to the topics.

COURSE-XX
PHOTOCHEMISTRY AND PERICYCLIC REACTIONS
CO1: Explain the role and behavior of photons in a chemical reaction
CO2: Predict no. of products and their structure in a photochemical reactions
CO3: To predict end products and the stereochemistry of different types of pericyclic reactions

COURSE-XXI
Inorganic Chemistry (Practical)
CO1: Preparation of transition metal complexes
CO2: Characterization of complexes by NMR, IR and UV-VIS spectroscopy.
CO3: Analysis of spectral data
CO4: Instrument handling

COURSE-XXII
PHYSICAL CHEMISTY (PRACTICAL)
CO1: Learn Instrument operation of conductometer, refractometer, colorimeter, potentiometer, dilatometer etc.
CO2: Data analysis
CO3: Learn practical demonstration of physical chemistry laws and equations.
CO4: Instrument Handling.

Semester IV

Course-XXIII
ADVANCED INORGANIC CHEMISTRY
CO1: Explain role of photochemistry in reactions of transition metal complexes
CO2; Outline insertion reactions of transition metals
CO3: Illustrate role of transition metals in catalysis
CO4: Explain photo reactions and photo synthesis

Course-XXIV
NATURAL PRODUCTS
CO1: Study of biosynthetic pathways, other natural products
CO2: Analyze the difference between synthesis of compounds in laboratory and in natural plant systems.
CO3: Basic understanding and application of techniques and their correlation to draw conclusions.
CO4: Application of Disconnection approaches and retrosynthesis to establish the structure and stereochemistry of natural products

Course XXV
Chemistry of Materials
CO1: Explain type of solids, point defects, electric properties of solids and their reactions
CO2: Discuss polymers and methods of determination of their molecular mass.
CO3: Explain glass and ceramic formation and their properties.
CO4: Illustrate smart materials.

Advanced Practical's
Organic Synthesis (Practical)
CO1: Perform reactions for synthesis and reactivity of organic compounds such as benzalacetophenone with various reagents.
CO2: Instrument Operation
CO3: Learn to Characterize and Analyze the data
CO4: Confirm the structure of final products

Advanced Practical's
Inorganic Synthesis (Practical)
CO1: Synthesis of various transition metal complexes
CO2 ; Instrument Handling of UV spectrophotometer, IR etc.
CO3 : Record and Interpretation of electronic absorption, IR and NMR spectral data
CO4: Learn and perform separation techniques of column and paper chromatography.

Advanced Practicals
Physical Chemistry (Practical)
CO1: Instrument Operation
CO2: Practical demonstration of physical chemistry phenomena like effect of conjugation on wavelength, activity coefficient, rate of reaction etc.
CO3: Analysis of data
CO4: Draw the conclusions

Post Graduate Department of Mathematics
Name of Programme: B.A/B.Sc. (Non-Medical/Computer Science)

Mathematics

Course Outcomes

Semester-I

Paper: I Algebra

CO1: Algebra forms the basis for Higher Mathematics and helps students to apply Mathematical results to more generalized concepts.
CO2: Students will learn how to deal with quadratic, cubic and bi-quadratic equations.
CO3: Students will able to find Eigen values and Eigen vectors of square matrix.
CO4: Students will be able to solve linear equations in three or more variables.

Paper-II Calculus & Trigonometry

CO1: Learn the basic concepts of various functions like exponential functions, logarithmic functions and trigonometric functions and their applications to problems in real world.
CO2: It helps the students to understand the concept of Limits, Continuity, Uniform continuity and derivatives and different properties of these concepts.
CO3: Students will learn how to apply De Moivre's theorem to solve various equations and primitive roots of the complex variables.
CO4: Students will be able to find sums of different trigonometric series.

Semester-II

Paper -I Calculus and Differential Equations

CO1: Calculus will help students to trace graphs of different functions and how to find their asymptotes, multiple points etc.
CO2: Students will be able to relate integrals of different functions using reduction formulae.
CO3: Students will be able to solve differential equations with constant and variable coefficients.
CO4: Students will learn to find maxima and minima, critical points and inflexion points of functions and use it to evaluate problems related to various solids.

Paper –II Calculus

CO1: Introduction of the concepts of Limits, Continuity, and partial derivatives of functions of two variables and different properties of these concepts.
CO2: Students will learn to expand functions of two variables using Taylor's theorem.
CO3: It helps to understand the concept of double triple integrals, how to solve them and their applications to finding area and volumes of curves.
CO4: Students will able to learn and apply the change of order of integration to various double integrals.

Semester-III

Paper -I Analysis

CO1: Analysis will introduce the concepts of sequence, series and their convergence and divergence. Also it will introduce the concept of Riemann integrals.
CO2: Students will learn to check the convergence and divergence of sequence by using various tests.
CO3: Students will be able to check whether the function is Riemann Integrable or not and find their numerical values.
CO4: Students will learn to deal with improper integrals, Beta and Gamma functions.

Course Outcomes of Paper II – Analytical Geometry

CO1: It will enhance the knowledge of Straight lines, parabolas, ellipse, hyperbola and sphere.
CO2: Solve applied mathematics problems involving analytic geometry and conic sections.
CO3: Students will be able identify different conics from general equation of degree two.
CO4: Students will learn to transform and rotate axis.

Semester-IV

Paper I – Static & Vector Calculus

CO1: Students will be able to know about the different kind of forces acting on a body at rest and their properties

CO2: Students will learn about coplanar forces, parallel forces, Moments, Varignon's theorem of moments, Couples, Resultant of two Coplanar Couples, and Equilibrium of two Coplanar couples

CO3: Students will learn about Centre of Gravity of different bodies.

CO4: Student will understand Green's Theorem, Divergence Theorem, Stoke's theorem and evaluate line integrals, surface and volume integrals.

Paper II – Solid Geometry

CO1: In Solid Geometry the students will learn about the surfaces and solids in space like cones, cylinders and prisms.

CO2: Students will be able to identify equation of cones and cylinders from a second degree equation in three variables.

CO3: Students will learn how to find surfaces of revolution of different curves.

CO4: Students will identify type of general equation of second degree.

Semester-V

Paper I – Dynamics

CO1: Dynamics will help to understand the concept of speed, velocity, acceleration and use these in solving problems.

CO2: Students will learn about Newton's Laws of Motion and apply it to solve various problems.

CO3: Students will able to evaluate problems of work, power and energy and laws related to kinetic and potential energy.

CO4: Students will able to evaluate curvilinear motion of particle in a plane and projectiles.

Paper II – Number Theory

CO1: It will enhance the concepts of divisibility, G.C.D, L.C.M and basic properties of integers.

CO2: Students will be able to apply Euclid's Algorithm and backward substitution.

CO3: Students will be able to understand the definitions of congruences, residue classes and their properties and able to solve problems by congruences.

CO4: Students will learn about different number theoretic functions and their properties.

Mathematics Semester-VI

Paper I – Linear Algebra

CO1: Linear Algebra will introduce the concept of Groups, Rings and Fields. Vector Spaces and Linear Transformations.

CO2: Students will learn about linear span, Linear dependence, Linear independence of vectors and Linear combination of vectors, Basis of a vector space.

CO3: Students will be able to solve problems of linear transformation and Algebra of linear transformation.

CO4: Also will learn Rank- Nullity theorem and Matrix of a linear transformation.

Paper II – Numerical Analysis

CO1: In Numerical Analysis students will learn common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems.

CO2: Students will be able to drive numerical methods for various mathematical operations and tasks such as interpolation the solutions of linear and nonlinear equations.

CO3: Students will be able to analyse and evaluate the accuracy of common numerical Methods.

CO4: Students will be applying to various method numerical integration and differentiation for finding the values of integrals and derivatives.

Name of Program: M.Sc. (Mathematics)

Program Outcomes

PO1: This programme brings together the graduates who wish to enhance their skills and gives them an opportunity to develop their careers in a particular direction.

PO2: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO3: The programme tends to expertise students in practical work and experiments based on the same so that they can analyse the data effectively.

PO4: The students will be able to exhibit the capability to study the social and ethical aspects as well as cognizance of ethical facets of research and development work.

PO5: The masters of Science programme provides the candidate with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, entrepreneurship or public administration etc.

Program Specific Outcomes

PSO1: Understanding of the fundamental axioms in Mathematics, capability of developing ideas based on them and inculcates mathematical reasoning

PSO2: Prepare and motivate students for research studies in mathematics and related fields of Science and Technology.

PSO3: Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains.

PSO4: Provide advanced knowledge on topics in pure and applied Mathematics, and empower the students to pursue higher degrees at reputed academic institutions.

PSO5: Strong foundation on algebra, topology and Number theory which have strong links and application in theoretical physics.

PSO6: Nurture problem solving skills, thinking, creativity through assignments and guide students in preparing for competitive exams e.g. NET, GATE, etc.

Course Outcomes (CO) of PG Mathematics

M.Sc. Mathematics Semester -I

Paper-551-Real Analysis-I

CO1: Real Analysis studies the concepts such as sequences and their limits, continuity, differentiation, integration and sequences of functions of real variables and will improve student's logical reasoning.

CO2: Students will be able to understand countable & uncountable sets, open sets, closed sets, compact sets, prefect sets, k-cells and Cantor set.

CO3: The students will be able to understand limits and how they are used in sequences, series differentiation and integration.

CO4: They can understand Riemann-Stieltje's integral and its properties, Fundamental theorem of calculus and 1st and 2nd Mean values theorems of Riemann-Stieltje's integral.

CO5: Plan and design research problems using techniques and procedures appropriate to real analysis.

Paper-552 Complex Analysis

CO1: Complex Analysis investigates functions of complex variables, their limits, derivatives, integration and provides students with opportunities to build a deeper cognitive mathematical framework.

CO2: Students will understand the concepts of anti-derivatives, Cauchy integral theorem or formula to compute line integrals and various integrals of functions of complex variables.

CO3: Students will understand the Bilinear transformations their critical points, fixed points, cross ratio problems and apply it to various problems.

CO4: Students will evaluate zeroes, singularities, residues at a pole and infinity and various theorems which help them to solve integral of a function of a complex variable.

CO5: Plan and design research problems using techniques and procedures appropriate to complex analysis.

Paper-553 Algebra-I

CO1: In Algebra students will study about different algebraic structures such as groups, rings, fields

CO2: It will introduce the concepts of Groups, Subgroups, Cyclic groups and their various theorems.
CO3: Students will understand the concept of Rings, Subrings, Quotients rings, Ideals, Prime ideals, maximal ideals, homomorphisms of rings characteristic of a ring.
CO4: Students will understand fields, subfields, polynomial rings and rational fields.
CO5: Students will be able to solve problems relevant to modern algebra

Paper-554 Mechanics-I

CO1: Students can to articulate and describe deeply about both branches of Mathematics-Kinematics and Dynamics.
CO2: Students will come to know about applications of Newton's Law of Motion.
CO3: Students will learn about the Centre of gravity and Centre of mass of body along with its moment of inertia.
CO4: Students will understand various applications of vector theorems of mechanics and interpretation of results
CO5: Students will use the theory, methods and techniques of the course to solve problems.

Paper-555 Differential Equations

CO1: Students will study equations involving the derivatives of a function or a set of functions
CO2: Students will recognize ODEs and system of ODEs concept that are encountered in the real world, understand and be able to communicate the underlying mathematics involved to help another person gain insight into the situation.
CO3: Students will able to classify partial differential equations and transform into the canonical form.
CO4: Students will able to extract information from partial derivative models in order to interpret reality.
CO5: Students will able to solve problems in ordinary differential equations, dynamical systems, stability theory, and a number of applications to scientific and engineering problems.

M.Sc. Mathematics Semester -II

Paper-561 Real Analysis-II

CO1: Students will study convergence, uniform convergence, differentiation, and integration of sequence and series of functions.
CO2: Students will study the concepts of Outer measure, Lebesgue measure, Measurable sets and their properties
CO3: They will learn about characteristics functions, step and simple functions, Lebesgue integral and its various theorems
CO4: Students will study Arzela Theorem, Weistrass approximation theorem and their applications
CO5: Students will plan and design a piece of independent research using real analysis techniques.

Paper-562 Tensors and Differential Geometry

CO1: The students will able to use the techniques of differential calculus, integral calculus, linear algebra and multi- linear algebra to study problems in geometry.
CO2: Students will study the Theory of Space Curves, contact between curves and surfaces, envelopes, developable surfaces, asymptotic lines and their various theorems.
CO3: Students will understand Geodesics, its differential equation, curvature, geodesics mappings and their various properties.
CO4: Students will learn about different types of tensors such as Cartesian tensors, metric tensors, contra-variant, covariant and mixed tensors.
CO5: Students will perform local calculations in differential geometry accurately (tensor calculus, covariant derivatives, Lie derivatives.

Paper-563 Algebra-II

CO1: Students will study field of quotients of an Integral Domain, Principle ideal domains, Euclidean rings, UFD, Ring of Gaussian Integers, Polynomial rings and various theorems for these concepts
CO2: Students will study different extension of fields such as finite, infinite, algebraic, separable, inseparable and simple and important theorem like Existence and uniqueness theorem

CO3: The concepts of Galois Theory, Group of Auto morphisms of a field are also introduced to the students. They study fundamental theorem of Galois Theory
CO4: Students will study modules, its different types, and fundamental theorem for finitely generated modules over a PID.
CO5: Students will be able to solve problems relevant to modern algebra.

Paper-564 Mechanics-II

CO1: Students will study the different concepts of rigid body such as: motion, linear momentum, angular momentum, impulsive forces and Laws of conservation of angular momentum and energy.
CO2: Students will learn about the Euler's dynamical equations for motion about a fixed point and the properties of rigid body motion under no force.
CO3: Mechanics will give students an idea of Lagrange's concepts of holonomic system and system of impulsive forces.
CO4: Students will study the various standard principles such as: Hamilton's Principle, Principle of Least Action and also study Euler-Lagrange equation for extremal functions
CO5: Students will use the theory, methods and techniques of the course to solve various optimisation problems.

Paper-565 Partial Differential and Integral equations

CO1: Students will study non-linear partial differential equations of first order and various methods to solve them such as Charpit's Method and Jacobi's Method.
CO2: Students will learn about second-order partial differential equation and its various types.They also study various methods to solve them
CO3: Students will study various transformations such as Fourier and Laplace.
CO4: Students will come to know about the concept of Voltera and Fredholm integral equations. They will be able to solve these methods such as: successive approximation, Neumann's series method.
CO5: Students will able to solve problems in ordinary differential equations, dynamical systems, stability theory, and a number of applications to scientific and engineering problems.

M.Sc. Mathematics Semester -III

Paper-571 Functional Analysis-I

CO1: It is an important branch of Mathematics developed with the purpose to cover theoretical needs of partial differentiable equations and Mathematical Analysis.
CO2: Students will learn about important spaces like: Normed linear spaces, Banach spaces, Quotient spaces and concepts like Holder's and Minkowski's inequality and convergence in these spaces.
CO3: Students will study continuous linear transformations, equivalent norms and compactness of finite dimensional normed linear spaces.
CO4: Students will learn important theorems such as: Hahn-Banach Theorem, Open Mapping Theorem, Closed Graph Theorem, Uniform Boundedness Principle and an overview of Hilbert spaces

Paper-572 Topology-I

CO1: Students will study topology on a space is determined by collection of open sets, closed sets and by basis of neighbourhoods at each points.
CO2: Students will know what it means by convergence and compactness of topological space.
CO3: Students will study about various topological spaces like TO, T1, Haudsroff spaces, regular, normal spaces, tychnoff spaces, completely regular and completely normal spaces.
CO4: Students will become familiar with Urysohn Lemma and Teize Extension Theorem which helps to characterize metrizable spaces.
CO5: Student is able to apply her knowledge of general topology to formulate and solve problems of a topological nature in mathematics and other fields where topological issues arise.

Paper-578 Operational Research-I

CO1: The concerned course will help students to identify and develop operational research models from the verbal description of the real system by studying linear programming problems and properties of their solutions.

CO2: Students will understand the various Mathematical techniques that are needed to solve linear programming problems such as Simplex Method, Big-M and Two-Phase method
CO3: Students will learn to formulate a dual of primal problem and methods to solve them. They also study Transportation and Assignment problems by solving them using various methods.
CO4: The concept of Game Theory and Integer Programming will enhance their knowledge and mathematical logics.

Paper-586 Number Theory

CO1: Students will study simultaneous linear congruences, Chinese-Remainder Theorem with applications, Fermat's Numbers and Primitive roots.
CO2: Students will learn indices and their applications, quadratic residues, Gauss's Lemma, Jacobian symbols and its properties.
CO3: Students will study the Arithmetic functions, Perfect numbers and Diophantine equation with its applications.
CO4: Students will study finite and infinite simple continued fractions, periodic, purely periodic continued fractions and Fundamental solution to Pell's equation.

Paper-577 Statistics-I

CO1: Students will study different measures of central tendancy, dispersion, moments, skewness and kurtosis and probability along with its various theorems and applications.
CO2: Students will learn about mathematical expectations and moments, moment generating functions and their properties.
CO3: Students will study different probability distributions such as Binomial, Poisson's, Exponential, Gamma, Beta, and Normal.
CO4: Students will learn about Least-Square principle, Linear and Multiple Regression, co-relation coefficients and ratio.
CO5: Students will learn about Least-Square principle, Linear and Multiple Regression, co-relation coefficients and ratio.

M.Sc. Mathematics Semester -IV

Paper-581 Functional Analysis-II

CO1: Students will learn about strong and weak convergence in finite and infinite dimensional normed linear spaces.
CO2: Students will study different operators such as: self-adjoint operators, unitary operators, normal operators and projection on Hilbert spaces.
CO3: Finite Dimensional Spectral theory will give student's an insight of Spectrum of a bounded linear operator, self-adjoint, positive and unitary operators and Properties of Compact linear operators.
CO4: Students will study the Banach algebras, regular and singular elements, Topological divisors of zero and formula for Spectral radius.

Paper-582 Topology-II

CO1: Students will study the study higher separation axioms for various topological spaces like T5, metric spaces, Haudsroff spaces, regular, normal spaces, tychnoff spaces, completely regular and completely normal spaces.
CO2: Students will study Compact Spaces, their properties and their relation with Hausdorff spaces, regular spaces and normal spaces.
CO3: Students will study Bolzano-Weistrass property, Countably compact spaces, Locally compact spaces, tychonoff theorem and compactness in terms of base and sub-base elements.
CO4: Students will study about nets, filters and ultrafilters which are useful in defining convergence of net in a set, eventually and frequently in a set
CO5: Analyze and interpret information from a variety of sources relevant to Mathematical Logic and Topology.

Paper-588 Operational Research-II

CO1: Students will learn about the Queuing Theory, classification of Queueing Models.
CO2: Students will study about different Queuing Models, generalized models and Power-Supply models.
CO3: Students will learn about Inventory decisions, cost associated and economic order quantity, problems with price breaks and replacement problems.

CO4: Students will learn the need of simulations, its methods and models, maintenance problems and job sequencing.
CO5: Students will learn the need of simulations, its methods and models, maintenance problems and job sequencing.

Paper-575 Discrete Mathematics-I

CO1: It will enhance the knowledge of students about Mathematical concepts like relations functions.
CO2: Students will learn the use of grammar to construct languages In Automation.
CO3: Students will learn to construct truth tables using different logic operations.
CO4: Evaluate Boolean functions and simplify expression using the properties of Boolean algebra, apply Boolean algebra to circuits and gating networks.

Paper-587 Statistics-II

CO1: Students will study various Sampling distributions such as Chi-Square, t and F, distribution of mean and variance and their properties.
CO2: Students will learn about estimators, properties of unbiasedness, sufficiency and efficiency, simple and composite hypothesis and Likelihood tests.
CO3: Students will learn about applications of Sampling Distributions and equality of two proportions.
CO4: Linear Estimations models will help students to understand analysis of variance in one-way and two-way classified data, BLUE and Gauss Mark off Linear Model.

DEPARTMENT OF BIOTECHNOLOGY

Name of Programme: B.Sc. Biotechnology

Program outcomes

PO 1 Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PO 2 Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO 4 Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO 5 Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.

PO 7 Self reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Programme Specific Outcomes

PSO 1: **Familiarization with Microbiology:** Students are acquainted with the various types of micro-organisms such as Bacteria, Fungi and Viruses etc.

PSO 2: **Grasping the Concept of Biochemistry:** To explain the students about various Biomolecules such as Proteins, carbohydrates, Lipids etc. along with degradation and metabolism of biomolecules.

PSO 3: **Analysing the Animal Tissue Culturing:** The main objective of tissue culturing is to tell the students about various techniques used to grow cells and their use in animal health.

PSO 4: **Comprehension of Plant Tissue Culturing:** The students are made aware of various types of media used to grow plant cells and their role in plant biotechnology.

PSO 5: **Concept of Patent and IPR:** Students are made aware of various procedures for filling patents in biotechnology and concept of innovation and various types of treaties involved in it.

Course outcomes

Semester-I

Paper: BT-8 General Microbiology-A

CO 1: The students will be able to relate the basic concept of Microbiology and its relevance in daily life.

CO 2: Students will be able to classify the basic techniques in Microbiology such as bright field, dark field, phase contrast, fluorescence & immunofluorescence and electron microscopy.

CO 3: The students will be able to analyze the general features of different microorganisms like bacteria, viruses, fungi etc.

CO 4: Students will be able to categorize the various biochemical and metabolic characteristics of different microorganism.

Semestr-1

Paper: BT-9 Biochemistry A

CO 1: The students will be made to define biochemistry and tell its role in plant and animal life.

CO 2: Students will be able to show the importance of different bio molecules such as proteins, Carbohydrates etc in daily life.

CO 3: Students will be able to select various procedures for determining sugars, carbohydrates, etc in various samples.

CO 4: Awareness will be shown among students to analyze the importance of water in life.

Semester-II

Paper: BT-8General Microbiology-B

CO 1: The students will be able to define about the process of microbial growth.

CO 2: Students will make use of the various methods used for cultivation of different bacteria and life cycle of various plant and animal viruses.

CO 3: The students will be able to categorize the various diseases and their mechanism caused by microorganisms.

CO4: Students will be able to compare different characteristics and mechanism of various fungal Diseases, their mechanism of action and diagnosis.

Paper: BT-9 Biochemistry- B

CO1- Students will be able to know what the importance of proteins and peptides is; their types and their chemistry.

CO2- Students will be able to classify basic types of lipids: their types and study various properties of lipids and waxes.

CO3- Students can categorize different types of vitamins and their role in human health and their IU recommended doses and deficiency diseases associated with vitamins.

CO4- The students will be made to experiment with and analyze proteins, lipids ,etc.

Semester-III

Paper: BT-3 Biochemistry – III

CO 1: The learners will define metabolism and understand the basic concept of metabolism.

CO 2: Students classify various metabolic pathways of carbohydrate metabolism and their regulation.

CO 3: Students will be able apply concept of electron transport chain and oxidative phosphorylation.

CO 4: Students will experiment with different processes used for the Separation of lipids using Various chromatography techniques.

Paper: BT-5 Basic concepts in Immunology – A

CO 1: Students will able to define Immune system.

CO 2 The learners will be able to classify various cells and organs of immune system.

CO3: The students will able to explain the concept of immunogenicity along with action of various immunoglobulin's.

CO 4: The students will analyze about MHC molecule along with cell receptors

Paper: BT-7 Agro and Industrial Applications of Microbes-A

CO 1: Students will be able to define the basic concept of agro industrial microbiology.

CO 2:Students will be able to illustrate the different approaches used for genetic manipulations of microorganisms.

CO 3: Students will be able to classify various industrial important microbes, its isolation,screening, selection and identification.

CO 4: Students will learn the concept of Microbial association and their interaction with plants and role of microbes in sustainable agriculture.

Semester-IV

Paper: BT-3 Biochemistry – IV

CO 1: Students will understand what the metabolic pathways of lipid catabolism and its regulation are.

CO 2: Students will be able to explain about the concept of lipid anabolism.

CO 3: Students will classify various metabolic pathways of amino acid metabolism along with its regulation.

CO 4: Students will analyze the detailed concept of nucleic acid metabolism.

Paper: BT-V Immunotechnology-B

CO 1:The students will learn what is the concept of T-cell subsets and surface markers along with the concept of monoclonal antibodies.

CO 2:The students will classify various immunological techniques like Immunodiffusion, ELISA, RIA..

CO 3:Thestudents will be able to identify immunopathological consequences of parasitic infections, immune invasion and how to protect our immune system from such pathogenic infections.

CO 4: Learners will be able to analyze the concept of immunization and recombinant Vaccines and latest discoveries related to recombinant vaccines.

Paper : BT- 6 Molecular Biology

CO 1: The students will learn what Molecular basis of life is: DNA and its replication.

CO 2: The learners will be able to summarize the concept of DNA recombination and its molecular mechanisms.

CO 3: Students will analyze the Process of transcription and translation in organisms.

CO4: Students will be able to compare different molecular mechanisms of translation etc.

Paper: BT-7 Agro and Industrial Applications of Microbes-B

CO 1: Students will learn about the general characteristics of industrial and agro industrial microbes and microbes involved in antibiotics production.

CO 2: Students will learn about the various mechanisms involved in the production of different microbial products like wine, beer etc.

CO 3: Students will be able to relate microbial process in agro biotechnology like BT crops etc

CO 4: Students will be able to compare about the different microbial process in industrial biotechnology.

Semester - V

Paper: BT-5 Bioprocess Engineering- A

CO 1: Students will be able to define about the fundamental principle of bioprocess engineering and different types of microbial cultures.

CO 2: The students will be able to compare with the various mechanisms of microbial growth kinetics.

CO3: The students will learn the process of external and internal feed basic system of various microbial creatures.

CO 4: Students will analyze the knowledge related to the importance of sterilization in bioprocess Engineering.

Paper: BT-3 Animal Tissue Culture

CO 1: The students will be made to know what are the basic concepts of animal biotechnology, animal cell culturing.

CO 2: Awareness will be created among students classification of various cell lines and there characteristics.

CO 3: Students will be able to experiment to isolate DNA and RNA from animal tissues and to analyze the DNA by electrophoresis and spectrophtometrically.

CO 4: The students will be made aware about how to choose the various types of stem cells and their role in differentiation and organ culturing.

Paper: BT-1 rDNA Technology-A

CO 1: Concept clearance about how to define molecular techniques like isolation of DNA from bacteria and then analyzing it by using restriction enzymes and spectroscopy will be provided to the students.

CO 2: The students will be made to classify of various types of vectors such as lambda, plasmid etc.

CO 3: They will be able to learn to compare techniques used for transformation like electron gun, micro injection etc

CO 4: Students will analyze various types of DNA sequencing techniques used in modern era.

Paper: BT-4 Patent Laws in Biotechnology

CO 1: Students will be able to analyze the knowledge regarding the Indian patent system, its history, further amendments objectives and along with patenting agencies will be enlisted.

CO 2: Students will be able to compare the format of the writing the patent and its specifications. Further, added guidelines include patentee rights, post grant opposition, infringement, etc.

CO3: Students will be able to show the process regarding the patenting system in biotechnology and articles related to it.

CO4: Students will be able to analyze the Awareness created about the risks associated with the release of genetically modified microorganisms, ethical issues in biotechnology, ecological impact and legal aspects of patenting.

Semester-VI

Paper: BT-1 rDNA Technology-B

CO 1: Awareness will be created among students about names of various types of vectors and their Characteristics (BAC, YAC, TAC).

CO 2: The students will be made to summarize the concept of genomic cloning and various types of lambda vectors used for the same.

CO 3: Students will be classify various types of sequencing methods such as max Gilbert method, Sanger‘s method.

CO4 - Students will be able to experiment with methods to make competent cells and transform the same and learn gel electrophoresis etc.

Paper: BT-3 Animal Biotechnology

CO 1: The students will be made to give names of of the various types of cell lines and their characteristics.

CO 2: Students will classify the various types of methods for cell transformation.

CO 3: The students will be able to analyze the concept of PCR and types of PCR. Further, theywills get to know regarding animal genetic engineering and production of various types of animal products.

CO 4: The students will be further made to experiment to isolation of RNA from blood, southern blotting etc.

Paper: BT-5 Bioprocess Engineering-B

CO 1: The students will be able to compare with the various features of different bioreactors and its kinetics.

CO 2: The students will learn about the various control and measurement equipment of bioreactors.

CO 3: The students will be able to analyze the basic concept of down streaming processing.

CO 4: Students will be able to compare the various methods of ETP and fermentation economics.

Paper: BT-4 Intellectual Property Rights and Entrepreneurship

CO 1: The students will be able to analyze IPR history, its benefits, problems and Management.

CO 2: Students will be able to summarize about World Trade Organization, its principle, objective, structure, function s and its related provisions, GATT.

CO3: Learners will be able to interpret TRIMs, TRIPs; its agreement, principle and objective, Berne convention, Budapest Treaty, WIPO.

CO4: The students will be given the knowledge to choose entrepreneurship; its characteristics.

Department of Zoology
Name of Programme: B.Sc. Medical
Programme Outcomes

PO 1 Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PO 2 Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO 4 Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO 5 Interdisciplinary approach: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.

PO 7 Self reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Programme Specific Outcomes

PSO 1: Understanding of the importance of cell as a basic unit of life, the molecular interactions within and outside the cell and basic concepts related to various physiological phenomenon occurring in human body.

PSO 2: Perception of morphological, anatomical and physiological features of diverse organisms including Non-chordates and Chordates.

PSO 3: Comprehension of the sustainable use of natural resources and their conservation as well as the awareness regarding causes, impacts and control of increasing pollution.

PSO 4: Understanding of characteristic embryological development of various organisms and the various phylogenic relationships among them.

PSO 5: In depth understanding and awareness of evolutionary history, relevant theories and basic concepts underlying the adaptations of animals towards the changing environment.

PSO 6: Understanding of population dynamics, interactions with the environment and diversity of ecosystems.

PSO 7: Comprehension of the basis of genetics including gene interactions, modifications, mutations and development of genetic abnormalities.

PSO 8: Create awareness regarding health, pathogenic organisms, their mode of transmission and pathogenicity as well as role of medical diagnostics, safety rules, and preventive measures to control spread of diseases.

PSO 9: Equip students with the practical skills of performing experiments and carrying out research work as per laboratory standards in various Principles of Zoology.

PSO 10: Possess skills required for working as a professional in particular fields such as teaching, research scientist, wild life conservation, medical laboratories and Zoological survey of India.

Course Outcomes

Semester-I

Paper ZOO-IA (Cell Biology)

CO 1: Students will acquire **detail knowledge** of principles and working of different types of microscopes fixatives and staining techniques.

CO2: Students will be able to **understand** and draw the structure of plasma membrane, **enlist** its functions and can **explain** different methods of transport across membrane.

CO 3: Students will able to **learn** about structure of different cell organelles in detail and can **enlist** their different functions.

CO 4: Students will be able to **analyze** the process of transformation of normal cell into tumor & will **understand** the basics of Immune system.

Paper: ZOO-I B Biodiversity

CO1: Students will be able to **explain & categorize** about different levels of biological diversity and the evolutionary links between different phyla.

CO2: Students will **understand** about the scientific classification of invertebrates and can **enlist** different morphological features and economic importance of specimens of each phylum .

CO3: Students will acquire **knowledge** about general biology of one organism from each phylum Porifera to Annelida.

CO4: Students **come to know** about to the pathogenic protozoans and helminths & learn their life cycle , mode of transmission and parasitic adaptations.

Semester-II

Paper:II A Ecology

CO1: Students will be able to understand the scope of ecology in biology and functional basis of animal ecology.

CO2: Students will be able to summarize the structure and functioning of ecosystems, ecological succession, biogeochemical cycles, and concepts of limiting factors.

CO3: The students can categorize various adaptations acquired by the organisms to survive in the particular habitats.

CO4: The students will know about inter and intra specific interactions & learn to solve environment problems like environmental pollution and Consevation of resource

Paper: ZOO-IIB Biodiversity

CO 1: Students will be able to describe general rules of classification of invertebrates.

CO 2: Students will understand about the scientific classification of invertebrate fauna (Arthropoda to Echinodermata) and can list different morphological features and economic importance of specimens of each phylum .

CO3:Students will be able to explain & know about detail study of one organism each from phylum Arthropoda to Echinodermata.

CO 4: Students will able to understand the phenomenon of social behaviour in insects,Pearl formation in Mollusca and Echinoderm larvae.

Semester-III

Paper: IIIA (Evolution)

CO 1: Students will be able to understand the concept of evolution , theories of organic evolution and highlighted the role of evidences in support of evolution.

CO 2: Students will know about origin of life, concept of micro, macro ,mega evolution & evolution of species.

CO 3: The students will learn about the fossils & extinction of reptiles & evolution of man.

CO4: Students will be able to understand poison apparatus in snakes & dentition in mammals, migration and parental care.

Paper: ZOO- IIIB Biodiversity

CO 1. Students will understand about the hierarchy and diversity of chordates, basic characteristic features of chordates and the organisms showing affinities with both Chordates and Non - chordates.

CO 2: Students will learn about of structural organization and functioning of various systems in organisms belonging to different vertebrate classes ,the detailed study of a representative specimen of each class.

CO 3: Classification of different vertebrate groups up to order , their general features and economic importance.

CO 4: Knowledge of Classification of Urochotdata,Cephalochordata along with detail study of Amphioxus

Semester-IV

Paper: IVA Biochemistry

CO 1: Students will be able to understand importance & scope of biochemistry.

CO 2: The students can classify & summarize the structure, functions and metabolism of proteins, carbohydrates, lipids & nucleic acids.

CO 3: The students will be able to understand the concept of enzymes & role of coenzymes.

CO 4: The students will learn & perform different biochemical test.

Paper: ZOO- IVB Animal Physiology

CO 1: Students will learn about the basic principles and fundamentals of animal physiology.

CO2: The students be able to understand the physiology of digestion, types of digestion and physiology of respiration .

CO 3:Students will understand the detailed physiology of excretion, circulation, etc.

CO 4:Students will know about nervous coordination and integration of nervous system and can understand different endocrine glands and their disorders.

CO5:Students will learn theoretical and practical techniques to study animal behaviour.

Semester-V

Paper: ZOO-VA Developmental Biology

CO 1: Students will develop critical understanding of fundamentals of developmental biology, various stages in the development of embryo and gametogenesis.

CO 2: The students can understand the role of organisers and inducers in the development of embryo, the basic concepts of determination, differentiation and gastrulation.

CO 3: Students are able to know about the formation of foetal membranes, their role, and development of frog, chick and rabbit upto three germinal layers, their fate maps and the nature and physiology of placenta.

CO 4: The students are able to understand the phenomenon of Metamorphosis, Regeneration, Ageing and Death.

Paper: ZOOV- B Genetics

CO 1: Students will learn about the central role of genetics in the study of biology .

CO 2: The students will come to know about genetic variation through crossing over, recombination and linkage, analyze non-allelic gene interaction and modifications of Mendelian ratios.

CO 3: The students will be able to understand the molecular structure of genetic material, can enlist different steps of replication and transcription of DNA and expression of genes.

CO 4: The students will learn with the phenomenon of extranuclear inheritance , Understand concept of Mutations.Get well versed with Recombinant DNA technology & Apply principles of Mendelian inheritance and Population genetics.

Semester- VI

Paper: ZOO-VI A Medical Zoology

CO 1: The students are able to define different terms in parasitology ,Understand the disease causing potential of pathogenic microorganisms..

CO2: Students will be able to describe the life cycle,mode of transmission and pathogenicity of parasitic protozoans and helminthes.

CO 3:Students will know about different Arthropod vectors,their life cycles and control measures.

CO 4: Students will be able to define terms in Immnology, Learn abour innate and adaptive immunity & understand structure and types of Immunoglobulins.

CO5.Demonstration and application of serodiagnostic assays and know about Vaccines.

Paper: ZOO-VI B Medical Labora

CO 1: The students will have the knowledge of laboratory safety rules, hazards and precautions . Learn the maintenance of laboratory equipments and application.

CO2: The students will learn techniques of collection, transportation and preservation of different clinical samples.

CO3:Students will be able to estimate and analyse different hematological tests.

CO 4: Students will learn about Bacteriology,different culture media and prepration of culture media.

CO5:Students will be able to know about about Histopathology,staining of tissue slides and perform different biochemical tests.tory Technology

B.Sc. (BIO-TECHNOLOGY) (SEMESTER-I)

Paper: BT - 1 Zoology–A

CO1: The students will have the knowledge about the anatomy and physiology of human digestive system.Also enlist differert digestive enzymes .

CO2: The students will be able to understand about respiratory and circulatory system. System, explain process of Haemopoiesis and list blood clotting factors

CO3: Students will learn about structure of integumentary system,skin derivatives and its role.

CO4: Students will understand about Integument structure and different skin derivatives in humans and their role.

B.Sc. (BIO-TECHNOLOGY) (SEMESTER-II)

BT-1 Zoology-B

CO1: The students will understand about the Structure and physiology of excretory and Reproductive system.

CO2: The students will know about endocrine glands and enlist different hormones.

CO3: Students will be able to explain & draw Nervous system and also know about structure and working of sense organs.

CO4: Students will be able to describe structure of different types of muscles and summarize process of muscle contraction.

B.Sc. (BIO-TECHNOLOGY) (SEMESTER-III)

BT - 2 Zoology–C

CO1: The students will define different terms in parasitology. Describe the life cycle,mode of transmission and pathogenicity of parasitic protozoans.

CO2: The students will be able to learn Histopathological techniques.Familiar with diseases such as livers, cirrhosis, nephrosis, tumors, cancer, AIDS.

CO3: Students will be able to understand arthropod vectors, their life cycles and control measures

CO4: Students will have the knowledge about AIDS, Hepatitis, Typhoid and Cholera, their occurence and eradication programmes. Learn about Drug therapy and Drug resistance.

HANS RAJ MAHILA MAHA VIDYALAYA

MAHATMA HANS RAJ MARG, JALANDHAR (PUNJAB) INDIA

FACULTY OF

SKILLED COURSES

Program Outcomes (POs)

and

Course Outcomes (COs)

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Department of Bachelor of Design

Name of Programme: Bachelor of Design (Specialization: Fashion/Textile/ Interior)

Programme Outcomes

PO 1: The programme provides opportunity to the students to select their area of specialization i.e. interiors, fashion and textiles and can explore their creativity according to their area of interest

PO 2: Programme familiarizes students with the nuances of design which make them effective communicator through brush and colours.

PO 3: The programme enhances the confidence of the graduates through carefully chosen curriculum with emphasis on practical learning, activities and close interaction with designers, craftsmen, teachers and fellow students.

PO 4: They learn about the history and development of design forms and the changing technologies that affect the crafting of messages leading up to and including contemporary designs.

Programme Specific Outcomes

PSO 1: Our students demonstrate their talent and dedication by consistently receiving recognition in district, state and national competitions.

PSO 2: They develop confidence in their ability to analyze forms, shapes and various types of design artifacts; understand cultural and historical contexts, and use this understanding to inform the development and evaluation of their work.

PSO 3: Students are introduced to many of the central themes of critical theory as applied to visual culture in general, and to fashion, textile and interior design in particular.

PSO 4: Students are introduced to theories and methods to facilitate clarity and understanding using a wide range of complex textual and visual information.

PSO 5: In projects, students learn processes for various modes of visualization and content including data, time-based sequences, designing and its production.

Course outcomes

Semester –I

Paper: I Drawing

CO 1: After study this course student will adapt the knowledge and skills in the use of basic tools, technique.

CO 2: Student will built the process to work from concept to finished products, including knowledge of paints, surfaces, two dimensional and three dimensional images.

CO 3: To combine various effects, texture and basics of art and design world.

Paper: II Colour

CO 1: Student will develop the knowledge of the using colour in the various designs.

CO 2: They will acquire the knowledge about colour theories and imagine the scientific reasons behind that.

CO 3: They will evaluate the relation between design elements and colour importance.

Paper: III Basic Design

CO 1: To justify various elements of designs

CO 2: They improve the knowledge to implement design details in the art works.

CO 3: They estimate the various design detail and its use in fashion/textile and interior world.

Paper: IV Workshop–I

CO 1: To select about various materials of art world and its handling

CO 2: To modify materials a new shape using various techniques.

CO 3: Encompasses the development of art skills.

Paper: V History of Art -I

CO 1: Ability to perceive art of history in its entirety from pre-history to present.

CO 2: Ability to analyze the formal techniques stylistic, compositional characteristics of works of art.

CO 3: Ability to advance research in the field.

Paper: VI Aesthetics and Art Appreciation

CO 1: Ability to analyze fundamental concepts of aesthetics towards the interpretation of art.

CO2: Students classify various art theories

CO3: They discuss about the communication concepts of art and its various Indian and western concepts.

Semester –II

Paper: I Drawing & Illustration

CO 1: It helps students assume a better understanding of the people around them and learn to build stronger relationships.

CO 2: Developing the Design and illustration fosters creativity of the student.

CO 3: Design is inherently creative.

Paper: II Colour–II

CO 1: Color engages and inspires students, facilitating the creative and critical thinking that's so important for brainstorming original ideas and developing proficiency in complex subjects.

CO 2: Environment has a huge influence on a student‘s attention, creativity, concentration, and calmness, which means that designers play a significant role in helping students to learn colour aspects for fashion and interior designing.

CO 3: Colour palettes can feature a variety of shades of the same colour to set a specific mood, or layered with other colours for a more dynamic environment.

Paper: III Design & Communication

CO 1: This course help student to evaluate the aspects that communication design is a mixed discipline between design and information-development which is concerned with how media intervention such as printed, crafted, electronic-media or presentations communicate with people.

CO 2: To explain various elements of designs and to implement those in the art works

CO 3: Students of communication design perceive how to create visual messages and broadcast them to the world in new and meaningful ways.

Paper: IV Workshop-II

CO 1: This course interprets in the learning process by allowing the student to explore the knowledge independently using various art materials.

CO 2: This course is to improve students' knowledge, abilities, and skills, to monitor their assimilation of information, and to contribute to their overall development and upbringing by using various special design materials in fashion and interior world.

CO 3: To relate about various materials of art world and to give them a new shape using various techniques.

Paper: V History of Art-II

CO 1: Ability to relate art of history in its entirety from pre-history to present.

CO 2: Ability to analyze the formal techniques stylistic, compositional characteristics of works of art.

CO 3: Ability to Relate research in the field.

Paper: VI Computer Application

CO 1: Software‘s help the students to extend the design world as maximum work is done on software‘s in design world.

CO 2: Latest updates versions are taught, it improve productivity Revise errors, better quality work in less time

CO 3: This course construct to success in education and employment since computer skills are integral to all areas of study and work.

Semester III

Paper: I Design Development

CO 1: Rephrase about developing the designs whatever is planned or thought, an implementation to the thinking is given.

CO 2: Various design techniques & styles are explored.

CO 3: Students develop figure drawings.

Paper: II Workshop

CO 1: Student examine about various fashion/interior and textile material

CO 2: Student identify various machines use in the design world

CO 3: Classify various weaving, stitching, carpentry techniques and make projects.

Paper: III Computer Aided Design

CO 1: Student make use of various computer software's of design world

CO 2: Student experiment on design projects which help in increased productivity and efficiency of work

CO 3: Students will able to explain about the process of creating technical drawing with the use of software.

Paper: IV Market Survey

CO 1: Students survey about various materials available of the market for designing of the products

CO 2: They survey about new markets, upcoming trends and demand of the consumers

CO 3: Students develop knowledge about various industries through industrial visits.

Paper: V Technical Theory

CO 1: Students identify various technical aspects of fashion/ textiles and interior

CO 2: They discuss about various technical details of machinery and its manufacturing

CO 3: The course help the students discuss various theories and principles of the design world.

Paper: VI Historical Study of Fashion & Textile Designing/ Interior Designing-I

CO 1: In this student compare various traditional and contemporary textiles, costumes, architecture, fashions, styles of the India and other parts of the word.

CO 2: Various historical periods are also studied which help in the creation of projects.

CO 3: The course comprehends the use of collection and interpretation of data.

Paper: VII Advertising & Marketing

CO 1: After studying this course the student should be able to develop various advertising and marketing aspects of his/her designer products

CO 2: It will demonstrate the practical knowledge of capital and revenue expenditure

CO 3: To make student understand about various about marketing techniques to be an adopted to run the business effectively by using principles of marketing.

Semester IV

Paper: I Design Development–II

CO 1: The highly effective and superior study program not only brings you huge exposure, but also brings you a wonderful opportunity to experiment with your creativity skills.

CO 2: The students learn designing skills that start with sketches that capture all the details of the design and thinking process.

CO 3: It incorporates the design skills, development and creation of a garment or product, as well as the distribution and marketing of products.

Paper: II Workshop

CO 1: The subjects covered in fashion design are: fashion illustration, garment construction, flat pattern technology, draping, textiles, design synthesis, life drawing, colour theory, designing collections.

CO 2: A students apply stitching skills and interior designing skills which help a student in earning a livelihood.

CO 3: This course is important for a student and it helps them to interpret the designs and understand the design with technical ability.

Paper: III Computer Aided Design

CO 1: CAD explains designers to view designs of clothing on virtual models and in various colours and shapes, thus saving time by requiring fewer adjustments of prototypes and samples later.

CO 2: Software can help students draw, create woven textures, drape models to create patterns, adjust sizes and even determine fabric colours.

CO 3: They can also easily adapt a single design to varying materials and patterns, and build upon and alter existing designs to create new pieces.

Paper: IV Market Survey

CO 1: Students survey about materials availability in the market for designing of the products.

CO 2: They Develop knowledge about new fashion forecasts, upcoming trends and demand of the consumers.

CO 3: They compare about various industries through industrial visits.

Paper: V Technical Theory

CO 1: To create technical designers, fashion coordinators, fashion stylists or fashion expert, Concepts of design are very important to learn so this subject helps them to know the technical details.

CO 2: This *c*ourse build the art of applying design, aesthetics and natural beauty to clothing and its accessories. It is influenced by cultural and social attitudes.

CO 3: The courses help the students for understanding various theories and principles of the design world.

Paper: VI Historical Study of Fashion & Textile Designing/ Interior Designing- II

CO 1: It's important to understand art history in order to understand the history of fashion. Courses in the Philosophy of Art can also offer great tools for expressing your ideas and putting them into the right context.

CO 2: Various historic design periods are also studied which help to illustrate creative Projects.

CO 3: The course comprehends the use of collection and interpretation of data.

Paper: VII Business Studies –I

CO 1: It is very important for the students to know about the existence of the products available there in the market and to relate about various marketing strategies.

CO 2: Business Studies demonstrate student to make more informed decisions in the everyday business of living. It gives you a better understanding of the world of work.

CO 3: It encourages students to analyze about how and why people start up in business and how to handle it.

Semester V

Paper: I Design Process–I

CO 1: It provides a framework for students to develop design skills.

CO 2: Design critiques, student presentations, team projects, and deadlines are all opportunities for a student to improve their skills.

CO 3: It helps students compare better understanding of the people around them and learn to build stronger relationships. Design fosters creativity. Design is inherently creative. By tackling old problems in new ways, students get the chance to do a double take on their own preconceptions.

Paper: II Workshop–III

CO 1: This course is an important Life Skill and is the vehicle to build self-confidence through skill building.

CO 2: This course helps a student to develop fine motor skills, improves focus and concentration and teaches the importance of patience and self-control.

CO 3: By learning this course a student experiment to make something useful and can make tons of one-of- a-kind accessories, tote bags, scarves and more! Designing not only enables the student to create beautiful and heirloom items that can be passed down, they are the same skills needed to recycle or alter garments and fabrics.

Paper: III Computer Aided Design

CO 1: CAD allows for the easier development of products and product management integration.

CO 2: It also allows for greater modeling and even provides a basis for virtual networking. In the designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

CO 3: Students learn the ability to develop very accurate designs; drawings can be created in 2D or 3D and rotated; other computer programmers can be linked to the design software.

Paper: IV Market Survey

CO 1: This Course helps to survey data on customers and potential customers.

CO 2: It aims to build business decision making skills.

CO 3: The students utilize market trends which reduces the risks involved in making these decisions.

Paper: V Technical Theory

CO 1: Students assume about various technical aspects and updated technologies of fashion/ textiles and interior.

CO 2: Students develop various technical details of machinery and its manufacturing.

CO 3: The courses help the students for understanding various theories and principles of the design world.

Paper: VI Historical Study of Fashion & Textile Designing/ Interior Designing -III

CO 1: This course allows a student to understand various state and country history and to create modern and contemporary designs for today‘s world.

CO 2: This course demonstrates ancient and old design principles and their reasons to use them.

CO 3: It helps to understand the chronological details for better designing skills.

Paper: VII Business Studies -II

CO 1: Studying business involves not only studying individuals, communities, and organizations; it involves assessing their needs and problems, as well as generating solutions.

CO 2: This subject will build a strong foundation for those students who wish to move on to further study and training in specialized areas such as management, international business, marketing, accounting, information and communication technology, or entrepreneurship.

CO 3: It will develop practical skills for those who wish to move directly into the workplace.

Semester VI

Paper: I Design Process -II

CO 1: This course helps a student to develop design from the beginning, allows all components of a product to work together seamlessly, providing a superior user experience.

CO 2: This course develops the ability to understand design is a plan or specification for the construction of an object or system or for the implementation of an activity or process, or the result of that plan or specification in the form of a prototype, product or process.

CO3: Student learn the process of developing a quick sketch involving considerable research, negotiation, reflection, modeling, interactive adjustment and re-design.

Paper: II Workshop -IV

CO 1: Designers often specialize in particular types of design field – for example, in men‘s, children‘s or sportswear, furniture or accessory designer. This role would normally involve: working to design instructions (known as a brief), analyzing or predicting trends in fabrics, colours and shapes.

CO 2: Developing concept and mood boards (a collection of items to capture a mood, such as photos, fabric pieces and colour samples), developing basic shapes ('blocks') through patterns.

CO 3: Estimating costs for materials and manufacture, finding suppliers, supervising the making up of sample clothing items, making in-house presentations, for example to finance departments and merchandisers.

Paper: III Computer Aided Design

CO 1: It opens the doors for independent designers who may have fewer employees and therefore can't waste time and resources doing sketch after sketch.

CO 2: Software can help students draw, build woven textures, drape models to create patterns, adjust sizes and even determine fabric colours. By Introducing this technological aspect will enable students to understand a lot better and try various combinations in their design.

CO 3: Computer industry has got its new customer. Computer technology is making waves in the fashion design zone. From determining textile weaves to sizing designs; computers are a vital component of the fashion industry. It help student survives in fashion industry with technology.

Paper: IV Technical Theory

CO 1: This course is highly important in designing that infer designers to make a sensible choice of choosing fabrics that complement their design.

CO 2: This course illustrates the topics like dyeing, printing and weaving. Students are also taught about each fabric and its usage.

CO 3: It will explain why certain textile fabrics make cool wearing apparel as well as give an impression of coolness when used as decoration. The matter of cleanliness and maintenance must also be estimated before purchasing when that is an important factor.

Paper: V Entrepreneurship Development Programme

CO 1: Ability to develop a style that is distinctive, consistent and new ability to manage the process of communication on which fashion depends upon ability to manage strategic and marketing issues.

CO 2: The entrepreneurship in fashion and apparel design should demonstrate on opportunities emerging through creativity, preparing the graduates to work as freelancers or self-employed or creating small enterprise.

CO 3: The framework of the entrepreneurial curriculum helps in the concepts of fashion and apparel industry with focus on design development process, fashion forecasting, production etc.

Paper: VI Exhibition Design & Display

CO 1: It helps student to analyse about new platform for a multi layered communication with the audience.

CO 2: This paper focuses on museum fashion exhibitions from the designer's perspective: the opportunities and the benefits for the students themselves.

CO 3: This course helps them to learn about the various exhibitions and display techniques.

Semester VII

Paper: I Design Process –III

CO 1: Designers often relate with garment technologists and sample machinists. The role could also involve liaising with manufacturers (often based overseas) to make sure designs are reproduced accurately.

CO 2: This course helps designers to show off their talent to potential employers, they have to create a portfolio demonstrating their skills and creative sensibilities. Students can fill their portfolio with the work they‘ve done during their degree program, so it‘s important for them to treat every assignment as if they were going to show their work to a future boss. Portfolios allow people to show off a range of skills, including their sketching, sewing, and pattern making abilities.

CO 3: Students should also familiarize themselves with what goes on behind the scenes—such as finance, sales, and marketing—particularly if they want to have their own fashion business.

Paper: II Workshop V

CO 1: This section provides a look at the earning potential of designers.

CO 2: Producing concept and mood boards (a collection of items to capture a mood, such as photos, fabric pieces and colour samples), developing basic shapes ('blocks') through patterns.

CO 3: Estimating costs for materials and manufacture, finding suppliers, supervising the making up of sample clothing items, making in-house presentations, for example to finance departments and merchandisers.

Paper: III Computer Aided Design

CO 1: Using CAD software, designers can create new sketches more quickly and more precisely. They can also easily adapt a single design to varying materials and patterns, and build upon and alter existing designs to create new pieces.

CO 2: The process of designing buildings is dominated by computers. Software tools used in the design phase can automate repetitive calculation and drawing tasks, help find new design solutions and provide a high degree of precision. This optimization makes the design process faster, clearer and more effective.

CO 3: CAD allows for the easier development of products and product management integration. It also allows for greater modelling and even provides a basis for virtual networking. In the designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

Semester VIII

Paper: I Industrial Training

CO 1: Industrial Training is the important strategy to expose students to real work life situations and to equip them with the necessary skills that intensify their job. Industrial training program or training related program can be continuously improved through formal review and evaluation of its outcome.

CO2: It is the organized way of improving and enhancing knowledge and skill set of designing students. It boosts the performance of students and helps them to meet career objectives.

CO3: The industrial training program is important for designing students. It helps them to update and master their skills.

Paper: II Design & Display / Commercial Production

CO 1: It also helps the student in improving their knowledge. It improves the versatility of the student and helps them in boosting their career.

CO 2: It also boosts their confidence once they have the skills about the particular subject they have got training in. They help you implementing the theory into realistic area.

CO 3: It involves the application of learned skills in an organization related to the students' major projects.

Department of Bachelor of Design (Multimedia)
Name of Program: M.Voc (Web Technology and Multimedia)
Programme Outcomes

PO1: Would enable the students completing M.Voc to make a meaningful participation in acceleratory India' economy by gaining appropriate employment and creating appropriate knowledge.
PO2: Be involved in projects right from project planning to final outcome ready for client delivery
PO3: Entrepreneurship development. Student can gain the skills of setting up their own Business.
PO4: Develop introductory level competencies in the areas of character and location design, lifedrawing and animation.
PO5: Gain real world project experience throughout their learning cycle, that helps them to better understand the roles and processes in wide range of computer generated design and animation careers.
PO6: Develops proficient skills in the field of computer graphics for still and animated contents with the use of latest creative technologies in Media and Entertainment industry.

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Programme Specific Outcomes

PSO 1: The programme provides an advanced skill development and specialization in modelling/ animation/ visual effects/ graphic design.
PSO 2: To impart knowledge regarding tools and technology in the creation, reproduction, and distribution of visual messages.
PSO 3: Relevant tools and technologies include photography, printing, VFX, Web and Interactive media.
PSO 4: Students learn to coordinate and manage the production of a student film, including the aspects of cinematography, art direction and editing.

Course Outcomes
Semester: I
Paper: Advanced Graphic Design
CO1: Gain knowledge about Special Effects, Patterns, and Background Designing.
CO2: Develops Conceptual Thinking in Creativity
CO3: Develop Training in Image Retouching and Color Balancing
CO4: Analyze Case Studies & Projects Related to Graphic Design.
Paper: Image Capturing & Processing
CO1: Demonstrate about camera its basic functions
CO2: Understanding lighting used during photography.
CO3: Gain Knowledge about Aperture, Shutter speed and ISO and how they work duing photography
CO4: Modify lighting used during photography
Paper: 2D Animation & Character Design
CO1: Understand how to create characters, buttons etc.
CO2: Work on expressions of character.
CO3: Learn how to work professionally in Flash that is followed in industry.
CO4: Demonstrate their skills in advance level in software.
Paper: Scripting Language - I
CO1: Use operators, variables, arrays, control structures, functions and objects in JavaScript.
CO2: Classify popular JavaScript Libraries
CO3: Create dynamic styles
CO4: Evaluate different JavaScript Events.
Paper: Digital Media Production
CO1: Demonstrate a strong familiarity and proficiency with professional software for video editing, audio production and editing, basic animation, and web development.
CO2: Demonstrate mastery over media file formats, conversion protocols, and storage frameworks.
CO3: Use critical thinking skills to solve industry-related problems on real world projects and in collaboration with other students

CO4: Carry out applied learning activities focused on the production and post production process for digital media productions.

Semester: II

Paper: Video Editing Techniques

CO1: Design clean as well as expert titles for your video clips..
CO2: Edit a whole video clip from starting to finish, utilizing expert and also effective strategies.
CO3: Color correct your video clip to repair problems with white balance and also direct exposure.
CO4: Modify your video clips, as well as make them a lot more vibrant with cutaway video footage and also images

Paper: Visual Effects

CO1: Describe characteristics of well-designed and executed animation
CO2: Assess and critique past and current animation trends
CO3: Demonstrate progress in basic sculpting, puppet making and animation skills.
CO4: Manipulate animation production equipment

Paper: Scripting Language – 2

CO1: Explain separation of concerns and identify all the dynamic websites.
CO2: Identify advanced JavaScript Array Methods
CO3: Use regular expressions for form validation.
CO4: Create develop Error free website.
CO5: Modify the events used in the dynamic websites.

Paper: Stop Motion

CO1: Create accurate and aseptically appealing stop motion animation
CO2: Describe characteristics of well-designed and executed animation
CO3: Demonstrate progress in basic sculpting, puppet making and animation skills.
CO4: Critically analyze your creative work and the work of others.

Paper: Digital Media Laws and Ethics

CO1: Gain knowledge about various laws imposed in the digital media industry
CO2: Critically define the different Censorship Labels imposed on films.
CO3: Demonstrate the different ethics of production
CO4: Analyze developed movies on the basis of Production.

Semester: III

Paper: 3d Modeling & Texturing

CO1: Gain knowledge about the interface of 3D Max
CO2: Learn working with Nurbs, which will help them to create more smooth and attractive models.
CO3: Understand many different mapping techniques and many kind of materials.
CO4: Design their own 3d Models of different characters.

Paper: Lighting & Rendering

CO1: Get knowledge about creating different 3D models and objects
CO2: Understand how 3D objects are made and sculpted, which are commonly used in VFX, games and many other fields.
CO3: Depth knowledge about animation in 3D Max, animating an object will improve their work a lot more and help them to get in 3D field
CO4: Compile different textured models using 3d Models.

Paper: Motion Graphics

CO1: Learn use of motion graphics in various fields like in T.V., commercials, videos and many different kind of productions, how they use motion graphics along with other things to make their product/film/video love more attractive.
CO2: Understand Animation process, because understanding basic animation process can help them to make their animation more realistic and more attractive.
CO3: Know the proper use of motion graphics on the web, because motion graphics is the major part of web. Developers use motion graphics with other techniques to make their websites and web pages standout.
CO4: Getting knowledge about motion graphic composition will also help them in improving their work flow, which will make them work faster and accurately.

Paper: ASP .NET with C#

CO1: Create user interactive web pages using ASP.Net.
CO2: Performing Database operations for Windows Form and web applications.
CO3: Make database connection using proper controls
CO4: Validate the field elements using validator control.

Paper: Workplace Health and Safety

CO1: Gain knowledge about safety standards to be imposed at every workplace
CO2: Understand all the precautions to be taken during natural disasters.
CO3: Develop their own safety and health standards
CO4: Create a Blueprint of all the types of Fire extinguishers..

Semester: IV

Paper: Advanced 3d Modeling & Texturing

CO1: Get to know many different mapping techniques and many kind of materials.
CO2: Learn cloning objects and objects array's, grouping and linking objects.
CO3: Get in depth knowledge about animation in 3DMax, animating an object
CO4: Develop their work to gain position in 3D field.

Paper: Digital Painting

CO1: Learn how to develop manipulation of Digital Images
CO2: Understand the concept of brusing,
CO3: Developing Digital Landscapes.
CO4: Modify the Digital Drawing.

Paper: Digital Portfolio

CO1: Understand how to make a show reel.
CO2: Develop online blogs of different work done.
CO3: Critically analyze the videos developed for social media platforms.
CO4: Develop portfolio for their jobs.

Paper: Internship

CO1: Create their own piece of Work or Portal using all the technologies they have learnt through this programme.
CO2: Able to make the website live on the Internet and start making money
CO3: Create their own field of interest using all the softwares learnt in this programme.
CO4: Create and compile their own idea in the form of a working and interactive website using all the technologies learnt throughout the programe.

Name of Program: B.Voc (Web Technology and Multimedia)

Programme Outcomes

PO1: This B.Voc. programme is focused on providing undergraduate which would help them incorporate specific job roles and their NOSs along with broad based general education..
PO2: This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge
PO3: .Bachelor of Vocation (B.Voc.) Degree in Web Technology and Multimedia will train students in areas such as – markup languages, programming fundamentals, database management, operating system, scripting language etc.
PO4: Gain real world project experience throughout their learning cycle that helps them to better understand the roles and processes in the field of web designing and development.
PO5: Develop introductory level competencies in the areas of web technologies, animation, programming and database management.
PO6: Develops proficient skills in the field of computer graphics for still and animated contents with the use of latest creative technologies in Media and Entertainment industry.

Programme Specific Outcomes

PSO 1: The course gives more importance to acquire the knowledge through a practical format of teaching.
PSO 2: To make the students learn and become specialized in various computer programming languages like JAVA, PHP along with designing softwares like Adobe photoshop.

PSO 3: To make them understand recent web application development and the security issues for web development

PSO 4: This course produces various employment opportunities as Web Designer, Web Developer, Front- End and Back-End Developer, Software Tester, System Analyst, Graphics Designer, Programmer, Data base Analyzer, E-content Developer, Teaching Profession, Freelancer etc.

Course Outcomes

Semester: I

Paper: Computer Fundamentals and MS Office

CO1: Understand how the computers have evolved over the decade.
CO2: learn the detailed Concepts of Computer Hardware and Software.
CO3: Understand the relation between WWW and Internet.
CO4: Understand the working of Microsoft Office Suite.
CO5: Create documents of different types using the hardware and software.

Paper: Markup Languages (HTML,HTML5, and CSS)

CO1: Utilize web technologies.
CO2: Administer and maintain a website.
CO3Learn techniques of responsive web design, including media queries.
CO4: Develop, administer, and maintain a web programming system solution.

Paper: Programming Fundamentals (C& C++)

CO1: Understand basics of Programming.
CO2: Demonstrate problem-solving skills.
CO3: Apply logical skills to programming in a variety of languages.
CO4: Gaining knowledge about the dynamic behavior of memory by the use of pointers.

Paper: Adobe Photoshop

CO1: Understand the difference types of graphics.
CO2: Gaining Knowledge about Image Formats and Pixalisation.
CO3: Enable them to use various tools of Photoshop.
CO4: Get knowledge about different types of editing techniques in Photoshop.
CO5: Develop different photo manipulations.

Semester: II

Paper: Web Programming with PHP-I

CO1: Understanding POST and GET in form submission.
CO2: Enable them to read and write cookies.
CO3Use PHP built-in functions and creating custom functions.
CO4: Get knowledge about databases of phpmyAdmin portal.

Paper: Design & Layout (Dreamweaver)

CO1: Understand the working of websites in the real world.
CO2:Steps encountered during making any website live
CO3: Analyze and Assume an idea about developing website.
CO4: Create websites and web portals for professional and personal uses

Paper: Analysis and Design for Web Applications

CO1: Categorize the websites on the basis of their development ideas.
CO2: Understand Website Requirements and Paper Work behind any website
CO3: Analyze the websites.
CO4: Critically analyze the already developed websites.

Paper: JavaScript-I

CO1: Use operators, variables, arrays, control structures, functions and objects in JavaScript.
CO2: Classify popular JavaScript Libraries
CO3: Create dynamic styles
CO4: Evaluate different JavaScript Events.

Semester: III

Paper: Java Script II

CO1: Explain separation of concerns and identify all the dynamic websites.
CO2: Identify advanced JavaScript Array Methods

CO3: Use regular expressions for form validation.
CO4: Create develop Error free website.
CO5: Modify the events used in the dynamic websites.

Paper: Operating System

CO1: Describe the important computer system resources and therole of operating system in their management policiesand algorithms.
CO2: Understand the process management policies and scheduling of processes by CPU
CO3: Evaluate the requirement for process synchronization and coordination handled by operating system.
CO4: Identify the need to create the special purpose operating system
CO5: Compile the different commands of Operating System.

Paper: Java Programming

CO1: Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity.
CO2: Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem
CO3:Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.
CO4: Demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.

Paper: Wordpress

CO1:Creating a dynamic space for multimedia (blogs, podcasts, video resources, etc)
CO2: Engaging and working within a chosen theme
CO3:An understanding of the importance of Universal Design and accessibility when designing for the Web
CO4: Engagement with the affordances of WordPress (.css, .php, other) based on the needs and desires of the faculty member

Semester: IV

Paper: Database System

CO1: Understand the features of database management systems and Relational database.
CO2: Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra
CO3: Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.
CO4: Retrieve any type of information from a data base by formulating complex queries in SQL.
CO5: Use the SQL in Procedural Language for simple applications

Paper: Software Engineering

CO1: Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques.
CO2: Define various software application domains and remember different process model used in software development
CO3: Generate project schedule and can construct, design and develop network diagram for different type of Projects. They can also organize different activities of project as per Risk impact factor.
CO4: Justify role of SDLC in Software Project Development and they can evaluate importance of Software Engineering in PLC.

Paper: PHP–II

CO1: Build Dynamic web site using server side PHP Programming and Database connectivity.
CO2: Outline the principles behind using MySQL as a backend DBMS with PHP
CO3: Understand the differences between LAMP, WAMP, and MAMP.
CO4: Compile the working of programming language and a scripting language.

Paper: Adobe Flash

CO1: Create basic shapes and used Tweening on it.
CO2: Build Small Animations using timeline
CO3: Execute Expressions on Keyframes

CO4: Create e-cards with sound.

Semester: V

Paper: Software Re-Engineering

CO1: Assess which parts should be reengineered first.
CO2: Extract coarse-grained and fine-grained design models
CO3: Identify the risks and opportunities for a given re-engineering project
CO4: Exploit tests during re-engineering.
CO5: Solve the typical problems of an object-oriented re-engineering project.

Paper: Software Project Management and Business Solutions

CO1: Distinguish among SCM and SQA and can classify different testing strategies and tactics and compare them.
CO2: Identify the different project contexts and suggest an appropriatemanagement strategy
CO3: Practice the role of professional ethics in successful software development
CO4:Determine an appropriate project management approach through anevaluation of the business context and scope of the project.

Paper: ASP .NET with C

CO1: Create user interactive web pages using ASP.Net.
CO2: Performing Database operations for Windows Form and web applications.
CO3: Make database connection using proper controls
CO4: Validate the field elements using validator control.

Paper: Software Testing & Quality Assurance

CO1: Familiar with the process of verification and validation.
CO2: Able to derive test cases from software requirement specifications - including being able to partition input and output domains, form test specifications, and identify valid combinations of input
CO3: Understand and be able to distinguish between methods of judging test case adequacy and how to design tests that will accomplish the obligations of such methods.
CO4: Analyze code to automate test execution.

Paper: Adobe Muse

CO1: Demonstrate planning and creating website using Muse CC.
CO2: Able to add text to website, formatting text, and adding images and graphics
CO3: Modify menus, widgets, and links within site
CO4: Analyze publishing site to the web.

Paper: Lab: Software Testing (Case Tools

CO1: Demonstrate the steps of software development.
CO2: Develop and Design the UML Diagrams.
CO3: Modify the levels of SDLC.
CO4: Analyze the errors to be encountered during the development of a software.

Semester: VI

Paper: Major Project

CO1: Create their own Website or Portal using all the web technologies they have learnt through this programme.
CO2: Able to make the website live on the Internet and start making money
CO3: Modify assistive tools for the running websites
CO4: Create and compile their own idea in the form of a working and interactive website using all the technologies learnt throughout the program.

Name of Program: B. Design (Multimedia)

Programme Outcomes

PO1: Produce a portfolio of artwork that is research and development oriented, and that integrates the principles, techniques and skills acquired in the work.
PO2: Develop introductory level competencies in the areas of character and location design, life-drawing and animation.

PO3: Gain real world project experience throughout their learning cycle that helps them to better understand the roles and processes in wide range of computer generated design and animation careers.

PO4: Demonstrate the knowledge, dedication and work ethic required to be a successful member of a creative team.

PO5: Enhance career prospects based on skill areas and make them employable indifferent segments of Media and Entertainment industry.

Program Specific Outcomes

PSO1: Entrepreneurship development. Student can gain the skills of setting up their own business.

PSO2: Develops proficient skills in the field of computer graphics for still and animated contents with the use of latest creative technologies in Media and Entertainment industry.

Course Outcomes

Semester: I

Paper: Drawing & Colour–I

CO1: The ability to synthesize the use of drawing, perspective, two-dimensional design, and color.

CO2: Understanding of basic principles of drawing, colors medium and techniques, concepts, and the ability to apply them to a specific aesthetic intent.

CO3: Create landscape and collage.

CO4: Explore the expressive possibilities of various media, and the diverse conceptual modes available to the painter.

Paper: Introduction to 3D–I

CO1: Understand Key, Show or hide menu, Snap to grid, hot box display.

CO2: Explain Viewports of Maya.

CO3: Explain Mesh, Channel box, Layer editor Hotbox and Autosave.

CO4: Develop and create an exterior scene.

Paper: Workshop–I

CO1: Improving the ability to control materials, tools and techniques.

CO2: Innovate first-hand experience and from imagination, and to select their own ideas to use in their work.

CO3: develop creativity and imagination through a range of complex activities

CO4: Develop increasing confidence in the use of visual and tactile elements and materials.

Paper: Elements of Art and Multimedia

CO1: Understand the basic concepts of multimedia technology which will help them to get started easily in multimedia.

CO2: Get knowledge about various terms like, images, text, fonts, file formats.

CO3: Know about the various compression techniques, types of compressions etc

CO4: Design process is very important process for those who want to learn properly about designing.

Semester: II

Paper: Drawing & Colour–II

CO1: Knowledge of the traditions, conventions, an devolutions of the discipline as related to issues of representation, illusion, and meaning.

CO2: Knowledge and skills in the use of basic tools, techniques, and processes sufficient to work from concept to finished product, including knowledge of paints and surfaces.

CO3: Ability to apply them to a specific aesthetic intent

CO4: Create animation based on running/ walking with following the elements of animation.

Paper: Introduction to 3D–II

CO1: Understand Shaders and its type.

CO2: Get knowledge about purpose to use Parent and Child command

CO3: Analyze the Hierarchy of 3D.

CO4: Create an animation of any object (Ball, Walk, Run) using keyframes and graph editor.

Paper: Theory of Media(Print Media & Script writing)

CO1: Identify the difference between traditional printing techniques.

CO2: Determine the flexibility of advertisement

CO3: Analyze the various forms of modern printing..

CO4: Critically analyze the units of Script Writing (Terminology, Concepts, Themes & Loglines)

Paper: Workshop–II (Photography & Adobe Lightroom)
CO1: Understand different kind of cameras, lenses and lights.
CO2: Learn different camera functions like ISO, shutter speed, aperture
CO3: Create dynamic styles
CO4:.Create artificial lens flare for photos.
Paper: Adobe Illustrator
CO1: Get familiarizes students with Adobe Illustrator.
CO2: Learn different types of effects used in Graphic Designing.
CO3: Analyze designs and their processes.
CO4: Design their own publishing.
Semester: III
Paper: Film Appreciation–I
CO1: Identify ways sound contributes to movies.
CO2: Get Knowledge about Performing Art.
CO3: Understand History of Indian Cinema.
CO4: Analyze concepts behind storytelling, Miseen Scène, and cinematography.
Paper: Animation in 3D
CO1: Understand Basic of Character modeling and types of modeling
CO2: Analyze the arms, leg and foot models.
CO3: Evaluate Rendered object in 3D.
CO4: Create Human character modeling and create body parts of human
Paper: Adobe Photoshop
CO1: Understand the difference types of graphics.
CO2: Gaining Knowledge about Image Formats and Pixalisation.
CO3: Enable them to use various tools of Photoshop.
CO4: Get knowledge about different types of editing techniques in Photoshop.
CO5: Develop different photo manipulations.
Paper: HTML5
CO1: Utilize web technologies.
CO2: Administer and maintain a website.
CO3Learn techniques of responsive web design, including media queries.
CO4: Develop, administer, and maintain a web programming system solution.
Paper: CorelDraw
CO1: Utilize graphic designing techniques.
CO2: Administer thoughts into graphics.
CO3: Learn techniques of attractive web designs.
CO4: Develop calendars, event planners and other graphic designs.
Paper: Project - V
CO1: Utilize their skills to develop a combination of web technology and graphic designing.
CO2: Learn migrating graphic into websites.
CO3: Learn techniques of attractive web designs.
CO4: Develop own online portfolios.
Semester: IV
Paper: Adobe Flash
CO1: Create basic shapes and used Tweening on it.
CO2: Build Small Animations using timeline
CO3: Execute Expressions on Keyframes
CO4: Create e-cards with sound.
Paper: PHP
CO1: Understanding POST and GET in form submission.
CO2: Enable them to read and write cookies.
CO3: Use PHP built-in functions and creating custom functions.
CO4: Get knowledge about databases of phpmyAdmin portal.
Paper: Dream Weaver
CO1: Understand the working of websites in the real world.

CO2: Steps encountered during making any website live
CO3: Analyze and assume an idea about developing website.
CO4: Create websites and web portals for professional and personal uses

Paper: Film Appreciation–II

CO1:. Understand how motion picture industry of India works
CO2: Analyze how the movies are being distributed.
CO3: Explain the stages of film production
CO4: Create own short story

Paper: Project– II

CO1: Learn and work on 3d and 2d animation software
CO2: Develop skill of initiation, planning, execution, regulation and closure
CO3: Analyze the workflow of the project.
CO4: Explain how quality of product is established based upon the customer's needs

Semester: V

Paper: Adobe Premiere Pro

CO1: Design clean as well as expert titles for your video clips
CO2: Edit a whole video clip from starting to finish, utilizing expert and also effective strategies.
CO3: Color corrects your video clip to repair problems with white balance and also direct exposure.
CO4: Modify your video clips, as well as make them a lot more vibrant with cutaway video footage and also images

Paper: Adobe After Effects

CO1: Describe characteristics of well-designed and executed animation.
CO2: Assess and critique past and current animation trends
CO3: Demonstrate progress in basic sculpting, puppet making and animation skills
CO4: Create Motion Graphics.

Paper: Workshop–III

CO1: Get knowledge about production process
CO2: Learn 3 different kinds of production processes
CO3: Learn about different kinds of topics like frame rate, storyboard, camera angles, exposure and many other things.
CO4: Develop their own documentary.

Paper: Sound Editing and Recording

CO1: Working with video, Attaching & detaching a video
CO2: Understand Basic editing, editing tools, Play the content of the clipboard
CO3: Working with All Effects, Sampling Sound, MIDI synchronization
CO4: Create their own mashups and mix Audio

Paper: Technical Theory of Media – II (Electronic Media)

CO1: Able to use the skills in the creative industry – be it television channels, information technology, public relations, or corporate communication.
CO2: simplify technical content in simple language and multimedia as part of technical communication
CO3: Get equipped with lots of soft skills required of many of the managerial and high-profile jobs
CO4: Develop and implement communication for development projects at local, regional and global levels

Paper: Project–III

CO1:.Use adobe Premiere, aftereffects and Sound forge.
CO2: Create visual outputs.
CO3: Handling different Extensions for Deferent platforms
CO4: Executing software integration and Project Rendering

Semester: VI

Paper: 3D Studio Max

CO1: Gain knowledge about the interface of 3D Max
CO2: Learn working with Nurbs, which will help them to create more smooth and attractive models.
CO3: Understand many different mapping techniques and many kind of materials.

CO4: Design their own 3d Models of different characters.

Paper: Introduction to 3D

CO1: Know about types of modeling to use in creating models.
CO2: Understand 12 basic principles of animation
CO3: Analyze Mapping and texturing
CO4: Develop their own 3d Object Model.

Paper: Drawing & Illustration

CO1: An understanding of basic principles of drawing and color, concepts.
CO2: Ability to synthesize the use of drawing, two-dimensional design, and color, beginning with basic studies and continuing
CO3: Knowledge and skills in the use of basic tools, techniques, and processes sufficient to work from concept to finished product, including knowledge of paints and surfaces.
CO4: Use drawing and illustration skill to visually communicate abstract concepts.

Paper: Workshop–IV: (Stop Motion)

CO1: Create accurate and aseptically appealing stop motion animation
CO2: Describe characteristics of well-designed and executed animation
CO3: Demonstrate progress in basic sculpting, puppet making and animation skills.
CO4: Critically analyze your creative work and the work of others.

Paper: Blender

CO1:. Create animation of different types of ball using key frames and graph- editor
CO2: Create an exterior scene of any building
CO3: Use Camera and lights in Interior (lab)
CO4: Create a dice, chair, table and sofa with proper detail

Paper: Project – IV

CO1: Understanding software integration.
CO2: Create time laps video.
CO3: Modify 3d objects using blender.
CO4:.Create output using 3d.

Semester: VII

Paper: Maya

CO1: Model the arms, leg, foot, hand etc. in detail
CO2: Rigged the body using kinematics, deformers
CO3: Create Ear and Eyes
CO4: Create animation using principles such as walk cycle, Run cycle, Jump and Push.

Paper: Mudbox

CO1: Get knowledge about creating different 3D models and objects
CO2: Understand how 3D objects are made and sculpted, which are commonly used in VFX, games and many other fields.
CO3: Depth knowledge about animation in 3D Max, animating an object will improve their work a lot more and help them to get in 3D field
CO4: Compile different textured models using 3d Models

Paper: Project–V

CO1: Understand how 3D objects are made and sculpted, which are commonly used in VFX, games and many other fields.
CO2: In Maya, they will get knowledge about creating different 3D models and objects
CO3: In Mudbox, they will get to know about sculpting
CO4: Create their own interior and exterior designs

Semester: VIII

Paper: 3D and Animation in Photoshop

CO1: Understanding 3d in Photoshop.
CO2: Understanding features of extended version.
CO3: Creating 3d Text using Extrude and postcard feature.
CO4: Create and Rendering 3d Logos.

Paper: Motion Graphics for Commercials

CO1: Learn use of motion graphics in various fields like in T.V., commercials, videos and many different kind of productions, how they use motion graphics along with other things to make their product/film/video love more attractive.

CO2: Understand Animation process, because understanding basic animation process can help them to make their animation more realistic and more attractive.

CO3: Know the proper use of motion graphics on the web, because motion graphics is the major part of web. Developers use motion graphics with other techniques to make their websites and web pages standout.

CO4: Getting knowledge about motion graphic composition will also help them in improving their work flow, which will make them work faster and accurately.

Semester: VIII

Paper: 3D Human Modeling and Animation

CO1: Get to know many different mapping techniques and many kind of materials.

CO2: Learn cloning objects and objects array's, grouping and linking objects.

CO3: Get in depth knowledge about animation in 3DMax, animating an object

CO4: Develop their work to gain position in 3D field.

Paper: Industrial Training

CO1: Execute the operation of equipment and/or procedures associated with multiple facets of multimedia. These may include: digital-photography, page layout, typography, video, audio, interactive media, and web design.

CO2: Gain experience with multimedia processes using current, recognized, industry-standard software as well as computer hardware and software associated in both Mac and Windows platforms.

CO3: Demonstrate an advanced knowledge of photo editing including: image manipulation, color correction, compositing, toning, and preparing for distribution.

CO4: Assemble video projects in professional non-linear editing software showing proficiency in importing, exporting, effects, transitions, color correcting, and flow.

Department of Fine Arts

Name of the Program: Bachelor of Fine arts (BFA- Painting) (4 Years degree program)

Programme Outcomes

PO 1: The students acquire knowledge in the field of fine arts which make them sensitive and sensible enough.

PO 2: The BFA graduates are acquainted with the artistic traditions and thinking.

PO 3: Programme familiarizes them with the nuances of fine arts which make them effective communicator through brush and colours.

PO 4: The programme enhances the confidence of the graduates through carefully chosen curriculum with emphasis on practical learning, activities and close interaction with teachers and fellow students.

PO 5: The programme does not restrict the graduates to one specific lane. It empowers them to appear for various competitive examinations or choose the post graduates Programmes of their choice.

PO 6: The programme enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.

PO 7: The students are given an exposure to creative environment which sparks their thoughts, process and help to think of the solutions of various issues in life to make this world a better place to live.

PO 8: Use of ICT helps in providing experiential learning which deeply embeds and has long lasting impact.

PO 9: This programme prepares them well to explore and avail opportunities available.

PO 10: The programme lays the foundation to become a responsible citizen and meaningfully contribute to society.

Programme Specific Outcomes

PSO 1: The students are enabled to acquire knowledge in the field of fine arts which make them sensitive and sensible enough.

PSO 2: The graduates will be acquainted with the artistic traditions and thinking.

PSO 3: The programme also would empower the graduates to appear for various competitive examinations or choose the post graduate programmes of their choice.

PSO 4: The programme will enable the students to acquire the knowledge with human values framing the base to deal with the various problems in life with courage and humanity.

PSO 5: The students will be stimulated enough to think and act over for the solution of various problems prevailed in human life to make this world better than ever.

PSO 6: The programme would provide them the base to be the responsible citizen.

Course Outcomes Semester-I

Paper: Drawing-I

CO 1: Understand and explain structure of human figures.

CO 2: Draw painting of flower, plants, & insects.

CO 3: Differentiate between the basic discipline of beautiful handwriting, sense of letter writing and basic study of calligraphy style in English and Hindi.

CO 4: Illustrate landscape & nature of clouds. Shading, rendering, hatching etc.

Paper II Design 2D/ Color (Practical)

CO 1: Interpret their self with the concepts of color in art and to what ends artists use it.

CO 2: Identify works with color, value, hue, etc. as predominant themes or techniques in the work

CO 3: Create their own work that demonstrates an understanding of color.

CO 4: Understand and analyse two dimensional space and its organizational possibilities

CO 5: Explain elements of pictorial expression related to concepts of space and forms.

CO 6: Determine the pictorial elements such as point, line, shape, volume, texture, light and color, Basic design problems.
CO 7: Draw various types of objects into flat pictorial images.

Paper III Design 3D (Practical)

CO 1: Build basic structure in claylike spherical, conical and cylindrical.
CO 2: Differentiate between the properties of cement and terracotta.
CO 3: Explain the term relief sculpture with the technique of shilpakar.
CO 4: Make use of thermocol in making any art work

Paper IV Print Making (Practical)

CO 1: Anticipate the process of gathering Impressions with the various fundamental methods of taking prints.
CO 2: Differentiate between various surfaces and textures of natural and man-made things.
CO 3: Understand the use of Lino, Wood and the techniques of taking prints.
CO 4: Create prints in monochrome.

Paper V History of Arts (Theory)

CO 1: Evaluate the process of Prehistoric Art in India with its geographical areas with special reference to Bhim Bhetka Caves.
CO 2: Describe the various artistic skills of Indus Valley people in various artistic fields.
CO 3: Identify the socio cultural and artistic activities under Mauryan period. The emergence of Buddhism in Indian soil analyze by the students.
CO 4: Evaluate the architectural details of Buddhist architecture and other features of Buddhism.
CO 5: Illustrate the various styles of Buddhist sculptural art and its characteristics with the jataka stories and other episodes of Buddha's life in Snachi.

Semester-II

Paper I Drawing (Practical)

CO 1: Create Common methods of digital drawing including a stylus or finger on a touchscreen device, stylus- or finger-to-touchpad, or in some cases, a mouse.
CO 2: Analyse elements of perspective: study of basic solids, plan and elevation, main aspects of parallel and triangular perspective.
CO 3: Differentiate between the basic discipline of beautiful handwriting, sense of letter writing and basic study of calligraphy style in English and Hindi.
CO 4: Use Gothic, Block Letters (Condense and Normal) type, its construction of letters and spacing, Roman type, its construction of letter and spacing

Paper II Design 2d / Color (Practical)

CO 1: Identify works with color, value, hue, etc. as predominant themes or techniques in the work
CO 2: Develop an awareness of pictorial space- division of space form and relation with space observation of primitive, folk and miniature paintings as well as graphic designs.
CO 3: Develop an awareness of inter-Relation of different shapes and forms relative values.
CO 4: Evaluate understanding the color qualities in its variations of warm and cool colors, harmony and contrast.
CO 5: Create colored designs with regular irregular forms Mosaic/Mural/Flat Gradation effect.
CO 6: Create space through form and color- Optical illusions. Handling of various types of material for pictorial organization and rendering, such as; Pencil, pen, brushes, water colors, poster paints, pastel crayon, inks, cellophanes, oil newsprint and other college material, gums and adhesives, wax crayon with inks, etc. A coordinated series is basic

design problems with aesthetic and analytical approach. Off the composition of letters, spacing organizations- intuitive and logical planning

Paper III Design 3D (Practical)

CO 1: Build basic structure in clay like spherical, conical and cylindrical.
CO 2: Explain process of making wood block structure.
CO 3: Understand the term relief sculpture with the technique of Plaster of paris.
CO 4: Use metal sheet in making any art work

Paper IV Print Making (Practical)

CO 1: Anticipate the process of gathering Impressions with the various things like rice paper, handmade paper etc.
CO 2: Differentiate between various surfaces and textures of various fabrics.
CO 3: Demonstrate the process of Lino and the techniques of taking prints.
CO 4: Take prints in the process of screen printing.

Paper V History of Arts (Theory)

CO 1: Categorize artistic creativity of sculptural art of Mathura and Gandhara under Kushana Dyanasty.
CO 2: Evaluate the various knowledge about the artistic skills in terms of architecture, sculpture, painting and it will also enhance the ability of students to learn about the socio political scenario of Gupta dynasty especially in Mathura and Sarnath.
CO 3: Illustrate the Techniques of wall painting, the nature of colors and modes of various themes in Ajanta and Bagh Caves
CO 4: Analyze the various sculptural characterstics of art of Hoysallas and Badami

Semester- III

Paper History of Arts (Theory)

CO 1: Analyze the revival of Hinduism in Indian soil after the decline of Gupta Dynasty. They also evaluate the scio political scenario of India in Various places in Early Medieval period.
CO 2: Differentiate between Post Classical Sculputres of Pallava, Ellora and Mahabalipuram
CO 3: Explain technique of various Chola Bronzes Sculptures.
CO 4: Demonstrate the architectural details of Hindu Temple and its types. The various kinds of sculptural activities enhance the structure of temple
CO 5: Understand the sculptural art during Chandella Dynsaty.

Paper II Aesthetics (Theory)

CO 1: Classify the growth of "Art", their Functions and Aims of art.
CO 2: Analyze the classification development of the Categories of Art - Visual and Performing Arts. It will enable them to analyze the Inter-relationship between Visual and Performing Arts.
CO 3: Identify, describe and compare/contrast between Art and Craft.
CO 4: Understand the Elements of art-line, form, colour, texture and tone.
CO 5: dentify & analyze the key facts of Principles of Art-Balance, Harmony, Perspective, Emphasis, Rhythm and Movement.

Paper III Method and Materials (Theory)

CO 1: Explain the composition and role of the importance of the Study of Method and Materials.
CO 2: Analyze levels, role and responsibilities of the "Deterioration of painting and Beautiful Materials.
CO 3: Differentiate the nature and characteristics of various drawing Materials-Pencil and Pen drawing, Charcoal drawing, Black and red Chalk-drawing.
CO 4: Analyze and describe the development of Painting materials-water Colour Painting, Oriental Ink Painting and Oil Painting.

CO 5: Use the Crayon and Pastel Gouche.

Paper IV Portrait (Practical)

CO 1: Understand the construction of skull, planes and masses of head.

CO 2: Create the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: Draw different shapes of different part and modelling.

CO 4: Draw portrait using light and shades in different mediums.

Paper V Life Drawing (Practical)

CO 1: Draw figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life

CO 2: Demonstrate life model to develop understanding of the human structure; volume in perspective and foreshortening, proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

CO 3: Illustrate life drawing of the human figure.

Paper VI Composition Painting (Practical)

CO 1: Draw 2d & 3d paintings.

CO 2: Create figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life.

CO 3: Explain line, drawing, color, texture, form & space, balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment.

CO 5: Draw outdoor & indoor sketching. Study of eye level and perspective balance and Rhythms to be used in composition.

Paper VII (B) Computer Graphics (Practical)

CO 1: Explain various computer softwares of art world

CO 2: Work on art projects which help in increased productivity and efficiency of work

CO 3: Create technical drawing with the use of software

CO 4: Use modeling techniques for creating 3D-printed objects.

Semester-IV

Paper History of Arts (Theory)

CO 1: Describe Indian Miniature Painting and its emergence in India with special reference to Mughal, Rajasthani, and Pahari.

CO 2: Understand the Techniques used in different phases of Miniature art of India and its subject matter and coloristic approach.

CO 3: Identify the art of Mughal under Akbar and Jahagir

CO 4: Classify the style of Rajastahni Art especially mewar, Bundi and Kishangarh.

CO 5: Differentiate the style of Kangra and Basohli Art in details.

CO 6: Analyze emergence of European Impact in social scenario and in the artistic activities of Indian art.

CO 7: Explain the folk art of West Bengal, its techniques and emergence of Kaighat painting as a source of new style in Indian art.

CO 8: Explain the temple wall paintings of Tanjore with its techniques, Colors and style.

Paper II Aesthetics (Theory)

CO 1: Understand the meaning of "Art".

CO 2: Explain the role of art in human life.

CO 3: Explain the Theory art & morality.

CO 4: Differentiate between art & communication.

CO 5: Compare and contrast study of art & expression.

Paper III Method and Materials (Theory)

CO 1: Understand the meaning of Varnishes and its various types
CO 2: Explain Glues
CO 3: Explain the process of Preparation of Canvases
CO 4: Interpret the various techniques of Oil Paints and Oil, Drying oils, Thinners and their uses in the field of art especially in painting.

Paper IV Portrait (Practical)

CO 1: Construct skull, planes and masses of head.
CO 2: Create the details such as eyes, mouth, nose, bust from different angles and eye levels etc.
CO 3: Create character of different shapes of different part and modelling.
CO 4: Understand the process of perspective and foreshortening in figure.
CO 5 Demonstrate the handling of colors in various ways which suitable to portraiture.

Paper V Life Drawing (Practical)

CO 1: Create figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life
CO 2: Explain life model to develop understanding of the human structure; volume in perspective and foreshortening proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

Paper VI Composition Painting (Practical)

CO 1: Draw 2d & 3d paintings
CO 2: Analyze the elements of arts
CO 3: Differentiate among the line, drawing, colour, texture, form & space
CO 4: Understand the Compositional exercise based on objects
CO 5: Draw outdoor & indoor sketching

Paper VII (B) Computer Graphics (Practical)

CO 1: Demonstrate art works on virtual models and in various colors and shapes, thus saving time by requiring fewer adjustments of prototypes and samples later.
CO 2: Create logo, art, models to create patterns, adjust sizes and even determine fabric colors.
CO 3: Explain single art work to varying materials and patterns, and build upon and alter existing art works to create new pieces.
CO 4: Draw and create textures, patterns, adjust sizes and even determine acrylic colors. By Introducing this technological aspect will enable students to understand a lot better and try various combinations in their design.

Semester- V

Paper II History of Arts (Theory)

CO 1: Identify and define world's earliest work of art in the western counterpart including Paleolithic, Mesolithic and Neolithic Revolution. They learn how the people used their creativity in the making of various tools and paintings.
CO 2: Analyze the artistic characteristics of Greek Civilization with the help of their Geographical settlements, their knowledge of making sculptures, pottery and other art works.
CO 3: Analyze characteristics of Roman Empire and their sculptural art forms in different mediums and their techniques of pa
CO 4: Understand the key facts of Christianity in the Europe by making the Catacombs, illuminated manuscripts and other details of architecture.

CO 5: Explain the formation of Cathedrals with huge sculptures and various kind of paintings which show the skills and mastery of artists of Gothic period.

Paper II Aesthetics (Theory)

CO 1: Explain the concept of Art. Art is the expression of a man's feelings and imagination on through a medium. When both are given a form, it is called art.

CO 2: Understand the meaning of "Artist has total freedom to deny reality because they are supposed to be the creator of beauty."

CO 3: Explain an artwork of Van Gogh - Sunflower painting.

CO 4: Differentiate the Theory of Rasa & Bhava given by different philosophers Anand Vardhan, Bharat Muni, Abhinav Gupta and Six limbs of Indian Paintings (Shadangas).

CO 5: Evaluate the Fundamentals in Indian Art as in Chitrasutra and Pratimalakshana of Vishnudharmottram, Shilparatna, Sukranitisara. They also understandIndian concept of Beauty according to Veda and Literatura

Paper III Method and Materials (Theory)

CO 1: Explain the terminology 'background', a ground is the very first layer of paint (or other wet medium) applied to an artwork. It is an undercoat, which can either be covered entirely by subsequent media, or left visible in the final work. Using a ground has several practical advantages, as well as some important aesthetic ones

CO 2: Classify three different types of colors: primary, secondary, and tertiary colors. The primary colors are red, yellow, and blue. The secondary colors are green, orange, and purple Classification of colours

CO 3: Identify Sources, characteristics and durability of pigments, Causes of colours changing, Priming and ground recipes.

Paper IV Portrait (Practical)

CO 1: Construct a skull, planes and masses of head.

CO 2: Create the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: Create character of different shapes of different part and modelling.

CO 4: Differentiate between perspective and foreshortening in figure.

CO 5: Demonstrate handling of colors in various ways according to portraiture.

CO 6: Create various features along with exercising various expression in facial and muscular form.

Paper V Life Drawing (Practical)

CO 1: Understand the various proportions of human anatomy by using various gestures and postures in human anatomy.

CO 2: Demonstrate life model to develop understanding of the human structure; volume in perspective and foreshortening, proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

CO 3: Illustrate life drawing of the human figure .

Paper VI Composition Painting (Practical)

CO 1: Draw 2d & 3d paintings

CO 2: Analyze the elements of arts

CO 3: Differentiate among the line, drawing, colour, texture, form & space

CO 4: Understand the Compositional exercise based on objects

CO 5: Draw outdoor & indoor sketching

Paper VII (B) Computer Graphics (Practical)

CO 1: Develop products and product management integration.
CO 2: Develops products to be used by consumers.
CO 3: Produce very accurate art works; draw 2D or 3D and rotated; other computer programmers linked to the design software.
CO 4: Create the layout of the business card, poster, greeting card and much more.
CO5: Create technical drawing with the use of software

Semester- VI

Paper I History of Arts (Theory)

CO 1: Analyze the emergence of new artistic art movement Renaissance with detailed views on social political scenario of Europe.
CO 2: Compare and contrast the artistic values and views of the genius of High Renaissance.
CO 3: Understand the emergence of Baroque art as new artistic activity in different area of Europe with different style, medium and themes.
CO 4: Explain Neo Classicism through the theme, style, and works of art made by the artists.
CO 5: Evaluate the tem Romanticism in details with the works of different artists in various places of Europe.

Paper II Aesthetics (Theory)

CO 1: Understand the Theory of western aesthetics.
CO 2: Explain the study of aesthetics during Greek classical Period
CO 3: Tell about the Greek philosophers on beauty.
CO 4: Compare and contrast art & society Aesthetics

Paper III Method and Material (Theory)

CO 1: Use oil colors & Acrylic colors
CO 2: Explain the detail study of glazes
CO 3: Tell about the distemper
CO 4: Differentiate between Plano graphics and instigation Paintings

Paper IV Portrait (Practical)

CO 1: Understand the construction of skull, planes and masses of head.
CO 2: Create the details such as eyes, mouth, nose, bust from different angles and eye levels etc.
CO 3: Explain the concept of drawing.
CO 4: Understand the process of perspective and foreshortening in figure.
CO 5: Demonstrate the handling of colors in various ways which suitable to portraiture.
CO 6: Create various features along with exercising various expression in facial and muscular form.

Paper V Life Drawing (Practical)

CO 1: Differentiate between male and female human anatomy structure
CO 2: Create full composition using various view angles of live model
CO 3: Draw the human figure from observation of a live model. A figure drawing may be a composed work of art or a figure study done in preparation for a more finished work such as a painting.
CO 4: Understand the creation of human anatomy in natural light and artificial light.

Paper VI Composition Painting (Practical)

CO 1: Draw 2d & 3d paintings
CO 2: Analyze the elements of arts
CO 3: Differentiate among the line, drawing, colour, texture, form & space
CO 4: Understand the Compositional exercise based on objects
CO 5: Draw outdoor & indoor sketching

Paper VII (B) Computer Graphics

CO 1: It opens the doors for independent artists who may have fewer employees and therefore can't waste time and resources doing sketch after sketch.

CO 2: Draw and create textures, drape models to create patterns, adjust sizes and even determine fabric colors. By Introducing this technological aspect will enable students to understand a lot better and try various combinations in their design.

CO 3: Correct errors and develop better quality work in less time

CO 4: Develop integral skills required in all areas of study and work related to education and employment.

Semester BFA VII

Paper I History of Arts (Theory)

CO 1: Explain modern art of India with special reference to Bengal School of Art.

CO 2: Understand new artistic activities in India with different styles of art in the early 20^{th} century A.D.

CO 3: Interpret western art movements in Europe.

CO 4: Analyze Impressionism by the works of their artists like Monet, Manet, Renior, and Degas.

CO 5: Describe artistic techniques used by the artists of Post Impressionism with their works.

CO 6: Critical analysis of the subject matter and techniques of Fauvism.

Paper II Aesthetics (Theory)

CO 1: Understand the concept of creative process.

CO 2: Explain the role of Imitation in art.

CO 3: Characterize the role of subconciousness in art.

CO 4: Analyze the theories related to works of art with special reference to Form and Content and Expressiveness.

CO 5: Explain the process of intuition in art.

Paper III- Method and Materials (Theory)

CO 1: Understand the technique and material of Fresco wall painting.

CO 2: Explain the process of Jaipur method.

CO 3: Interpret the technique, its color scheme of Ajanta Painting.

CO 4: Describe methodology of Mosaic.

Paper IV Portrait (Practical)

CO 1: Construct skull, planes and masses of head.

CO 2: Create the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: Explain the concept of drawing.

CO 4: Understand the process of perspective and foreshortening in figure.

CO 5: Demonstrate the handling of colors in various ways which suitable to portraiture.

CO 6: Create various features along with exercising various expression in facial and muscular form.

Paper V Life Drawing (Practical)

CO 1: Simplify the form and show different kind of emotions.

CO 2: Use different textures in body rendering.

CO 3: Understand the creation of human anatomy in natural light and artificial light.

CO 4: Explain the human figure from observation of a live model. A figure drawing may be a composed work of art or a figure study done in preparation for a more finished work such as a painting.

Paper VI Composition Painting (Practical)

CO 1: Draw 2d & 3d paintings
CO 2: Analyze the elements of arts
CO 3: Differentiate among the line, drawing, colour, texture, form & space
CO 4: Understand the Compositional exercise based on objects
CO 5: Draw outdoor & indoor sketching

Paper VII (B) Computer Graphics (Practical)

CO 1: Create new sketches more quickly and more precisely. They can also easily adapt a single design to varying materials and patterns, and build upon and alter existing designs to create new pieces
CO 2: Design buildings using software tools.
CO 3: Create a vast range of high-quality marketing content, including designing content for your social media profiles such as Face book, twitter etc producing animated banner ads and creating a stylish and innovative design.
CO 4: Create the layout of the business card, poster, greeting card and much more.
CO 5: Find new design solutions

Semester-BFA VIII

Paper I History of Art (Theory)

CO 1: Interpret the Progressive artist group.
CO 2: Understanding various theories (groups) of Indian Art-Delhi, Calcutta and Madras (Chola Mandalam, Shilpi Chakra).
CO 3: Analyze various western art movements and its impact.
CO 4: Differentiate among cubism Futurism, Dadaism and Surrealism through their prominent artists-Picasso and Braque, Boccioni, Duchamp and Salvador Dali.
CO 5: Explain the meaning, nature and scope of the "Abstract Art"- Wassily Kandinsky and Piet Mondrian for young artists through their art.
CO 6: Interpret the Artistic change due to the working of "Pop Art" through their artists-Andy Warhole and Roy Lichenstein.

Paper II Aesthetics (Theory)

CO 1: Understand the theories related to response and appreciation with empathy pleasure.
CO 2: Classify the appreciation in work of art.
CO 3: Evaluate how narration is important in work of art from the prehistoric art to till contemporary art.
CO 4: Classify the term Abstraction in art with examples of works of few artists.

Paper III Method and Material (Theory)

CO 1: Explain Fresco Wall, Plastering and its main types and technique of fresco.
CO 2: Analyze the techniques, material used in the Jaipur Method.
CO 3: Differentiate the style and working process of Seceo Painting
CO 4: Understand the style and technique of Ajanta with various color preparation.
CO 5: Describe the term Mosaic its types and techniques.

Paper IV Portrait (Practical)

CO 1: Understand the construction of skull, planes and masses of head.
CO 2: Create the details such as eyes, mouth, nose, bust from different angles and eye levels etc.
CO 3: Explain the concept of drawing.
CO 4: Differentiate the process of perspective and foreshortening in figure.
CO 5: Evaluate the demarcation of character and its expression, gesture, posture, drapery and individualistic style of execution.
CO 6: Create various features along with exercising various expressions in facial and muscular form.

Paper V Life Drawing (Practical)

CO 1: Draw figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life

CO 2: Demonstrate life model to develop understanding of the human structure; volume in perspective and foreshortening, proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

CO 3: Illustrate life drawing of the human figure.

Paper VI Composition Painting (Practical)

CO 1: Draw 2d & 3d paintings

CO 2: Analyze the elements of arts

CO 3: Differentiate among the line, drawing, colour, texture, form & space

CO 4: Understand the Compositional exercise based on objects

CO 5: Draw outdoor & indoor sketching

Paper VII B Computer Graphics (Practical)

CO 1: Create pictures and films using computers. Usually, the term refers to computer-generated image data created with help from specialized graphical hardware and software.

CO 2: Design logo, brochure design, flex board, pamphlets etc.

CO 3: Prepare visiting card using various tools of Adobe Photoshop.

CO 4: Demonstrate the process of masking and its types.

CO 5: Analyze the software in the creation of different print media

Department of Fine Arts

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: - Fine Arts (Theory & Practical)

CO 1: Sensitize and develop sensible mind with critical bent and acquiring the basics of Fine Arts through the "Indian Art History".

CO 2: Develop creative skill with six limbs of Indian Painting (Shadanga)

CO 3: Identify the techniques of Indian painting and understand the application of Colour, Texture, Light & Shade Perspective, Rhythm, and Balance & Harmony.

CO 4: Understand the composition, Classical Mural tradition of Ajanta paintings & technique.

CO 5: Identify & describe the emergence of earliest Indus Valley Civilization in India.

CO 6: Understand & apply creative writing of different style, still life and Collage making.

Semester-II

Paper- Fine Arts (Theory & Practical)

CO 1: Interpret Mauryan Sculptures and Pillars-Sarnath, Rampurva, Parkham and Didarganj through Indian History of Art.

CO 2: Understand and analyze the Indian sculptures of karle and Bhaja caves.

CO 3: Locate rich reservoir of Indian Art laying in the different parts of the country like Sanchi Stupa, Amaravati Stupa and Bharhut Stupa.

CO 4: Analyze Kushana period in Mathura Art and Gandhara Art.

CO 5: Evaluate different types of still life objects and will impart knowledge to understand proportion, volume, texture and light & shade.

CO 6: Create posters on social awareness.

Semester-III

Paper- Fine Arts (Theory & Practical)

CO 1: Evaluate consolidation of the Classical Gupta Sculpture of India-Mathura and Sarnath.

CO 2: Analyze Post Classical Sculputres of Ellora, Elephanta and Mahaballipuram.

CO 3: Analyze various Chola Bronzes Sculptures and its technique.
CO 4: Compare and contrast 2 dimensional and 3 dimensional designs based on folk forms.
CO 5: Understanding the Head Study (Male/Female) through structure, Volume, Proportion, texture, light & shade in Monochromatic Colour Scheme.

Semester-IV

Paper- Fine Arts (Theory & Practical)

CO 1: Describe Early Indian Miniature Painting (Pala Paintings) Buddhism
CO 2: Understand and grasp the western Indian Miniature Paintings (Jain Paintings) Jainism.
CO 3: Explain Mughal Art (Painting) under Akbar and Jahagir.
CO 4: Classify Rajastahni Art (Painting) mewar, Bundi and Kishangarh.
CO 5: Differentiate between Kangra Art and Basohli Art.
CO 6: Understand the Practical art work-Landscape through study of clouds, trees and foreground. The students will also understand the Full life study (Life/Cast) through the study of muscles and bones.

Semester-V

Paper- Fine Arts (Theory & Practical)

CO 1: Create skillful artistic creation by using techniques and methods appropriate to the intended result.
CO 2: Interpret the role of art making in the larger social context
CO 3: Develop artistic autonomy to identify and focus on their idea and continue to learn over the length of their career
CO 4: Develop a working knowledge of relationship to art history criticism and theory.
CO 5: Locate, interpret and analyze primary and secondary sources to research questions.

Semester-VI

Paper- Fine Arts (Theory& Practical)

CO 1: Evaluate the impact of British on Indian art with special reference to Company School of Art.
CO 2: Differentiate between artistic creation and activity of Bengal which show the impact of socio cultural scenario of Bengal in Late 19^{th} C. A.D.
CO 3: Explain the different trends of creation in the artistic way in the contemporary art of Early and Mid-20^{th} C.A.D. with the help of artist's works like Amrita Shergill, Jamini Roy, Sobha Singh, and M.F. Hussain.
CO.4: Apply basic principal of life study and color, concepts, media and formats.
CO 5: Draw two dimensional and color, beginning with basic studies and continuing throughout the degree program

Post Graduate Department of Fashion Designing

Name of Programme: B.Sc. Fashion Designing

Programme Outcomes

PO 1: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-Informatics, Bio-technology etc.

PO 2: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PO 3: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PO 4: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.

PO 5: To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 6: The programme targets to develop scientific aptitude among the students to make them open-minded, critical and curious in order to deal with all aspects related to life.

PO 7: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

Programme Specific Outcome

PSO 1: The students will have the basic foundation in designing and have the ability to visually represent it by illustrations, photographs, graphics and visual display of merchandising.

PSO 2: The students will be able to convert their designs into a garment using appropriate construction techniques.

PSO 3: The students will have a strong foundation and understanding of the garment manufacturing process and procedures.

PSO 4: Successful graduates of the course are lucratively employed in various sectors- such as export houses, garment manufacturing units, leather companies, jewellery houses etc.

Course Outcomes

Semester –I

Paper I: Basic of Design and Illustration

CO 1: To help students to understand and define design fundamental, elements and principles of design.

CO 2: To enable students to demonstrate figure sketching and drawing.

CO 3: To understand the what, why and how of illustration techniques

CO 4: Students will be able interpret Fashion Design concepts and colour theories.

Paper II: Concept of Fashion

CO 1: Students will be able to find and discuss concepts related to the historical background of fashion

CO 2: Students will be able to interpret, assess, purpose and apply various techniques related to drafting, draping.

CO 3: Students will be able to interpret different fashion cycles and theories of fashion

CO 4: Students will be able to interpret social and psychological aspects of clothing

Paper III: Basics of Sewing-I

CO 1: Students will able to define and construct various sleeves e.g. Puff, raglan, kimono etc.

CO 2: Students will able to explain Yokes with fullness and without fullness

CO 3: Students will able to understand and translate Construction of collars – Flat and rolled, peter-pan collar

CO 4: Student will be able to make use of Sewing machines and other basic sewing techniques used for Garment formation.

Paper IV: Basics of Computers

CO 1: Students will able to Define and understand the basics knowledge of computers.

CO 2: Students will learn to compare between an operating system and an application program.

CO 3: Student will be able to identify General concept of MS-Word.

CO 4: Student will be able to analyze Computer applications in various fields of fashion Industry

Paper V: Fiber to Fabric

CO 1: Students will able to tell and identify different types of Fibers and yarns.

CO 2: Students will be able to identify different fibers to know the fabric type with Microscopic appearance, burning test and solubility test.

CO 3: To extend student's knowledge of fiber, sources of fibers, their definitions and properties

CO 4: To provide students with understanding of yarn science and yarn properties.

Semester-II

Paper I: Traditional Textiles

CO 1: Students will able to summarize, differentiate & learn types of carpets, colored woven & printed textiles of India.

CO 2: Students will be able to analyse various effects, texture and basics of art and design world.

CO 3: To extend student's knowledge of traditional design and motifs of textiles.

CO 4: To demonstrate applications of the traditional motifs on different textiles.

Paper II: Fabric Construction

CO 1: Students will be able to discover various techniques of weaving, knitting, felting & bonding.

CO 2: Students will analyze different types of decorative fabric construction techniques.

CO 3: To impart knowledge of fabric manufacture and fabric properties.

CO 4: To enable students to understand fabric structures and to analyze them.

Paper IV: Basics of Computers

CO 1: Students will be able to apply the Professional presentation formations, different views of PowerPoint & animation effects.

CO 2: Student will be able to explain basic Concepts of PowerPoint, CorelDraw & Photoshop.

Semester-III

Paper I: Fashion Design and Illustration

CO 1: Student will formulate the process to work from concept to finished products, including knowledge of paints and surfaces.

CO 2: Students will conclude the various design details and their use in fashion/textiles.

CO 3: Students will be able to analyze two dimensional and three dimensional images.

CO 4: To enable students to gain knowledge of figure sketching and drawing.

Paper II: Colour Concepts & Coloration

CO 1: Students will understand importance of colour & colour schemes.

CO 2: Students will be able to originate different types of dyeing techniques on fabrics.

CO 3: To impart knowledge of fashion design concepts.

CO 4: To enable students to develop practical skills of printing

Paper III: Pattern Making & Garment Construction

CO 1: Students will be able to develop commercial paper patterns & make style reading sheets.

CO 2: Students will able design and construct garments – Salwar suit, blouse, Petticoat.

CO 3: Student will be able to relate different aspects of pattern making and grading.

CO 4: Student will be able to develop the concept of pattern making and draping.

Paper IV: Needle Craft

CO 1: It enables the students to classify methods of surface ornamentation on fabric using different techniques to produce value added products.

CO 2: Students will learn to develop and explain practical skills in needle craft techniques
CO 3: Students will be able learn methods of surface ornamentation of fabric using different techniques to produce value-added products.
CO 4: To enable the students to develop practical skills in needle craft techniques.

Paper V: Knitting Technology

CO 1: Students will be able to demonstrate types, characteristics & structure of knitted products
CO 2: Students will summarize the knowledge of knitted garments.
CO 3: Student will be able to analyze about knitting technology.
CO 4: To enable students to develop practical skills of knitting.

Semester- IV

Paper I: Fashion Design and Illustration (CAD)

CO 1: Students will interpret fashion design concept on computer.
CO 2: Students will gain working knowledge of Corel draw software and will apply hands on knowledge on details and croquies on computer.
CO 3: To understand the fashion design concepts on computer.
CO 4: To acquaint students with perception of CAD based application in fashion designing

Paper II: History of Costumes

CO 1: Students will be able to build and develop costumes for men and women – Indus valley civilization, British period, Mauryan, Mughal period etc.
CO 2: Students will summarize dresses of historic period
CO 3: To acquaint the students with different types of costumes.
CO 4: To assess opportunity for skill development in designing accessories.

Paper III: Garment Construction & Draping

CO 1: Students will apply concept of advance pattern making and different garment construction techniques.
CO 2: Students will be able to learn Commercial pattern making techniques which will support students to work with industry.
CO 3: To introduce concept of advanced garment construction.
CO 4: To impart knowledge of different garment components.

Paper IV: Fashion Illustration & Appreciation

CO 1: Student will discover to design theme based project.
CO 2: Students will design and develop theme based collection on any type of theme.
CO 3: To enable students to create designs by taking inspiration from different themes.

Paper V: Pattern and Marker Making on Computer

CO 1: This course aids in translating patterns and layouts according to body measurements.
CO 2: Students will able to analyze skills of marker plan, pattern making & drawing using computers.
CO 3: To impart the skills of marker plan, pattern making and drawing using computers.

Semester-V

Paper I: Fashion Illustration and Appreciation

CO 1: The highly effective and superior study program brings in opportunity to maximize creative skills by collage making on different theme based collections.
CO 2: Students will illustrate and develop garments by taking inspiration from historical period, monuments, traditional fabric, embroideries and many more themes.
CO 3: Student will be able to appreciate and originate the Fashion Illustrations.

Paper II: Draping, Pattern Making and Construction

CO 1: Students will able to classify and drape stylized skirts, necklines, bodice & torso.
CO 2: Students will be able to Concept of draping and stitching will be utilized in developing garments for clients.

CO 3: Students will be able to construct garments on each theme: • Night Wear • Ethnic wear

Paper III: CAD (Computer Aided Design)

CO 1: Software helps the students to discover the design world, as maximum work is done on software in design world.

CO 2: Software will help students to determine the process of creating technical drawing with the use of computer aided designing.

CO 3: Students will be able to Design different outfits using themes like: • Flora and Fauna • Traditional Fabric and embroidery

CO 4: Student will be able to imagine Minimum 2 designs and create the same on computers.

Paper IV: Internship for Design and Construction of Garments

CO 1: Students will be able to Adapt Designers to work closely with garment technologists and sample machinists. The role could also involve liaising with manufacturers (often based overseas) to make sure designs are reproduced accurately.

CO 2: Students will able to examine and perceive industrial working methods.

CO 3: Students will be able to justify, how management plays an important role in every field.

Paper V: Leather Technology

CO 1: Students will explain Packaging of product –importance and various materials used for packaging.

CO 2: Students will be able to summarize leather manufacturing process.

CO 3: To impart knowledge about Leather technology.

CO 4: To enable students to develop practical skills of leather Product Formation.

Semester-VI

Paper I: Fashion Illustration and Appreciation

CO 1: To classify framework for students to understand the basic concept of illustration.

CO 2: It helps students to interpret different types of color medium in illustration.

CO 3: Students will be able to appreciate work of western and Indian designers

CO 4: Student will be able to illustrate the innovative dresses by the use of appropriate mediums and different presentation skills by taking inspiration of famous western and Indian designers.

Paper II: Pattern Making and Construction

CO 1: This course helps students to perceive, design and develop different types of female garments according to theme based pattern.

CO 2: It helps students in Construction of garments on each theme: • Office wear • Evening wear

CO 3: Students will be able to design and construct any innovative garment based on previous paper.

Paper III: Computer Aided Design

CO 1: Students will able to originate, and develop designs on Corel draw & Adobe Photoshop

CO 2: It helps students in Designing and Construction of outfits on the themes • Season/Casual wear • Party wear • Sportswear/ Uniform (School)

CO 3: It helps students in Draping simulation of designs.

Paper IV: Survey and Project Report

CO 1: Support the student with ability to discover a style that is distinctively consistent.

CO 2: Helps student to develop ability to manage the process of emerging designs through creativity and preparing graduates to work with fashion industry.

CO 3: After completion of the project students will be able to support working on different types of field project.

CO 4: After doing survey on any Indian state, the student will be able to • Make a project report • Design any 10 garments taking it as inspiration

Paper V: Fashion industry, Marketing and Management

CO 1: After studying this course the students should be able to apply various marketing & management aspects to their projects and understand marketing techniques to run any business effectively.

CO 2: Students will be able to inspect the Career & job roles in fashion industry.

CO 3: Students will perceive how management plays an important role in every field of fashion.

CO 4: After completion of the project students will be able define and differentiate Indian and global fashion.

Name of Programme: B.Voc Fashion Technology

Program Outcomes

PO 1: Students will be able to practically understand and apply the knowledge related to the requirements of industry.

PO 2: To provide a judicious mix of professional skills and suitable general education component.

PO 3: To provide flexibility to the students to serve the industry by having exit points at different levels.

PO 4: To provide an opportunity to the students to get on the job training which help them to enhance their professional skills.

Programme Specific Outcome

PSO1: The Bachelor of vacation degree programme in fashion technology introduced under the University Grants Commission's new scheme of skills development.

PSO 2: The aim of B.Voc programme in fashion technology is to integrate Government of India's national skills qualifications framework within the undergraduate level, in order to enhance employability of the graduates and meet industry requirements.

PSO 3: The programme incorporates the requirements of various industries in an innovative and flexible manner which aids to develop holistic and well groomed graduates.

PSO 4: This programme equips students to pursue a wide range of career prospects as designer in apparel manufacturing and merchandising.

PSO 5: This course also tunes student's entrepreneurial skills to set up their own manufacturing units

PSO 6: This programme lays greater emphasis on interaction with the relevant industry in the form of internship.

Course Outcomes

Semester-I

Paper IV: Sewing Techniques-I

CO 1: Students will able to define and construct various sleeves e.g. Puff, raglan, kimono etc.

CO 2: Students will able to explain Yokes with fullness and without fullness

CO 3: Students will able to understand and translate Construction of collars – Flat and rolled, peter-pan collar

CO 4: Student will be able to make use of Sewing machines and other basic sewing techniques used for Garment formation.

Paper V: Fashion Art & Design Development

CO 1: To help students to understand and define design fundamental, elements and principles of design.

CO 2: To enable students to demonstrate figure sketching and drawing.

CO 3: To understand the what, why and how of illustration techniques

CO 4: Students will be able interpret Fashion Design concepts and colour theories.

Paper VI: Pattern Making & Construction-I

CO 1: Student will be able to develop patterns and do garment construction of the following: Basic block, child panty, bloomer, party wear frock, jump suit

CO 2: Student will able to compare patterns and layouts according to body measurement of kids and produce the final apparel product accordingly.

CO 3: Students will be able to develop commercial paper patterns & make style reading sheets.

CO 4: Student will be able to develop the concept of pattern making and draping.

Paper VII: CAD-I

CO 1: Students will find about basics of deigning on computer.

CO 2: Student work on design projects which help in increased productivity and efficiency of work with the help of CorelDraw.

CO 3: Software helps the students to discover the design world, as maximum work is done on software in design world.

CO 4: Software will help students to determine the process of creating technical drawing with the use of computer aided designing.

Paper VIII: Concept of Fashion & Textiles-I.

CO 1: Students will understand & tell basic concepts of fashion and textiles.

CO 2: Students will summarize various technical aspects of printing and finishing of textile products in the industry.

CO 3: Students will be able to find and discuss concepts related to the historical background of fashion

CO 4: Students will be able to interpret, assess, purpose and apply various techniques related to drafting, draping.

Semester- II

Paper IV: Sewing Techniques-II

CO 1: Students will learn to develop samples of sleeves, yokes and collars.

CO 2: Students will learnt to formulate above learnt techniques through drafting, layout and construction of gathered frock.

CO 3: To impart knowledge of fabric manufacture and fabric properties while selecting fabric according to design and age group..

CO 4: To enable students to understand fabric structures and to analyze them while designing any dress.

Paper V: Fashion Illustration & Design Development Skill

CO 1: Students will be able to classify different types of prints and textures related to kids wear.

CO 2: Students will summarize about figure drawings of kids and babies.

CO 3: To understand the what, why and how of illustration techniques

CO 4: Students will be able interpret Fashion Design concepts and colour theories.

Paper VI: Portfolio Development (Kids)

CO 1: Students will be able to communicate effectively with customers to design and develop their garments as per their requirements.

CO 2: Students will develop theme based collection including specification sheet, mood board, story board and many more.

CO 3: Students will be able to design according to the latest trend.

Paper VII: CAD-II

CO 1: Students will able to make use of the basic Concepts of Corel Draw & their tools.

CO 2: Students will learn to design & render fashion details.

CO 3: Students will be able to Design different outfits using kids themes

CO 4: Student will be able to imagine Minimum 2 designs and create the same on computers.

Paper VIII: Concept of Fashion & Textiles-II

CO 1: Student will be able to translate concepts related to fashion and textiles.

CO 2: This course will support knowledge about decorative way of constructing fabrics.

CO 3: Students will be able to interpret different fashion cycles and theories of fashion

CO 4: Students will be able to interpret social and psychological aspects of clothing

Semester-V

Paper III: Computer Aided Designing (CAD)-II

CO 1: Students will be able to design various fashion details by using CorelDraw and Adobe Photoshop.

CO 2: Software helps the students to discover the design world, as maximum work is done on software in design world.

CO 3: Software will help students to determine the process of creating technical drawing with the use of computer aided designing.

Paper IV: Garment Construction and Care Skill

CO 1: After studying this course the students will understand and apply aesthetics in dress.

CO 2: Students will be able to summarize, care and storage of garment and hence plan and imagine the wardrobe.

CO 3: Students will understand suitable selection of clothes.

CO 4: Students will be able to understand and simplify planning of wardrobe.

Paper V: Portfolio Skill

CO 1: Learn about developing the designs whatever is planned or thought, an implementation to the thinking is given.

CO 2: Various design techniques & styles are combined and explored.

Paper VI: Fashion Industry, Marketing and Management

CO 1: After studying this course the student should be able to define about various marketing aspects of his/her designer products

CO 2: It will be help to apply the practical knowledge of fashion market, environment, planning, research, concept of exhibition and fashion shoe.

CO 3: The students will be able to recall the concept of retailing.

Semester-VI

Paper III: Computer Aided Designing (CAD)-III

CO 1: CAD allows for the easier development of products.

CO 2: After studying this course the students will be able to design outfits for casual wear, sportswear, office wear, nightwear, party wear and ethnic wear.

CO 3: It allows students for greater modeling and even provides a basis for virtual networking.

CO 4: Helps the student to interpret that in designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

Paper IV: Pattern making and Garment Construction-II

CO 1: Students will learn to develop Patterns.

CO 2: Students will be able to construct and stitch garments like skirts and bifurcated garments.

CO 2: Students will be able to develop commercial paper patterns & make style reading sheets.

CO 3: Student will be able to develop the concept of pattern making and draping.

Paper V: Quality Control

CO 1: Students learn and find quality and its assurance parameters.

CO 2: Students will be able to interpret the various fabric defects and garment inspection techniques.

CO 3: The courses help the students to understand and interpret packaging and its importance.

Paper VI: Fashion Merchandising

CO 1: Students will able to extend the knowledge of different sectors of garment industry Including sampling, designing, production & marketing.

CO 2: To simplify the knowledge of trend prediction, colour& sales forecasting.

CO 3: Students will perceive, how management plays an important role in every field of fashion.

CO 4: After completion of the project students will be able define and differentiate Indian and global fashion.

Name of Programme: M.Sc. (Fashion Designing & Merchandising)

Program Outcomes

PO 1: This programme brings together the graduates who wish to enhance their skills and gives them an opportunity to develop their careers in a particular direction.

PO 2: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO 3: The programme tends to expertise students in practical work and experiments based on the same so that they can analyze the data effectively.

PO 4: The students will be able to exhibit the capability to study the social and ethical aspects as well as cognizance of ethical facets of research and development work.

PO 5: The masters of science programme provides the candidate with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, entrepreneurship or public administration etc.

Programme Specific Outcomes

PSO 1: This course enables the students to go for various fashion designing industries, film industry and teaching related jobs.

PSO 2: This course includes training, project and guest lectures collaborated with industries help to learn from real life situations.

PSO 3: Hands on experience by working on live projects to develop a sense of problem solving critical thinking in order to gain real life understanding

PSO 4: This course offers subjects like communication and soft skills to enhance personality and employability.

PSO 5: This course also provides golden opportunity for the students to organize fashion show and create professional portfolios.

Course Outcomes

Semester-I

Paper I: Fashion Illustration

CO 1: To classify framework for students to understand the basic concept of illustration.

CO 2: It helps students to interpret different types of color medium in illustration.

CO 3: Students will be able to appreciate work of western and Indian designers

CO 4: Student will be able to illustrate the innovative dresses by the use of appropriate mediums and different presentation skills by taking inspiration of famous western and Indian designers.

Paper II: Product Development Workshop

CO 1: Students will able to design and develop different types of garments for kids.

CO 2: Students will learn developing the designs planned or thought & an implementation to the thinking is given by drafting of different designs.

CO 3: To enable the students to apply the knowledge of design process in making a collection

Paper III: Pattern Making and Grading

CO 1: Students will be able to determine sleeve and adult bodice block with metric system

CO 2: Various design technique and styles are explored in drafting of different types of collars, sleeves, skirts. Contoured pattern, dart manipulation & grading.

CO 3: Students learn and apply techniques of up grading and down grading

CO 4: To understand the importance of pattern development and apply the knowledge of pattern development for creating structural designs

Paper IV: Computer Aided Fashion Designing

CO 1: This course leads to success in education & employment as computer skills are integral to all areas of study. The students will gain knowledge of Adobe Illustrator and Adobe Photoshop in detail.

CO 2: Students will also learn to design fashion details, accessories, figure drawing of male, female and kids on computers.

CO 3: Knowledge of draping simulation on Adobe Photoshop is also perceived.

CO 4: To enable students to handle tools of Adobe Illustrator & Photoshop to create fashion and design Illustration

Paper V: History of Indian Costumes

CO 1: Ability to relate art of historical costumes of men and women during Indus valley civilization, British period, Mauryan, Mughals and traditional costumes of India.

CO 2: Students will appraise knowledge of– Headgears, footwear, handbags, belts, gloves, earrings, necklaces and bangles which will further helps them in designing.

CO 3: To acquaint the students with different types of costumes.

CO 4: To assess opportunity for skill development in designing accessories.

Semester-II

Paper I: Fashion Illustration

CO 1: It will help students illustrate basic block figures- Male and female.

CO 2: Students will make use of various effects, texture and basics of art and design world to foster creativity of the students.

CO 3: To understand the what, why and how of illustration techniques

CO 4: Students will be able interpret Fashion Design concepts and colour theories.

Paper II: Product Development- Workshop

CO 1: Students will able to apply the knowledge of design process in making collection of female wear.

CO 2: Students will learn developing the designs planned or thought & an implementation to the thinking is given by drafting of different designs.

CO 3: To enable the students to apply the knowledge of design process in making a collection of women wear.

Paper III: Pattern Development & Draping

CO 1: Students will understand and create pattern for the collection

CO 2: It provides technical knowledge of draping in developing patterns and designing via draping.

CO 3: The students will learn to develop draped patterns of basic foundation patterns along with variation in collar, sleeve and neckline.

Paper IV: Computer Aided Fashion Designing

CO 1: To enables student to improve working on pattern making and grading software (Rich piece).

CO 2: Student will appraise and assess design projects which help to increase productivity and efficiency of work

CO 3: Student maximize the process of creating technical drawing with the use of software.

Paper V: Fashion Merchandising and Marketing

CO 1: Students will able to explain role & responsibility of Fashion Merchandiser.

CO 2: The students experiment with material availability in market, fashion forecast , upcoming trends and demands of the consumers.

CO 3: Students will perceive, how management plays an important role in every field of fashion.

CO 4: After completion of the project students will be able define and differentiate Indian and global fashion.

Paper VI: Traditional Indian Embroideries

CO 1: To translate beauty of garments with embroidery, painting and other decorative materials

CO 2: To know and choose appropriate fabric suited to the design of the garment with special reference to colour, texture and design of fabric by visit to any textile museum, craft cluster/craft area.

CO 3: This course will help student to understand and create documentation of the selected craft.

Semester-III

Paper I: Product Development- Workshop

CO 1: Students will able to develop different types of male garment.

CO 2: This course helps students to evaluate and incorporate drafting casual, traditional, street and formal wear for male garments.

CO 3: The student will be able to understand process of Design Development • Research • Finalization of Theme • Sourcing • Finalization of designs • Measurements and specification sheets.

CO 4: The student will be able to analyze, evaluate and submit the documentation of the design process.

Paper II: Advance Draping

CO 1: Students will be able to apply the knowledge of draping in developing patterns and designs by different designs.

CO 2: The concept of contouring used in draping to make off shoulder and padded evening gowns will also be taught by which students will be able to modify handling fitting problems in designing.

CO 3: The student will be able to Drape and stitch any designed garment.

Paper III: Computer Aided Fashion Designing

CO 1: Students will be able to elaborate designing through use of Adobe Illustrator &Photoshop and hence create fashion & design illustrations.

CO 2: It allows students for greater modeling and even provides a basis for virtual networking.

CO 3: Helps the student to interpret that in designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

Paper IV: Surface Ornamentation

CO 1: Students will utilize skills to beautify garments with embroidery, printing, crochet, macramé and other decorative materials

CO 2: Students will be able to incorporate the above and develop apparels.

CO 3: To know and choose appropriate fabric suited to the design of the garment with special reference to surface ornamentation.

CO 4: This course will help student to understand and create documentation of the selected craft.

Paper V: Global Costumes

CO 1: To develop knowledge of costumes related to men and women like Babylonian costumes, Persian, Egyptian, Greek, Roman period etc.

CO 2: To determine the use of – Headgears, footwear, handbags, belts, gloves, earrings, necklaces and bangles globally and hence help in planning and designing according to the world's culture.

CO 3: To acquaint the students with different types of costumes.

CO 4: To assess opportunity for skill development in designing accessories.

Paper VI: Seminar-Indian Traditional Textiles

CO 1: The students will gain knowledge about the traditional textiles of India.

CO 2: Students will be able to apply traditional fabrics of different states of India with emphasis on texture, design and colour to any design of their choice.

Semester-IV

Paper I: Portfolio Development

CO 1: Student will learn that Portfolio development is the important part of designing to expose students to real work like situation and improve male, female and kids garments with various boards, specs, cost sheets and garment collection.

CO 2: The student will learn that the art portfolio is an expression of graduating student's creativity, design/ ability, technical expertise, illustration and presentation skills.

CO 3: It explains and evaluates the students inclination towards the particular segment of the industry by identifying the target customers, design requirements and pricing

Paper II: Product Development- Workshop

CO 1: Students will able to construct different types of kid, male or female garments.

CO 2: Students will able to apply the knowledge of design process in making a collection

CO 3: The student will be able to understand process of Design Development • Research • Finalization of Theme • Sourcing • Finalization of designs • Measurements and specification sheets.

CO 4: The student will be able to analyze, evaluate and submit the documentation of the design process.

Paper III: Fashion Merchandising and Retailing

CO 1: Students will able discuss about various retail organizational structure store.

CO 2: Students will learn the role of Customer identification, customer, planning and role of buyer.

CO 3: Students will perceive how management plays an important role in every field of fashion.

CO 4: After completion of the project students will be able define and differentiate Indian and global fashion.

Paper IV: Textile Chemistry

CO 1: Students will able to learn and identify different types of Fibres

CO 2: To interpret different fibres through Microscopic appearance, burning test and solubility test for to know the fabric type.

CO 3: The student will be able to do Fabric Identification on the basis of fabric construction. • Woven • knitted • Non-woven • Fabric analysis on the basis of the thread count

CO 4: The student will be able to do Collection and identification of fabric Construction techniques • Woven • Non- Woven • Knitted and Dyeing of Fabric • Cotton with natural dyes and Direct dyes • Wool with acid dyes • Silk with basic dyes

Paper V: Project Report/Design Project

CO 1: This course helps the students in developing the knowledge and versatility of students and helps them in boosting their career by designing through research.

CO 2: It involves application of learned skills in designing and developing to the major project report.

CO 3: It explains and evaluate the students inclination towards the particular segment of the industry by identifying the target customers, design requirements and pricing

CO 4: The student will be able to analyze, evaluate and submit the documentation of the design process.

Name of Programme: PG Diploma in Garment Construction &Fashion Designing

Programme Specific Outcome

PSO 1: This course helps to develop students with a holistic perspective of product development process right from the design concept.

PSO 2: After completion of this one year course students may get opportunities in area like design houses, export houses, buying houses, handloom sector, retail fashion brand etc.

PSO 3: Students may get offers from both government and private designing companies.

PSO 4: The students of this course will have an in-depth knowledge on apparel and textile designs, production methods etc.

PSO 5: The key principles and skills obtained the course leads to many career opportunities and ensure a successful career in fashion and related industries.

Course Outcomes

Semester –I

Paper I: Pattern Making

CO 1: Students will be able to explain Different aspects of pattern making.

CO 2: Students will able to develop Commercial paper patterns of various designs.

CO 3: Student will be able to relate different aspects of pattern making and grading.

CO 4: Student will be able to develop the concept of pattern making and draping.

Paper II: Fashion Illustration

CO 1: Students will able to define and explain: Figure sketching.

CO 2: Illustrate techniques for various garment details.

CO 3: To understand the what, why and how of illustration techniques

CO 4: Students will be able interpret Fashion Design concepts and colour theories.

Paper III: Garment Designing

CO 1: The students will construct and develop process to work on patterns for various basic deigns.

CO 2: The student will be able to encompasses the development of pattern making skills, fashion details and illustration techniques in designing various outfits.

Paper IV: Garment Construction

CO 1: Students will build pattern making and stitching of skirts, kurti and kalidarkurta and pyjama for ladies garments.

CO 2: With the help of developing Commercial pattern the students will be able to work with industry.

CO 3: Students will able to understand and translate Construction of collars – Flat and rolled, peter-pan collar

CO 4: Student will be able to make use of Sewing machines and other basic sewing techniques used for Garment formation.

Paper V: Fashion Concepts

CO 1: To understand, analyze and apply principles and elements of design with respect to textile garments

CO 2: Students will understand relation between design development and colour importance.

CO 3: Students will be able to interpret different fashion cycles and theories of fashion

CO 4: Students will be able to interpret social and psychological aspects of clothing

Paper VI: Workshop - Surface Ornamentation

CO 1: To enable the students to construct and beautify garments by imparting practical skills in needle craft, embroidery, painting and other decorative materials

CO 2: Students will learn to demonstrate and understand how an art form expresses the culture that produced it.

CO 3: To know and choose appropriate fabric suited to the design of the garment with special reference to surface ornamentation.

CO 4: This course will help student to understand and create documentation of the selected craft.

Paper VII: CAD in Fashion

CO 1: To enables students apply methods of surface ornamentation of fabric using different techniques to produce value added products

CO 2: To formulate knowledge about CorelDraw and photo paint.

CO 3: Students will apply CAD based application in fashion designing

CO 4: Helps the student to interpret that in designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

Semester- II

Paper I: Pattern Making

CO 1: To extend knowledge about different aspects of pattern making, dart manipulation, draping & commercial pattern making techniques.

CO 2: It helps students in Construction of garments on each theme: • Office wear • Evening wear

CO 3: Students will be able to design and construct any innovative garment based on previous paper.

Paper II: Fashion Illustration

CO 1: To enables students to design and create: Figure sketching.

CO 2: Illustrate techniques for various garment details.

CO 3: Students will be able to analyze two dimensional and three dimensional images.

CO 4: To enable students to gain knowledge of figure sketching and drawing.

Paper III: Garment Designing

CO 1: Students will able to develop: Fashion details and designing various outfits, illustration Techniques and fashion design concepts.

CO 2: The student will be able to understand process of Design Development • Research • Finalization of Theme • Sourcing • Finalization of designs • Measurements and specification sheets.

CO 3: The student will be able to analyze, evaluate and submit the documentation of the design process.

Paper IV: Garment Construction

CO 1: Students will be able to learn and apply various construction techniques in apparel designing

CO 2: Students will be able to apply above learnt techniques in garment construction.

CO 3: Students will learn developing the designs planned or thought & an implementation to the thinking is given by drafting of different designs.

CO 4: To enable the students to apply the knowledge of design process in making a collection of women wear.

Paper V: Fundamentals of Textiles

CO 1: To identify and discuss concepts related to the traditional fabrics of different states of India.

CO 2: Students will be able to assess, importance of textiles in fashion designing.

CO 3: Students will be able to define various fabric construction methods.

Paper VI: Workshop - Surface Ornamentation

CO 1: Students will to learn methods of surface ornamentation of fabric to develop value added products.

CO 2: To enable the students to develop practical skills in needle craft and printing.

Paper VII: CAD in Fashion

CO 1: Students will make use of operating knowledge of Corel draw and photo paint.

CO 2: To learn CAD based software and support its application in fashion designing.

PG Department of Mass Communication and Video Production
Name of the Programme: B.Voc. (J&M)(3 year degree course)
Programme Outcomes

PO1: The students are able to work as per the requirement of the industry, i.e., newspaper, radio, television, advertising and Public relations.
PO2: The students can start their own venture and become job providers instead of job seekers. The venture can be started in any field of media.
PO3. As more emphasis on practical is given in B.Voc. like on the job training, expert classes, workshops, seminars, media visits, etc., so the students have more exposure.
PO4: The students can handle still as well as video camera by knowing various angles, shots, etc.
PO5: The students are made aware about industry demands and they are given training accordingly. After completing this course students can find careers as TV and Radio artist, Producer and Director, Reporting Journalists, PR Executives and Event Managers.

Programme Specific Outcomes

PSO1: Students demonstrate knowledge of the field of communication and the meaning and purpose of communication at the individual, group, and societal level.
PSO2: Students will be able to prepare, organize, and deliver an engaging oral and written communication presentation.
PSO3: The students will be able to know technical knowledge about media related software especially newspaper related software including design of newspaper's pages.
PSO4: The students will be able to write a variety of mass media products, including news stories and press releases.
PSO5: The students are able to evaluate mass communication theories and assess their use.
PSO6: The student gain knowledge about media evolution.

Course outcome
Semester I
P-III (Communication: Principles and Practices)
CO 1: The students will be able to understand and apply specific paradigms for critical thinking to mass communication.
CO 2: They will be explained the best methods and strategies for developing a message.
CO 3: They will be able to evaluate mass communication theories and assess their use.
CO 4: Students will be able to make effective oral presentations on a variety of topics.
CO 5: The students will be aware about basic concepts of communication and its role in society.
P-IV (Basics of Computer)
CO 1: They will understand the concept of input/output devices of computers and how it works.
CO 2: The students will be able to use MS office, MS excel, MS word and power point presentation.
CO 3: The will understand the important commands of coral draw, page maker, quark express and Photoshop.
CO 4: They will understand internet and its applications.
CO 5: The students will be able to create banners in coral draw.
P-V (News Reporting-I)
CO 1: The basics of reporting and writing for print media will be introduced to the students.
CO 2: The students will be able to understand the news values and qualities of reporters.
CO 3: Different types of reporting and their importance will be introduced to the students.
CO 4: The students will be trained in event reporting.
P-VI (History of Press)
CO 1: The students will be introduced to the history of print media and its role in freedom movement.
CO 2: The students will be made aware about organs of I&B Ministry and their working.
CO 3: The students will know about the regulatory bodies in Print and Broadcast journalism.
CO 4: The students will remember about the evolution of Indian press and media in Punjab.

Semester II

P-III (Media and the Law)

CO 1: The students will be provided with the basic ideas of all the laws related to media which govern it.

CO 2: The students will be told about their fundamental rights and duties.

CO 3: They will be made aware about the various regulatory bodies of media.

CO 4: The students will be provided with basic understanding on various media laws and ethics.

P-IV (News Reporting-II)

CO 1: The students will be introduced to different categories of articles/features/columns/editorials and reviews.

CO 2: They will be able to understand newspaper organisation structure and editorial department.

CO 3: The students are acquainted with interview taking techniques.

P-V (Editing for newspapers)

CO 1: The students will be acquainted with principles of editing, copy testing, and rewriting the news copy.

CO 2: The students will be able to analyze the headlines of news stories and different types of headlines.

CO 3: The students will learn about the importance of translation in journalism.

CO 4: They will be able to differentiate between newspaper/radio and TV editing.

P-VI (Design and Pagination)

CO 1: The students will be told about traditional methods of printing and the new ones.

CO 2: They will come to know about the principles of page makeup and pagination.

CO 3: The students will be given training about the software of pagination, quark express and illustrator.

CO 4: They will be given practical training about the page makeup of various pages of a newspaper.

Semester III

P-I (Broadcasting in India)

CO 1: The students will be made aware about the evolution of broadcasting in India and its present status.

CO 2: They will learn about AIR, Community Radio, and Internet Radio.

CO 3: They will also learn about broadcasting policy of the government.

CO 4: The students will also be told about the AIR code of broadcasting and its commercial code.

P-II (Business Communication)

CO 1: The students will be able to demonstrate their verbal and non-verbal communication ability through presentations.

CO 2: The students will be able to draft business correspondence with brevity and clarity.

CO 3: The students will be made aware about the various techniques of writing for business pages of a newspaper.

CO 4: They will have an understanding and analysis of budget and share market too.

P-III (Photo Journalism)

CO 1: The students can create imagery which meets the requirements of different media.

CO 2: They are acquainted with different types of photography.

CO 3: The students will know about the various legal and ethical issues in photojournalism.

CO 4: The students will have a sound knowledge of technical aspects of photography.

P-IV (Radio Journalism)

CO 1: The students can produce well-researched, effective and relevant radio shows.

CO 2: They will be able to use all the equipments used in a radio studio.

CO 3: The students will be able to apply technical skills in recording and production skills to produce and present radio interviews, news stories and features.

CO 4: The students will develop professional communication skills as applicable to professional broadcast media including voice and presentation.

P-V (Advertising)

CO 1: The students will be introduced to basics of advertising and its role in society.
CO 2: The students will be trained in basics of ad campaign designing and copy writing.
CO 3: The students will be made aware about the ethics of advertising.
CO 4: They will be provided an understanding of various forms of advertising.

Semester IV

P-I (Media Management)

CO 1: The students will understand about the importance of management in the field of media.
CO 2: The students will remember about the organizational pattern of print media.
CO 3: They will be acquainted with the functions of various departments of a newspaper.

P-II (Public Relations)

CO 1: The students will understand the scope, functioning of Public Relations.
CO 2: The students will be enabled to understand the various PR tools and publics.
CO 3: The role of PR in government and private sectors will be introduced to the students.
CO 4: The students will be able to understand the ethics, law and responsibility of public relations.

P-III (TV Journalism)

CO 1: The student will be able to identify appropriate story content for broadcast news reporting.
CO 2: The students will be able to gather information through a variety of methods using primary and secondary sources.
CO 3: They will be able to consistently meet production deadlines whilst maintaining high journalistic standards.
CO 4: They will be able to produce news reports using industry-appropriate techniques of scripting, shooting and editing.

P-IV (Camera, Lights and Sound)

CO 1: The students will learn all the aspects of camera and lighting.
CO 2: The students will come to know about all the aspects of camera handling, lighting and sound system.
CO 3: The students will be able to make use of camera on their own and produce good quality videos.
CO 4: The students will be given practical training of video editing using software.

P-V (Cyber Journalism)

CO 1: The students will understand about cyber journalism and its advantages/disadvantages.
CO 2: They will be aware about the recent trends of presentation of news in cyber journalism.
CO 3: They will understand latest trends in cyber reporting and editing.
CO 4: They will be made aware about the concept of e-governance and cyber laws.

Semester V

P-I (GK and Current Affairs)

CO 1: The students will be aware about the national and international happenings.
CO 2: They will be able to take part in quizzes, debates and competitive exams.

P-II (Development Communication)

CO 1: The students will be enabled to understand various factors of development.
CO 2: They will be enabled to understand the problems of human development and compare measures to overcome them.
CO 3: They will be introduced to development issues in India and coverage of these issues by media.
CO 4: The idea of social responsibility and awareness of state and central government welfare measures will be inculcated in them.
CO5: The students will be trained on various media programme formats of development communication.

P-III (Film Production)

CO 1: The students will get knowledge about various phases of film production, .i.e., preproduction, production and post production.
CO 2: They will have knowledge about key departments involved in film making.
CO 3: They will be able to compare film distribution, film review and film criticism**.**

P-IV (Event Management)

CO 1: The students will know the importance of team work.

CO 2: They will develop a range of leadership skills and abilities such as motivating others, leading changes and resolving conflict.
CO 3: The qualities of a good manager are instilled in the students as they have to act as good managers.

P-V (Writing for Media)

CO 1: The students will be acquainted with the process of writing for print/radio/TV.
CO 2: They will be able to write good scripts for radio and TV.
CO 3: Students will be able to understand and apply the historical, theoretical, legal and societal contexts for producing and consuming news media for consumers, ranging from local to global publics**.**

Semester VI

P-I (GK and Current Affairs)

CO 1: The students will be aware about the national and international happenings.
CO 2: They will be able to take part in quizzes, debates and competitive exams

P-II (Folk Media)

CO 1: The students will be able to understand the role of folk media in communication.
CO 2: The students will be able to understand the influence of modern media on folk media.
CO 3: They will come to know the present status of folk media.

P-III (Communication Research)

CO 1: The students will demonstrate a sound knowledge of basic research methods.
CO 2: They will demonstrate a working knowledge of the theories and frameworks through which media are analysed and understood.
CO 3: The students will be conducting surveys which will enhance their practical knowledge in research.

P-IV (Publishing)

CO 1: The students will be able to understand the principles of publishing industry.
CO 2: The students will understand the job of central and state publishing groups and NBT.
CO 3: They will understand the working of a publishing house by visiting there.
CO 4: The students will be made aware about basics of DTP fonts, page designing and proof correction.
CO 5: The students will be told about the copyright, plagiarism and royalty.

P-V (Training)

CO 1: The students will get training in any reputed media house for one month. They will be acquainted with the working environment of the media houses.

Name of the Programme: B.A. (with JMC as vocational subject)

Program Outcomes

PO1: Students will be able to understand the effectiveness and need of communication.
PO2: The students will be able to know the practicability of communication models and theories in day to day life.
PO3: The students understand the whole system of Information and Broadcasting in India.
PO4: The students will be able to understand the concept of News and its writing styles.
PO5: The students learn the art of photography.
PO6: The students understand the world of advertising and public relations and its practical approach.

Programme Specific Outcomes

PSO1: Students will be able to make effective oral presentations on a variety of topics in public. The students become sensitive and caring and the ability to understand people of very different backgrounds and upbringing is developed in them.
PSO2: The students analyze the work of various news persons, their qualities, duties and the professional requirements
PSO3: The students gain knowledge about advertising and its different types and mediums and their selection criterion
PSO4: The students develop knowledge about photography and photojournalism.

PSO5: The students will be aware about the technicalities of publishing.

Name of the Programme: B.A. (with JMC as vocational subject) First Year

CO 1: Students will be able to make effective oral presentations on a variety of topics in public.The students become sensitive and caring and the ability to understand people of very different backgrounds and upbringing is developed in them.

CO 2: The students develop the ability to present information clearly, logically and critically.

CO 3: The students understand the basics of news and its elements, news sources and its types.

CO 4: The students can identify the role of the reporter and his/her duties and responsibilities. They are aware about the various duties, responsibilities and qualities of reporter of different beats.

CO5. Understanding the crucial role played by Ministry of I&B and its various organs.

Name of the Programme: B.A. (with JMC as vocational subject) Second Year

CO 1: The students analyze the work of various news persons, their qualities, duties and the professional requirements.

CO 2: The students come to know about the whole process of starting a newspaper venture of how to apply for it and what are the other formalities.

CO 3: Defining various aspects and the nuances involved in newspaper page designing and typography.

CO 4: The students can understand various formats of Radio and TV programs.

CO5. The students develop knowledge about photography and photojournalism.

Name of the Programme: B.A. (with JMC as vocational subject) Third Year

CO 1: The students gain knowledge about advertising and its different types and mediums and their selection criterion.

CO 2: The students learn about ethics of advertising.

CO 3: The students understand the structure and functioning of an advertising agency.

CO 4: The students gain knowledge about Public Relations and its various aspects, PR in Public and Private sector and various tools of PR.

CO5. The students learn about the new technologies in PR, PR institutions and role of PRO with the qualities and duties.

Name of the Programme: MA (JMC)

Program Outcomes

PO1: This programme enhances the skills of the students who wish to work in the field of media.

PO2: The programme provides in-depth knowledge of particular field

PO3: The programme arouses the interest of the students towards research in that particular field.

PO4: This programme provides the candidate with understanding, proficiency and methodology on advanced level in industry, academia, entrepreneurship etc.

Programme Specific Outcomes

PSO1: Students demonstrate knowledge of the field of communication and the meaning and purpose of communication at the individual, group, and societal level.

PSO2: They will demonstrate critical and innovative thinking and display competence in oral, written and visual communication.

PSO3: They will be competent in writing and editing science stories and in production of science related stories.

PSO4: The students will exhibit professional attitudes and behaviours including commitment to healthy work environment, acceptance of differing viewpoints, willingness to work collaboratively and most important, commitment to meeting project due dates.

PSO5: The students will have an inclination towards research as they will be writing their dissertation on a specific topic.

Course outcome

P-I (Introduction to communication)

CO 1: The students will be able to apply specific paradigms for critical thinking to mass communication.

CO 2: They will be able to determine the best methods and strategies for developing a message.

CO 3: They will be able to evaluate mass communication theories and assess their use.

CO 4: Students will be able to make effective oral presentations on a variety of topics.

CO 5: The students will be aware about basic concepts of communication and its role in society.

P-II (History of Print Media in India)

CO 1: The students will be introduced to the history of print media and its role in freedom movement.

CO 2: The students will be made aware about organs of I&B Ministry and their working.

CO 3: The students will know about the regulatory bodies in Print and Broadcast journalism.

CO 4: The students will be told about the evolution of Indian press and media in Punjab.

P-III (Reporting and Editing)

CO 1: The basics of reporting and writing for print media will be introduced to the students.

CO 2: The students will be able to understand the news values and qualities of reporters.

CO 3: Different types of reporting and their importance will be told to the students.

CO 4: The students will be trained in event reporting.

P-IV (Media Law and Ethics)

CO 1: The students will be provided with the basic ideas of all the laws related to media which govern it.

CO 2: The students will be told about their fundamental rights and duties.

CO 3: They will be made aware about the various regulatory bodies of media.

CO 4: The students will be provided with basic understanding on various media laws and ethics

P-V (Advertising)

CO 1: The students will be introduced to basics of advertising and its role in society.

CO 2: The students will be trained in basics of ad campaign designing and copy writing.

CO 3: The students will be made aware about the ethics of advertising.

CO 4: They will be provided an understanding of various forms of advertising.

Semester II

P-I (Development Communication)

CO 1: The students will be enabled to understand various factors of development.

CO 2:They will be enabled to learn the problems of human development and required measures to overcome them.

CO 3: They will be introduced to development issues in India and coverage of these issues by media.

CO 4: The idea of social responsibility and awareness of state and central government welfare measures will be inculcated in them.

CO 5: The students will be trained on various media programme formats of development communication.

P-II (Media Management)

CO 1: The students will come to know about the importance of management in the field of media.

CO 2: The students will be told about the organisational pattern of print media.

CO 3: They will be acquainted with the functions of various departments of a newspaper.

P-III (Current Affairs)

CO 1: The students will be aware about the national and international happenings.

CO 2: They will be able to take part in quizzes, debates and competitive exams

P-IV (Communication Research-I)

CO 1: The students will demonstrate a sound knowledge of basic research methods.

CO 2: They will demonstrate a working knowledge of the theories and frameworks through which media are analysed and understood.

CO 3: The students will be conducting surveys which will enhance their practical knowledge in research.

P-V (Radio and TV Programming)

CO 1: The students will be able to use all the equipments of a radio and TV studio.
CO 2: The students will be able to write scripts for different formats of radio and TV.
CO 3: They will be able to use camera and produce TV programs of any format.

Semester III

P-I (Mass Communication Research-II)

CO 1: The students will demonstrate a sound knowledge of basic research methods.
CO 2: They will demonstrate a working knowledge of the theories and frameworks through which media are analysed and understood.
CO 3: The students will be conducting surveys which will enhance their practical knowledge in research.

P-II (New Media Technology)

CO 1: The students will come to know about the concept of new media in mass communication.
CO 2: They will be made aware about cyber journalism.
CO 3: They will be acquainted with working of online newspapers.

P-III (Public Relation and Corporate Communication)

CO 1: The students will be made to understand the scope, functioning of Public Relations.
CO 2: The students will be enabled to understand the various PR tools and publics.
CO 3: The role of PR in government and private sectors will be introduced to the students.
CO 4: The students will be able to understand the ethics, law and responsibility of PRO.
CO 5: They come to know about corporate communication and privatisation of PR.

P-IV (Science Journalism)

CO 1: The students are made aware about the importance of science in the field of journalism.
CO 2:They come to know about health communication, government policies of health sectors and welfare measures of the government.
CO 3: They are also familiarized with agriculture communication, use of pesticides and fertilizers on crops and their impact on our health.
CO 4: The students are given necessary skills to interview a scientist.

P-V (Photography)

CO 1: The students can create imagery which meets the requirements of different media.
CO 2: They are acquainted with different types of photography.
CO 3: The students will know about the various legal and ethical issues in photojournalism.
CO 4: The students will have a sound knowledge of technical aspects of photography.

Semester IV

P-I (International Communication)

CO 1: The students will be made aware about political, cultural and social dimensions of communication.
CO 2: They will be made aware about the UN's Universal declaration of human rights.
CO 3: They will be made aware about issues in international communication.

P-II (Human Rights)

CO 1: The students will come to know about the concept of human rights and its connection with media.
CO 2: The students will be made aware about the state and national commissions on human rights.

P-III (Film Studies)

CO 1: The students will have knowledge about historical background of world cinema and Indian cinema.
CO 2: The students will be introduced to the pioneers of Indian cinema.

P-IV (Intercultural Communication)

CO 1: The students will be introduced to the concept of intercultural communication by telling them about various cultures of the world and importance of communication in uniting them.
CO 2: They will come to know about the efforts of UN and other institutions in the promotion on intercultural communication.

CO 3: They students can have inclination towards research in the field of intercultural communication.

P-V (Dissertation)

CO 1: This dissertation can be a basis of Ph.D. for the student.

CO 2: The students will be motivated to do research based dissertation.

Post Graduate Department of Cosmetology
Name of Programme: B.Voc. (Cosmetology and Wellness)

Programme Outcomes

PO 1: Students will be able to practically understand and apply the knowledge related to the requirements of industry.
PO 2: To provide a judicious mix of professional skills and suitable general education component.
PO 3: To provide flexibility to the students to serve the industry by having exit points at different levels.
PO 4: To provide an opportunity to the students to get on the job training which help them to enhance their professional skills.

Programme Specific Outcomes

PSO1: Develop competent with professional skills, knowledge abilities & attitude to become entrepreneur, provide opportunities and develop students in terms of social, economic and environment sensitive as responsible professionals.
PSO 2: Gain high level skills and became a trusted beauty expert after passing this course. This course will further advance student's beauty therapy skills and prepare for management positions in salons and spas. Students will be ready to work in house or as an independent freelance professional. Students will become professional in various streams like nail care, makeup artist, hair colorist and hair dresser etc.
PSO 3: Students will know the theory and science behind treatments and equipments with knowledge of the most up-to-date beauty techniques. The course includes a practical placement in a saloon of students can gain confidence and face to face experience with clients.
PSO 4: Describe terminology and concepts within the cosmetology field.
PSO 5: Analyze customer needs and communicate solutions by applying theories of cosmetology to real-life customer experiences.

Course Outcomes

Semester-I

Paper: IV Basic Concept of Skin

CO 1: To factilitate the students to demonstrate the basic concept, structure & growth and reproduction of cell in brief.
CO 2: Students will be able to understand the structure and functions of skin.
CO 3: The students will be able to explain the types and common skin problems in detail.
CO 4: Students will be able to analyse the skin type and problems.
CO 5: The students will be able to explain the diseases & disorders of sweat and sebaceous glands.
CO 6: Students will get to know about the treatments of skin.

Paper: V Basic Skin Care

CO 1: Students will be able to learn to analyse the skin.
CO 2: Students will be able to understand the concept of Basic facial.
CO 3: Students will learn the basic manipulation and massage techniques, benefits of massage, safety precautions.
CO 4: Students will learn the Basic knowledge of facial muscles and motor points.
CO 5: The students will be able to identify the different skin types with skin analyzer.
CO 6: Students will be able to identify which skin disorders may be handled in the salon and which should be referred to a physician and skin treatments with home remedies.

Paper: VI Epilation and Depilation

CO 1: The students will be able to explain Epilation and Depilation.
CO 2: The students will be able to catalogue proper method of threading, waxing, tweezing and depilatories.
CO 3: The students will be able to examine skin bleach for lightened the facial hair & technique of doing shaving.
CO 4: The students will be able to understand the technique of Electrolysis and Laser hair removal.

CO 5: The students will be able to enlist the benefits and safety precaution of epilation and depilation.
CO 6: Students will be able to draw out a comparison between epilation and depilation.

Paper: VII Manicure and Pedicure

CO 1: The students will be able to draw the basic structure of nail.
CO 2: The students will be able to demonstrate the Product knowledge of manicure and pedicure.
CO 3: Students will be able to explain the basic knowledge of proper techniques of manicure and pedicure with pressure points.
CO 4: Students will be able to enlist the benefits of manicure and pedicure.
CO 5: The students will come to know about various infection control methods & safety precautions.
CO 6: Students will be able to explain the nail disorders and diseases.

Paper: VIII Sanitation and Safety Precautions

CO 1: Students will be able to relate sanitation and cosmetology.
CO 2: They will come to know about the definitions pertaining to sanitation & method of sanitation.
CO 3: Students will be able to explain the sanitation rules.
CO 4: Students will be able to understand Public Sanitation.
CO 5: The students will be able to explain the types of sanitizers, usages & safety precaution.
CO 6: The students will be able to use different sanitizing agents.

Semester-II

Paper: IV Basic Concept of Hair

CO 1: The students will be able to draw basic structure & division of hair.
CO 2: The students will be able to explain the forms and types of hair.
CO 3: The students will come to know about various characteristics of hair.
CO 4: The students will be able to outline the growth and regeneration of hair.
CO 5: The students will be able to enlist the common disorders of hair and scalp infectious & non infectious diseases.
CO 6: The students will be able to analyze the type of hair.

Paper: IV Hair Care

CO 1: The students will be able to elaborate brushing and combing,
CO 2: The students will be able to enlist do oil treatments.
CO 3: The students will be able to catalog basic massage technique (manual, vibratory).
CO 4: The students will be able to demonstrate the application of heat & electrotherapy.
CO 5: The students will come to know about shampooing and conditioning.
CO 6: The students will be able to enlist the benefits & precautions of massage.

Paper: V Hair Styling and Dressing.

CO 1: The students will be able to enlist the elements and basic principle of design.
CO 2: The students will be able to demonstrate the Hair shaping instruments.
CO 3: The students will come to know about the section the hair before haircut.
CO 4: The students will be able to compare line, elevation & angle system in haircuts.
CO 5: The students will be able to demonstrate the Technique of Basic haircuts.
CO 6: The students will be able to explain the Procedure of Thermal hair styling.

Paper: VI Hair Coloring and Lightening

CO 1: The students will be able to enlist the basic principles of color.
CO 2: The students will be able to compile the classifications of hair color.
CO 3: The students will be able to select the color formula.
CO 3: The students will be able to demonstrate the preparation of hair coloring.
CO 4: The students will be able to explain the process of hair coloring.
CO 4: The students will be able to catalog the use of lighteners and its effects .
CO 5: The students will be to enlist the safety precautions while doing hair coloring .

Paper: VII Color Correction

CO 1: The students will be able to enlist the basic principles of color.
CO 2: The students will be able to elaborate skin or under tone.
CO 1: The students will be able to select the color according to skin and hair.

CO 2: The students will be able to enlist hair pigments.
CO 3: The students will be able to do color toning.
CO 4: The students will be able to examine depth of color.
CO 5: The students will be able to explain different techniques of color correction and safety precaution while doing hair color.

Semester III

Paper: I Basic Make up

CO 1: The students will be able to analyse make up.
CO 2: The students will be able to enlist the Basic Principles of color.
CO 3: The students will be able to choose the correct color.
CO 4: The students will be able to determine Facial Balance.
CO 5: The students will be able to analyse the products According to skin.
CO 6: The students will be able to demonstrate of Basic Make up.

Paper: II Camouflage Make up

CO 1: The students will be able to elaborate Camouflage Make up.
CO 2: The students will be able to elaborate color Wheel.
CO 3: The students will be able to catalog concealing.
CO 4: The students will be able to classify the concealers.
CO 5: The students will be able to enlist use of Camouflage.
CO 6: The students will be able to show demonstration of Camouflage make up.

Paper: III Bridal Make up

CO 1: The students will be able to execute Bridal Make up.
CO 2: The students will be able to analyze the skin before make up.
CO 3: The students will be able to The students will be able to identify the facial shapes .
CO 4: The students will be able to select the color tone according to skin .
CO 5: The students will be able to classify the Base used in Make up .
CO 6: The students will be able to demonstrate of Bridal Make up.
CO 7: The students will be able to know the methodology of draping the client.

Paper: IV Theatre Make up

CO 1: The students will be able to execute Theatre Make up.
CO 2: The students will be able to analyze the skin before make up.
CO 3: The students will be able to identify the facial shapes.
CO 4: The students will be able to is stage Make up.
CO 5: The students will be able to demonstrate of Stage Make up for different characters.
CO 6: The students will be able to compile the process of Screen Make up.

Paper: V Photographic Make up

CO 1: The students will be able to elaborate Photographic Make up.
CO 2: The students will be able to analyze the skin before make up.
CO 3: The students will be able to identify the facial shapes.
CO 4: The students will be able to create a perfect base.
CO 5: The students will be able to demonstrate Artistry in different Photogenic make up.

Semester IV

Paper: II Bacterioplogy

CO 1: The students will be able to catalog bacteria and enlist the classification of bacteria.
CO 2: The students will be able to compile the growth and reproduction of bacteria.
CO 3: The students will be able to compile Infection, Immunity, Disease and Virus.
CO 4: The students will be able to interpret details of Sterlization and Sanitation in field of Cosmetology.
CO 5: The students will be able to compile the different method of sterilization.
CO 6: The students will be able to explain the chemical Disinfectants and Antiseptics .
CO 7: The students will be able to compile the General Sanitary suggestions.

Paper: III SPA

CO 1: The students will be able to elaborate SPA.
CO 2: The students will be able to interpret the ambience is required for SPA.
CO 3: The students will be able to identify the products for SPA.
CO 4: The students will be able to explain the basic technique of SPA.
CO 5: The students will be able to execute Mani Pedi SPA.
CO 6: The students will be able to demonstrate of Hair and Body SPA.

Paper: IV Facial and Electrotherapy

CO 1: The students will be able to elaborate Facial and electrotherapy.
CO 2: The students will be able to analyze the skin.
CO 3: The students will be able to identify the products.
CO 4: The students will be able to demonstrate the basic technique of facial.
CO 5: The students will be able to demonstrate of skin treatments with electrotherapy.
CO 6: The students will be able to enlist the benefits and safety measures.

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Cosmetology

Semester I

Paper: Theory/Practical

CO 1: Facilitate the shaping of new minds of the students by giving the appropriate knowledge of Cosmetology.
CO 2: The students will be able to elaborate skin, personal grooming and massage.
CO 3: This course provides an opportunity to the students to improve their Practical Skills through The students will be able to demonstrate, Hands on practice.
CO 4: The students will be able to learn the basic etiquettes.
CO 5: The students will be able to demonstrate preparation of facial mask pack and steps for applying the pack as per requirement of skin.
C0 6: The students will be able to analyse the type of skin.

Semester-II

Paper: Theory/Practical

CO 1: The students will be able to enlist nail disorders, diseases and basic structure of nail.
CO 2: The students will be able to examine the product knowledge of manicure and pedicure.
CO 3: The students will be able to demonstrate proper techniques of manicure and pedicure with pressure points.
CO 4: The students will be able to enlist the benefits of manicure and pedicure.
CO 5: The students will be able to enlist safety measures that must be followed while doing Manicure and Pedicure.
CO 6: The students will be able to compare epilation and depilation method.

Semester-III

Paper: Theory/Practical

CO 1: The students will be able to describe the terminology and concepts used in the cosmetology field.
CO 2: The students will be able to analyse customer needs and communicate solutions by applying theories of cosmetology to real-life customer experiences.
CO3: The students will be able to apply business concepts and professional behaviour to build a sustainable clientele in the field Cosmetology.
CO 4: The students will be able to demonstrate basic cosmetology practical skills.
CO 5: The students will be able to draw and elaborate structure and division , purpose, forms and composition of hair.
CO 6: The students will be able to enlist the types and disorders of hair.

Semester-IV

Paper: Theory/Practical

CO 1: The students will be able to execute hair care services for all types of hair including hair analysis, hairstyling and hair treatments.

CO 2: The students will be able to serve basic hair care services including hair massage, hair Spa and superfluous hair removal.

CO 3: The students will be able to demonstrate customer service skills, self-growth and personal development.

CO 4: The students will be able to demonstrate the thermal hair styling.

CO 5: The course will empower students by the knowledge of good and prescribed diet for healthy hair.

Semester-V

Paper: Theory/Practical

CO 1: The students will be able to elaborate salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salon business.

CO 2: The students will be able to maintain public hygiene and special sanitation procedures used for the protection of the client and the operator.

CO 3: The students will be able to demonstrate the services for all types of hair including hair analysis, hair cutting, hairstyling, hair colouring and lightening, permanent waving and chemical relaxing.

CO 4: The students will be able to serve/execute basic skin services including skin analysis and makeup application.

Semester-VI

Paper: Theory/Practical

CO 1: The students will understand the business aspects of managing a salon. This includes aspects such as human resources, marketing, and financial components.

CO 2: The students will be able to move into management positions within the salon or may open or run their own business using the information taught in these programs.

CO3: The students will be able to elaborate the importance of health and safety procedures in the salon.

CO 4*:* The students will be able to enlist the importance of health and safety in the salon.

CO5: The students will be able to make the workplace safe for customers, suppliers and the general public; prevent risks to health; appropriate use and storage of materials; appropriate use maintenance and storage of equipment; indicate The students will be able to do it in an emergency situation.

CO 6*:* The students will be able to to manage the difficulties like*:* untrained staff, tools that are not properly sanitized, dirty basins and towels, inappropriate use and storage of chemicals, inappropriate use and storage of equipment, lack of cleanliness, poor ventilation.

Name of Programme: Diploma in Cosmetology

Programme Specific Outcomes

PSO 1: Students will become able to perform hair care services for all types of hair including hair analysis, hair cutting, hairstyling, hair colouring and lightening, permanent waving and chemical relaxing.

PSO 2: They will be able to provide natural nail services including manicuring and pedicuring.

PSO3: Perform basic skin care services including skin analysis, facials, makeup application and superfluous hair removal.

PSO 4: Learn management of salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salon business.

PSO 5: To have the knowledge of public hygiene and special sanitation procedures used for the protection of the client and the operator.

Course Outcomes

Semester-1

Paper: I

CO 1: The students will be able to enlist aims and importance of cosmetology.

CO 2: The students will be able to catalog visual poise like care of yourself like teeth, ears, feet, ears, feet, removing body hair, nails, hand care and care of clothing.

CO 3: The students will be able to draw the structure and functions of skin.

CO 4: The students will be able to explain the types and common skin problems in detail.

CO 5: The students will be able to analyse the skin type and problems.

CO 6: The students will be able to explain the diseases & disorders of sweat and sebaceous glands.

Paper: II

CO 1: The students will be able to elaborate upon Yoga, Elements of an on-going yoga practice, Concepts and basics of warm up and cool down, Safety principles in a yoga practice.

CO 2: The students will be able to demonstrate the yoga asanas for example Shav, Gomukh, Vajar, Chakra and many more.

CO 3: The students will be able to draw basic structure & division of hair.

CO 4: The students will be able to explain the forms and types of hair.

CO 5: The students will be able to enlist the characteristics of hair.

CO 6: The students will be able to explain the growth and regeneration of hair.

Semester-II

Paper: I

CO 1: The students will be able to draw and analyse structure of nail

CO 2: The students will be able to enlist disorders and disease of nail.

CO3: The students will be able to demonstrate pedicure and manicure, nail spa and nail art.

CO3: The students will be able to take care of eyes, exercise of eyes, eyebrow shaping and treatment of eyes with home remedies.

CO4: The students will be able to do make-up for occasions like bridal, party, engagement with proper contouring of eyes, nose, lips, cheeks and jaw line.

CO5: The students will be able to demonstrate dupatta setting and saree draping.

Paper-II

CO 1: The students will be able to assess the role of nutrition such as protein, carbohydrates, fats, minerals vitamin etc. and basic five food groups.

CO 2: The students will be able to analyse the effect of color would have on the structure and The students will be able to different color and looks work on the hair like global color, streaking, henna and understand the proper method of mixing and applying.

CO 3: The students will be able to execute the basic techniques of massage and treatments of different hair problems with the help natural ingredients.

CO 4: The students will be able to do and elaborate the hair treatments after the use of chemicals like hair spa, deep conditioning and polishing.

CO 5: The students will be able to demonstrate the advance techniques on hair like rebonding and perming.

CO 6: The students will be able to elaborate salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salon business, planning and layout of salon.

Name of Programme: PG Diploma in Cosmetology

Programme Specific Outcomes

PSO 1: Students will able to analyse customer needs and communicate solutions by applying theories of cosmetology to real life customers.

PSO 2: Apply business concepts and professional behaviour to build a sustainable clientele

PSO 3: Learn the basic structure, division of hair

PSO 4: The students will be able to identify which skin disorders may be handled in the salon and which should be referred to a physician and skin treatments with home remedies.
PSO 5: Learn the basic manipulation and massage techniques, benefits of massage and precautions.
PSO 6: Learn the basic concept about structure, growth and reproduction of cell.
PSO 7: Understand the function and operation of basic facial machines.
PSO 8: Assess skin type and prescribe a skin care regimen.

Course Outcomes

Semester-I

Paper: I Personality Development

CO 1: The students will be able to use the color wheel to assemble the outfits. Outfits according to figure, physique, complexion, occupation and weather.
CO 2: The students will be able to enlist the aims and importance of cosmetology.
CO 3: The students will be able to elaborate the visual poise like basic & corrective stance, basic hand positions, correct sitting positions, getting in & out of car, handling coats, shawls, handbags etc.
CO 4: To develop students' ability to communicate about familiar topics and in simple and routine tasks, and participate in classroom conversations. Familiarize students with informal presentation skills and structures.
CO 5: The students will be able to understand and elaborate personal hygiene is important as well as ways to maintain personal hygiene. Students then finish up by making a personal hygiene plan & type, growth and reproduction of bacteria.

Paper: II External Skin Science

CO 1:The students will be able to explain the basic knowledge of structure of cells, growth and reproduction of cells in brief.
CO 2: The students will be able to explain the anatomy, function, types and different problems of skin.
CO 3: The students will be able to analyse and elaborate facial muscles, kinds of nerves of face and neck.
CO 4: The students will be able to understand basic theory of massage, its benefits and precautions
CO 5: The students will be able to demonstrate facial and body massage.
CO 5: The students will be able to explain the facial therapies with pressure points
CO 6: The students will be able to demonstrate herbal treatments of skin.

Paper: III Hair and scalp

CO 1: The students will be able to explain the hair structure, division and different types of hair.
CO 2: The students will be able to explain the structure connected with hair follicle like dermal papilla, outer & inner roots sheath, bulb, dermal cord, connective tissues & arrector pilli muscles.
CO 3: The students will be able to compile the growth and Replacement of hair like hair cycle, analysis and hair pigments.
CO 4: The students will be able to enlist hair disorders such as infectious and non-infectious disorder and their reasons.
CO 5: The students will be able to compile the care and treatments of scalp with The students will be able to demonstrate of different electrical equipment.
CO 6: The students will be able to analyze the type of hair.

Semester II

Paper: I Yoga and Salon Management

CO 1: The course will impart knowledge of balance, flexibility, kinesthetic awareness, alignment, breath control, strength.
CO 2: The students will be able to explain the relaxation techniques, experience the relationship between mind, body and spirit.
CO 3: The students will be able to explain the yoga, elements of an on-going yoga practice, Concepts and basics of warm up and cool down, Safety principles in a yoga practice.
CO 4: The students will be able to analyse salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salon business.

CO 5: The students will be able to interpret the procedure of decontamination control, public hygiene and special sanitation procedures used for the protection of the client and the operator, Students will learn the professional ethics and also get the awareness of qualities and duties of salon manager/ operator.

Paper-II Makeup and Cosmetics

CO 1: The students will be able to assess the chemical composition of cosmetic products and recommend appropriate cosmetic treatments.

CO 2: The students will be able to differentiate ingredients found in cosmetic products and The students will be able to identify their functions, effects and apply various make-up equipment and techniques used for professional application.

CO 3: The students will be able to create a variety of make-up special effects to portray a theme or cater to the requirements of events and perform Basic makeup, Formal makeup, corrective makeup and bridal makeup.

CO 4: The students will be able to explain the structure, functions, disorder and diseases of nails in brief.

CO 5: The students will be able to demonstrate the step by step manicure and pedicure with their effects.

Paper-III Chemical Structure of Hair and Colours

CO 1: The students will be able to explain the chemical composition, hair bonds, chemical reaction in layers of hair, acids, and alkalis in hair, action of shampoo and types of shampoo.

CO 2: The students will be able to enlist the physical and chemical classifications such as shampoo, hair conditioners, rinses, hair gels, lotions, sprays, tonics and oils.

CO 3: The students will be able to explain the basic principles of color, color correction, types of color, client consultation, mixing techniques and depth and tones of color etc.

CO 4: The students will be able to describe the hair texturing like cutting tools, cutting angle system, cutting lines & texturing and different techniques and haircuts.

CO 5: The students will be able to demonstrate Chemical jobs like Permanent Waving and Rebonding techniques.

Name of Programme: M.Voc Cosmetology & Wellness

Programme Specific Outcomes

PSO 1: Students will able to analyse customer needs and communicate solutions by applying theories of cosmetology to real life customers.

PSO 2: Apply business concepts and professional behaviour to build a sustainable clientele

PSO 3: Learn the basic structure, division of hair

PSO 4: The students will be able to identify which skin disorders may be handled in the salon and which should be referred to a physician and skin treatments with home remedies.

PSO 5: Learn the basic manipulation and massage techniques, benefits of massage and precautions.

PSO 6: Learn the basic concept about structure, growth and reproduction of cell.

PSO 7: Understand the function and operation of basic facial machines.

Course Outcomes

Semester-I

Paper: I Human Physiology

CO 1: The students will be able to explain the basic knowledge of nutrients.

CO 2: The students will be able to compile the balanced diet with food groups.

CO 3: The students will be able to understand the importance of meal planning.

CO 4: The students will be able to explain the Diet for healthy body.

CO5: The students will be able to elaboratethe Digestive system, Excretory system ,Circulatory system, Lymphatic system &Respiratory system.

CO 6: The students will be able to explain the muscles of face, head and neck.

Paper: II Skin Science

CO 1: The students will be able to explain the basic knowledge of structure of cells, growth and reproduction of cells in brief.

CO 2: The students will be able to explain the anatomy, function, types and different problems of skin.

CO 3: The students will be able to enlist facial muscles, kinds of nerves of face and neck.

CO 4: The students will be able to understand and analyse basic theory of massage, its benefits and precautions

CO 5: The students will be able to demonstrate facial and body massage.

CO 5: The students will be able to explain the facial therapies with pressure points

CO 6: The students will be able to demonstrate herbal treatments of skin

Paper: III Skin Manipulation and Care

CO 1: The students will be able to explain the procedure of analysis of the skin.

CO 2: The students will be able to demonstrate Basic facial.

CO 3: The students will be able to explain the basic manipulation and massage techniques, benefits of massage, safety precautions.

CO 4: The students will be able to explain the Basic knowledge of facial muscles and motor points.

CO 5: The students will be able to identify the different skin types with skin analyzer.

CO 6: The students will be able to identify which skin disorders may be handled in the salon and which should be referred to a physician and skin treatments with home remedies.

Paper: IV Bacteriology & Infection Control

CO 1: The students will be able to catalog bacteria and classification of bacteria.

CO 2: The students will be able to compile the growth and reproduction of bacteria.

CO 3: The students will be able to understand Infection, Immunity, Disease and Virus.

CO 4: The students will be able to know the importance of Sterlization and Sanitation in field of Cosmetology.

CO5: The students will be able to compile the different method of sterilization.

CO 6: The students will be able to explain the chemical Disinfectants and Antiseptics.

Semester-II

Paper: V Hair Science

CO1: The students will be able to explain the hair structure, division and different types of hair.

CO 2: The students will be able to explain the structure connected with hair follicle like dermal papilla, outer & inner roots sheath, bulb, dermal cord, connective tissues & arrector pilli muscles.

CO 3: The students will be able to compile the growth and Replacement of hair like hair cycle, analysis and hair pigments.

CO 4: The students will be able to elaborate hair disorders such as infectious and non-infectious disorder and their reasons.

CO 5: The students will be able to compile the care and treatments of scalp with demonstration of different electrical equipments.

CO 6: The students will be able to analyze the type of hair.

Paper: VI Scalp and Hair

CO1: The students will be able to explain shampoo and enlist types of shampoos.

CO2: The students will be able to explain the procedure of shampoo.

CO3: The students will be able to shampoo clean the hair.

CO4: The students will be able to explain Hair rinses and Conditioners.

CO5: The students will be able to explain the procedure of deep conditioning.

CO 5: The students will be able to compile the care and treatments of scalp with demonstration of different electrical equipment.

CO 6: The students will be able to analyze the type of hair.

Paper: VII Hair Chemistry

CO1: The students will be able to explain Hair Chemistry.

CO2: The students will be able to elaborate Organic and Inorganic Chemistry.

CO3: The students will be able to compile the Chemical structure of hair.

CO4: The students will be able to explain the bonds form hair.
CO5: The students will be able to explain acids and alkalis.
CO6: The students will be able to classify of Cosmetics at Physical and Chemical level.

Paper: VIII Hair Shaping and Design

CO1: The students will be able to elaborate the Elements of hair design.
CO2: The students will be able to elaborate laborate the Principles of Hair design.
CO3: The students will be able to hold hair shaping instruments.
CO4: The students will be able to demonstrate the different techniques of Braiding and Buns.
CO5: The students will be able to use Wigs,Stuffings and Hair pieces.
CO6: The students will be able to demonstrate about Hair Cuts.

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Programme Outcomes (POs)

COURSE OUTCOMES (COs)

HANS RAJ MAHILA MAHA VIDYALAYA

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Programme Outcomes

B.A. (Bachelor of Arts)

PO 1 Effective Communication: The programme makes the students familiar with nuances and usage of language in formal and informal expressions of life.
PO 2 Effective Citizenship: The students get knowledge in fields of social sciences, performing arts, visual arts and literature and become responsible citizens of the society.
PO 3 Social Interaction: The students are acquainted with the social, political, economic, historical and psychological facades pertaining to different situations.
PO 4 Self directed Learning: The programme gives liberty to the students to choose their area of interest out of the options available and select the post-graduate programme accordingly.

B.Sc. (Bachelor of Science)

PO 1 Critical Thinking: The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.
PO 2 Lifelong learning: Enable the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.
PO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.
PO 4 Creative thinking: They become capable of thinking creatively, to propose innovative ideas in clarifying facts and figures and providing new solution to the problems.
PO 5 Interdisciplinary approach : To give them knowledge about developments in any science subject and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
PO 6 Scientific aptitude :The programme targets to develop scientific aptitude among the students to make them open- minded, critical and curious in order to deal with all aspects related to life.
PO 7 Self reliant: To make them capable of applying their acquired knowledge and able to work on their own hence make themselves self-reliant and self-sufficient.

B.Com. (Bachelor of Commerce)

PO1 Comprehensive Financial aspects: To enable the students to have comprehensive knowledge of finance, accounting, taxation and business laws.
PO2 Entrepreneurship: To equip the students with professional, inter personal, presentation and entrepreneurial skills.
PO3 Analytical Thinking: To enhance the analytical and decision making skills of the students which can help them to prepare for various competitive exams.
PO4 Modern tool usage: To develop the accounting skill amongst the students in the computerized environment.
PO5 Leadership: Exercising professional skills, values, team spirit, and high leadership and to accept the challenges in the industry and academics.

M.A. (Master of Arts)

PO1 General Proficiency: The Masters of Arts programme provides the candidates with understanding, general proficiency, and methodical abilities on an advanced level required in industry, consultancy, education, or public administration.

PO2 Research aptitude: The students will acquire knowledge and understanding in their specific field of study as well as into current research and development work.

PO3 Complex problem handling: They will be able to demonstrate the ability to identify issues critically and to plan the assigned tasks accordingly.

PO4 Life long learning: The programme provides in-depth knowledge of particular subject and arouses interest of the students towards research in that particular field.

PO5 Social interaction: The programme (including English, Punjabi, Hindi and Political Science) combines theoretical teaching with logical tools and theories, through group work, seminars and workshops. This includes exercises in which participants co-develop and verify practical solutions to real-world issues.

B.Voc. (Bachelor of Vocation)

PO1 Industry-Academia gap bridging: Students will be able to practically understand and apply the knowledge related to the requirements of industry.

PO2 Professional competency: To provide a judicious mix of professional skills and suitable general education component.

PO3 Academic flexbility: To provide flexibility to the students to serve the industry by having exit points at different levels.

PO4 National Employability: To provide an opportunity to the students to get on the job training which help them to enhance their professional skills

PO5 Vertical mobility: To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce. To provide vertical mobility to students coming out of 10+2 with vocational subjects.

B.F.A- Bachelor of Fine Arts

PO1 Art knowledge: The students acquire knowledge in the field of fine arts which make them sensitive and sensible enough.

PO2 Artistic thinking: The BFA graduates are acquainted with the artistic traditions and thinking.

PO3 Effective communication: Programme familiarizes them with the nuances of fine arts which make them effective communicator through brush and colours.

PO4 Practical learning: The programme enhances the confidence of the graduates through carefully chosen curriculum with emphasis on practical learning, activities and close interaction with teachers and fellow students.

PO5 Human values: The programme enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.

PO6 Creative learning: The students are given an exposure to creative environment which sparks their thoughts, process and help to think of the solutions of various issues in life to make this world a better place to live.

PO7 Modern tool usage: Use of ICT helps in providing experiential learning which deeply embeds and has long lasting impact.

PO8 Effective citizenship: The programme lays the foundation to become a responsible citizen and meaningfully contribute to society.

B.B.A. (Bachelor of Business Administration)

PO1 Business acumen: Apply knowledge of management theories and practices to solve business problems with the help of analytical and critical thinking abilities.
PO2 Taxation system: To have thorough understanding of business and income tax laws in the dynamic business environment.
PO3 Entreprenership: To inculcate entrepreneurial skills among the students.
PO4 Accouting skills: Developing accounting skills in the computerized environment
PO5 Managerial skills: Ability to understand the different areas of management such as marketing management, human resource management, production operations management.

M.Com. (Master of Commerce)
PO1 Comprehensive accounting: To enable the students to have comprehensive knowledge of contemporary issues in accounting, international accounting, international financial, management, retail management, banking and insurance, tax planning, business environment.
PO2 Capital marketing: To enable the students to have understanding of the basic concepts in capital market, different investment alternatives and to do security analysis and portfolio management.
PO3 Analytical thinking: Enhance the analytical skills of the students and substantiate the decision making process through modelling and data analysis in the field of research.
PO4 Career progression: To enable the students to prepare for competitive exams such as UGC.

B.Sc.IT (Bachelor of Information Technology)/ B.C.A. (Bachelor of Computer application)

PO1 Modern tool usage: This programme inculcates the basic understanding of Computer and Computer Programming .Languages in students so that they can have complete knowledge about the system and its inner working details.
PO2 Computer Knowledge: This programme aware the students about the high use of Computers in various fields and increasing number of Jobs in this field.
PO3 Computing environment: This programme make the students well versed with the computing environment and the various concepts, topics and subjects related to this field.
PO4 Design and development of solutions: This Programme enables the students to have the complete understanding of various branches of Computer and Technology such as Computer Graphics, Operating Systems and Data Structures,
PO5 Problem solving and analysis: This programme will inculcate the ability of identify, analyze and synthesize scholarly literature relating to the field of computer science and IT.
PO6 Design of Solutions: The effectiveness of this programme is to ensure that the students understand the use of software development tools, IDEs, various software system and modern computing platforms.

DCA (Diploma in Computer Applications)
PO1 Introductory knowledge of computer:This programme enables the students to have an introductory level of knowledge in computer field so that they can pursue higher studies after higher secondary classes.
PO2 Application software understanding: This one year programme will provide the basic insights of various application software which are being used in various fields, offices and companies.

PO3 Hardware and software knowledge: This programme enables the students to understand the basic working of computer systems and learn the basic concepts of system so that they can have basic general knowledge of system.

PO4 Job oriented output: This programme provides beneficial outcomes to the students for preparing for competitive exams and grabs a job in educational and governmental institutions.

Bachelor of Design (BD)/ Bachelor of Design-Multimedia (BD-MM)

PO1 Practical design knowledge: The programme endeavours to provide the learners with excellence in theoretical orientation combined with practical experience, over the tenure of four years.

PO2 Creativity imbibtion: To enhance communication, presentation and creative skills of the students.

PO3 Media Knowledge: Students become capable to exhibit knowledge of print and electronic media.

PO4 Software application: To make the students learn and become specialized in various 3D visual representation tools like Autodesk MAYA, 3Ds Max etc.

PO5 Design/Development of Solution: This course produces various employment opportunities as Graphics Designer, 2D/ 3D Animator, Web Designer, Video Editor, Professional Photographer, VFX artist, Cinematographer, Creative Designer, Art Director, Illustrator or Cartoonist, Visualizer, Teaching Profession, Character Designers, Professional Photographers, Freelancer etc.

Course Outcomes

Department of English

Name of the Course: General English

B.A. (Bachelor of Arts)/ B.Sc. Medical/ Non-Medical/ Computer Science

Semester–I

Paper: English

CO 1: Students would be able to comprehend the literary aspects of the language.

CO 2: Learning or studying grammar would guide them to focus on syntactic & semantic parts of the language.

CO 3: It would help them to deal with the globalization through a common language.

CO 4: The stories in the coursework provide students psychological & social growth through the details of different cultures & society i.e. their traditions, rituals, beliefs etc.

CO 5: Students' writing skills and reading skills would be enhanced.

Semester-II

Paper: English

CO 1: Students would be able to comprehend the literary aspects of the language.

CO 2: Learning or studying grammar would guide them to focus on syntactic & semantic parts of the language.

CO 3: It would help them to deal with the globalization through a common language.

CO 4: The stories in the coursework provide students psychological & social growth through the details of different cultures & society i.e. their traditions, rituals, beliefs etc.

CO 5: Students' writing skills and reading skills would be enhanced.

Semester-III

Paper: English

CO 1: Gaining knowledge of the technical aspects of the language.

CO 2: Thinking ability gets enhanced through while dealing with themes of Poetry.

CO 3: They would be able to understand the significance of Literature and Grammar.

CO 4: Enhancing awareness of Community, culture and Language.

Semester-IV

Paper: English

CO 1: Gaining knowledge of the technical aspects of the language.

CO 2: Thinking ability gets enhanced through while dealing with themes of Poetry.

CO 3: They would be able to understand the significance of Literature and Grammar.

CO 4: Enhancing awareness of Community, culture and Language.

Semester-V

Paper: English

CO 1: Brings an awareness of American Society and students get to know about materialistic thinking of American merchants.

CO 2: Concept of American dream is introduced to students.

CO 3: Through poems students get to know about different trends in Poetry of different eras in English literature.

CO 4: Letters, Application, Report, Resume Writing is helpful for students in their formal interaction with others.

Semester-VI

Paper: English

CO 1: The text promotes ethical values.

CO 2: Essay Writing Skills train them in fulfilling the social duties.

CO 3: It helps them to comprehend human weaknesses and overcome them.

CO 4: Improvement in writing skills along with broadening their social and psychological horizon.

Name of the Course-General English

B.Com.

Semester-I

Paper: English

CO 1: Students would be able to comprehend the literary aspects of the language.

CO 2: Learning or studying grammar would guide them to focus on syntactic & semantic parts of the language.

CO 3: It would help them to deal with the globalization through a common language.

CO 4: The stories in the coursework provide students psychological & social growth through the details of different cultures & society i.e. their traditions, rituals, beliefs etc.

CO 5: Students' writing skills and reading skills would be enhanced.

Semester-II

Paper: English

CO 1: Students would be able to comprehend the literary aspects of the language.

CO 2: Learning or studying grammar would guide them to focus on syntactic & semantic parts of the language.

CO 3: It would help them to deal with the globalization through a common language.

CO 4: The stories in the coursework provide students psychological & social growth through the details of different cultures & society i.e. their traditions, rituals, beliefs etc.

CO 5: Students' writing skills and reading skills would be enhanced.

Semester-III

Paper: English

CO 1: Gaining knowledge of the technical aspects of the language and also enhancing reasoning and logical ability.

CO 2: Sensitising students to social issues and they learn to interpret situations from variegated perspectives.

CO 3: Thinking ability gets enhanced through while dealing with themes of Poetry.
CO 4: Enhancing awareness of Community, culture and Language.

Semester-IV

Paper: English

CO 1: Gaining knowledge of the technical aspects of the language and also enhancing reasoning and logical ability.
CO 2: Sensitising students to social issues and they learn to interpret situations from variegated perspectives.
CO 3: Thinking ability gets enhanced through while dealing with themes of Poetry.
CO 4: Enhancing awareness of Community, culture and Language.

Semester-V

Paper: English

CO 1: Brings an awareness of American Society and students get to know about materialistic thinking of American merchants.
CO 2: Concept of American dream is introduced to students.
CO 3: Through poems students get to know about different trends in Poetry of different eras in English literature.
CO 4: Letters, Application, Report, Resume Writing is helpful for students in their formal interaction with others.

Semester-VI

Paper: English

CO 1: The text promotes ethical values.
CO 2: Essay Writing Skills train them in fulfilling the social duties.
CO 3: It helps them to comprehend human weaknesses and overcome them.
CO 4: Improvement in writing skills along with broadening their social and psychological horizon.

Name of Course- General English

B.Voc.

Semester-I

Paper: Communication Skills in English

CO 1: The students get to know the relevance and importance of proper communication.
CO 2: They learn about the various aspects of communication.
CO 3: The reading and writing skills of the students get improvised.
CO 4: Their writing skills get enhanced as they learn how to frame official letters, applications, office memorandum, notices etc.

Semester-II

Paper: Communication Skills in English

CO 1: Improves the listening and speaking skills of the young learners.
CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.
CO 3: Raises their confidence level.
CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of Programme: B.A. with Honours
Course Outcomes
Elective English
Semester-I
Paper: Elective English
CO 1: Learning the critical appreciation of English literature.
CO 2: Understanding of literary devices.
CO 3: Critical analysis of literature in the light of culture, psychology, and economics.
CO 4: Improvement of pronunciation, and inculcate an understanding of phonetics.
Semester-II
Paper: Elective English
CO 1: Learning the critical appreciation of English literature.
CO 2: Understanding of literary devices.
CO 3: Critical analysis of literature in the light of culture, psychology, and economics.
CO 4: Improvement of pronunciation, and inculcate an understanding of phonetics.
Semester-III
Paper: Elective English
CO 1: Familiarization with the current issues of the society.
CO 2: Developing critical and analytical ability of the learners.
CO 3: Imbibing the creative world of the writers from all over the world.
Semester-IV
Paper: Elective English
CO 1: Familiarization with the current issues of the society.
CO 2: Developing critical and analytical ability of the learners.
CO 3: Imbibing the creative world of the writers from all over the world.
Semester-V
Paper: Elective English
CO 1: Understanding the background of the English Literature and thus appreciating the evolving of the English drama, poetry and novel.
CO 2: Learning the art of the critical reading of English drama.
CO 3: Appreciating the cultural differences as well the universality of humanity in the literature.
Semester-VI
Paper: Elective English
CO 1: Understanding the modern critical movements and their impact on English literature.
CO 2: Reading the novel with a focus on the cultural depiction.
CO 3: Getting to know the historical implications of the Second World War on the state of Bengal.

Name of Programme: BCA/ BFA/ B.Sc. (IT)/ BD
Communication Skills
Semester-I
Paper: Communication Skills in English
CO 1: The students get to know the relevance and importance of proper communication.
CO 2: They learn about the various aspects of communication.
CO 3: The reading and writing skills of the students get improvised.
CO 4: Their writing skills get enhanced as they learn how to frame official letters, applications, office memorandum, notices etc.

Semester-II

Paper: Communication Skills in English

CO 1: Improves the listening and speaking skills of the young learners.

CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.

CO 3: Raises their confidence level.

CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of Programme: B.Sc. (Bio-Technology)

Communication Skills

Semester-I

Paper: Communication Skills in English

CO 1: The students get to know the relevance and importance of proper communication.

CO 2: They learn about the various aspects of communication.

CO 3: The reading and writing skills of the students get improvised.

CO 4: Their writing skills get enhanced as they learn how to frame official letters, applications, office memorandum, notices etc.

Semester-II

Paper: Communication Skills in English

CO 1: Improves the listening and speaking skills of the young learners.

CO 2: Sharpens their communication proficiency as they gain practical knowledge about how to deal and interact with others.

CO 3: Raises their confidence level.

CO 4: Makes them familiar with the correct and accurate pronunciation of English word as they work on fluency in English as well as proper intonation and accent of speaking.

Name of Programme: M.Sc. (Fashion Designing)

Communication Skills

Semester-I

Paper: Communication Skills in English

CO 1: Enhances students' ability to be an effective speaker, listener, reader as well as writer.

CO 2: Develops expertise in the English language.

CO 3: Enhances knowledge of grammar and English language in general.

CO 4: Gets opportunity to participate in debates, Elocution and other co-curricular activities in various universities.

CO 5: Students learn to interact.

CO 6: Helps in career development.

CO 7: Students learn writing different kinds of Business letters.

CO 8: Increases vocabulary through interaction.

Semester-IV

Paper: Communication Skills in English

CO 1: The knowledge and skills in English get enhanced.

CO 2: There is a remarkable improvement in the ability to express.

CO 3: Learns to apply grammar in spoken and written form of communication with accuracy.

CO 4: Participation in competitions organized by other academic institutions further enhances their confidence and gives them a platform for self-expression.

CO 5: Improves the formal writing skills and prepares them for public dealing.

Name of Programme: M.A.

Course Outcomes

Semester-I

Paper-I: Poetry-I Renaissance to Romantic

CO 1: To acquaint the students with the most significant English poets and their poetry.

CO 2: To acquaint students with major trends in English literature from the times of Renaissance to Romanticism through a detailed study of poetry of that time.

CO 3: Enable students to trace the evolution of various poetic forms.

CO 4: To train the students in the close reading of poems in the contexts of literary convention and history.

Paper-II: Renaissance Drama

CO 1: Students will get familiarized with the Renaissance Age, its significance and its impact on the literary trends of the age.

CO 2: Students will understand and appreciate the evolving of the English Drama from religious domain to the creative human domain i.e. shift from Theo-centric to homocentric approach.

CO 3: There will be inculcated an understanding of the universality and timelessness of human aspirations and efforts.

CO 4: Students will learn to read drama in the light of the psychological theories like Oedipus complex.

CO 5: Students will get to know the theory of Humors prevalent in the ancient Ages.

CO 6: They will get a thorough understanding of Drama as an Art through their reading of Aristotle's Poetics.

Paper-III: English Novel (up to 19th Century)

CO 1: Students will understand the Impact of industrialization strongly felt in 'Hard times' by Dickens.

CO 2: They will study of emergence of women writers and understand their standpoint on the place of women in society.

CO 3: Inculcating a comprehension of the concept of Realism as used in the Victorian era in the students.

CO 4: Developing an understanding of the emerging feminism and studying the filial relationships shadowed with strong human passion of violence.

Paper-IV: Phonetics and Spoken English

CO 1: To introduce students with the world English-es (i.e. varieties of English) at the phonological level.

CO 2: Making students Understand the standard version of spoken English, i.e. R.P.

CO 3: Introducing students with all the 44 sounds (i.e. phonemes) of English.

CO 4: Making students understand different features of connected English speech.

CO 5: Introduce the grammatical, semantic, and emotional importance of the rise and fall (i.e. intonation patterns) in English speech to the students.

Paper-V: Western Literary History–I

CO 1: Students will be able to analyse literary texts in light of their historical and intellectual background.

CO 2: Students will become familiar with important literary figures and canonical works of historical period i.e. studied.

CO 3: Students will be able to analyse literary texts either singly or in relation to other texts, contextualize them in the light of the period in which they were written.

CO 4: Students will get to know about the journey of English as literature and as a language from past to present.

CO 5: They will be expected to know how to read and interpret some key texts.

CO 6: Students will gain knowledge of different literary movements.

CO 7: They will get familiarized with different literary periods and eras.

CO 8: An in-depth knowledge of different literary genres like drama, poetry and fiction of various ages will come to students.

CO 9: Students will get to know various religious, geographical, historical and personal factors that influenced English literature and its writers in the past.

Semester-II

Paper-VI: Poetry-II (Victorian & Modern)

CO 1: To familiarize students with English Poetry starting from Victorian age and moving towards the modern period.

CO 2: To acquaint students with major trends in English literature from the times of Victorian age to modern times through a detailed study of poetry of that time.

CO 3: Enable students to trace the evolution of various poetic forms

CO 4: To train the students in the close reading of poems in the contexts of literary convention and history.

Paper-VII: Modern Drama

CO 1: Comprehension of Christianity as an orthodox and fanatic religion in the Past.

CO 2: Gaining knowledge about French Kingdom and its society.

CO 3: Understanding the postmodern concept of meaninglessness of human existence conveyed through Beckett and Pinter's works.

CO 4: Getting acquainted with Eliot's platonic view of spiritual salvation and regeneration.

CO 5: Sensitization towards man's alienation from the society thereby depicting growing concerns for the institution of family.

Paper-VIII Modern Novel

CO 1: An understanding of the modernism and the techniques like Stream of Consciousness as a novel literary technique.

CO 2: Comparing the chronological order in fiction- writing adopted in 19th century with 20th Century focus on psychological impact of the 'moment'.

CO 3: Getting acquainted with the theory of Oedipus complex by Freud which had a strong impact on the writings of DH Lawrence.

CO 4: Understanding the shift in sensibilities, perceptions and expressions in twentieth Century writings.

Paper-IX: English Grammar and Writing

CO 1: To provide an understanding of the practical, functional, and experimental nature of modern grammar.

CO 2: Understanding of the smallest meaningful units and how they form words in English.

CO 3: Comparing grammatical form and its function in different environments.

CO 4: Comparing time, tense, aspect, and mood in English.

CO 5: Introducing types of sentences and clauses, their function, and how cohesive devices are used to create long text.

CO 6: Applied grammar and composition and how the understanding of language is essential beyond grammar.

Paper-X: Western Literary History–II

CO 1: The course covers the period from World War I to the present age by which the students become acquainted with the transitions in society with time.

CO 2: Literature is universal and so the syllabus unfolds the layers of literature from all the spheres of world i.e. British, American, Continental.

CO 3: The learner imbibes the scenario and structure of a particular society and is able to relate literature with its respective era.

CO 4: The students understand the historical stance of each genre.

Semester-III

Paper-XI: Irish Literature

CO 1: Analysing, Synthesising and Integrating knowledge and practice creative thinking and expression.

CO 2: Getting acquainted with concepts and information related to Irish History and Culture clearly.

CO 3: Understanding of mythological and literary concepts.

CO 4: Helps in the construction of nation and national history through literature.

Paper-XII: General Linguistics

CO 1: Understanding of semiotics and the way various signs and symbols convey meaning.

CO 2: The study of synchronic structural linguistics of Saussure and Bloomfield.

CO 3: Understanding and knowledge of transformational-generative linguistics of Chomsky.

CO 4: Highlighting the importance of systemic functional linguistics of Halliday.

CO 5: Acquainting students with various methods of teaching (grammar-translation method, direct method, audio-lingual method) and approaches (structural and communicative approaches).

Paper-XIII: Literary Criticism

CO 1: To introduce the various aspects of literary criticism for proper understanding and appreciation of literature.

CO 2: To acquaint students with some of the fundamental questions in literature.

CO 3: This course aims at helping the students to develop critical insight into literary productions.

CO 4: To introduce literary and critical theory as reading tools for students.

Paper-XIV: Indian Writing in English

CO 1: Acquainting students with the 20th century Indian writers writing in English.

CO 2: Developing a strong understanding of Indian-ness contrasted with western culture.

CO 3: Understanding the concept of domination of male in society-- a patriarchal set up.

CO 4: Getting students acquainted with Kamala Das's creativity with its autobiographical strain, and her voice against the sexual exploitation faced by women in our society.

CO 5: Understanding the class differences and the exploitation of the lower castes.

Paper-XV: Communication Studies

CO 1: Understanding the nature of language of cinema.

CO 2: Getting acquainted with the visual mode of story-telling.

CO 3: Imbibing potential for cross culture communication.

CO 4: Gaining knowledge of the medium and models of communication.

CO 5: Improving interpersonal skills of the stakeholders.

Semester-IV

Paper-XVI: Modern Literary Theory

CO 1: Introduction of students to theories like- feminism, structuralism, orientalism etc.

CO 2: Familiarization with knowledge areas and analytical tools.

CO 3: Learning to De –construct the text to find out new meanings.

CO 4: Using ideas from text in reading and writing.

Paper-XVII: American Literature

CO 1: Students will perceive the evolving of a great nation-America from a Puritan narrow foundation.

CO 2: Learning to trace the belief and faith in humanity which is the true foundation of Democracy.

CO 3: Envisioning the universal philosophical vision about life, work, and humanity in the poetry of Frost.

CO 4: Psychological study of the concept of racial prejudices, collective unconscious and understanding the relevance of human dignity in life.

Paper-XVIII: Post-Colonial Literature

CO 1: To familiarize the students with theoretical concepts related to the literatures of the 'new' world - Caribbean, Asian, Canadian, Nigerian - which have long remained ignored.

CO 2: To foreground issues such as history, class, race, gender, nation, culture, marginality, diaspora consciousness.

CO 3: To enable students to primarily focus on interrogating the Western canon.

CO 4: To introduce students to recent theoretical approaches to understand post-colonial, and gain a better insight into how these issues relate to their own country's history of colonisation.

Paper-XIX: Prose and Short Stories

CO 1: Understanding the origin and development of English essay.

CO 2: Understanding a literary text in different contexts.

CO 3: Imbibing knowledge of socio political and economic conditions of the society.

CO 4: Developing an ability to write critically and creatively.

Paper-XX: Indian Literature In Translation

CO 1: Reading *Japji*is to reach into our inner conscience cuts through the folds of our ego so as to understand the true purpose of life.

CO 2: Tracing the relevance of Tagore's Novel in modern times for its delineation of the conflict between the forces of fanatic Nationalism and humanism.

CO 3: Understanding the rich heritage of Sanskrit drama from *KalidasKavya* and the concepts of Epic and lyric.

CO 4: Attempting to reconcile Modernity and tradition through works of Anantha Murthy which challenges the orthodoxy of Brahmanism.

Department of Hindi

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: AadhunikKavita ,VayakarantathaAnuvaad

CO 1: Students will learn about the uses of translation.

CO 2: Students will learn about Hindi grammar.

CO 3: The students are provided with the knowledge of Hindi literature.

CO 4: They will get knowledge about Hindi as an official language.

Semester-II

Paper: GadhyeSahitye ,Sadhantki , VayakarantathaPatrakarita

CO 1: Students will learn about media writing skill.

CO 2: Students will get knowledge about contemporary literature.

CO 3: They will be provided with the knowledge about vocabulary.

CO 4: They will understand about prose literature.

Semester-III

Paper: MadhyayogeenKavye ,Itihas , VayakarantathaKavayang

CO 1: Students learn and understand about history of hindi literature.

CO 2: The students are provided with the knowledge about medieval hindi poetry and poets.

CO 3: They are provided with the practice of hindi grammar.

Semester-IV

Paper: Upanayas :Natak : SadhantkiVayakarantatha Bhakti Kaal

CO 1: The students are provided with the knowledge about bhakti period of hindi literature.

CO 2: They will be able to understand about the various literary forms.

CO 3: They are provided with the knowledge of social reformer and revolutionary hindi author Premchand through his novel 'Nirmala'.

CO 4: They will get the Practical knowledge of grammar.

Semester-V

Paper: VishishtKaviAvamKavyaSidhant ,Kaamkaji Hindi tathaReetikaal

CO 1: Students are provided with the knowledge of history of hindi literature especially about reetikaal.

CO 2: They will get knowledge about linguistics.

CO 3: They will learn and understand Hindi - as an official language.

CO 4: The Students will be acquainted with the Knowledge about the great Indian scripture' Mahabharat' and its relevance in our day to day life through hindi epic 'Rashmirathi' authoured by 'Ramdhari Singh Dinkar'.

Semester-VI

Paper: LaghuVidha ,AadhunikKaal , Nibandh Lekhantatha Paribhashik Shabdawali

CO 1: Students will learn about official language hindi.

CO 2: They are provided with the knowledge of contemporary hindi literature.

CO 3: They will get the knowledge about various hindi genres.

CO 4: They learn and understand about vocabulary.

Name of Programme: B.A. with Hindi Honours

Course Outcomes

Semester-III

Paper: Aadhunik Kavyetatha Kavya Natak

CO 1: Students will be provided with the knowledge of Modern poetry of hindi literature.

CO 2: They will learn and understand about contemporary period through historical play.

CO 3: They will learn about sociological, psychological aspects of society through modern poetry.

Semester-IV

Paper: Gadhye Sahityetatha Nibandh

CO 1: Students will get knowledge about different forms of hindi prose.

CO 2: They will learn and understand about rich Indian culture, its traditions etc.

CO 3: They will be provided with the knowledge of different aspects of society through hindi literature.

Semester-V

Paper: Bhakti aur Samkaleen Kavaya

CO 1: Students are provided with the knowledge about the medieval period of hindi.

CO 2: They will get knowledge about great poet Tulsidas and his literature or contemporary world etc.

CO 3: They will get knowledge about Krishna kavaya through 'RaskhaanRachnavli'.

CO 4: They will learn and understand the various aspects of moderm poetry.

Semester-VI

Paper: Bhartiye Kavayashastra aur Paryojanmulak Hindi

CO 1: Students will get knowledge about linguistics.
CO 2: They will understand about Hindi – as national language.
CO 3: They will get knowledge about official language etc.

Name of Programme: M.A. (Hindi)

Course Outcomes

Semester-I

Paper-I: Adhunik Hindi Kavye (Divediyugeen Avam Chayavaad)

CO 1: Students will learn about contemporary literature.
CO 2: They are provided with the knowledge of Sociological, Psychological aspects of our society.
CO 3: They will learn about different poet like – MaithlisharanGupt, SuryekantTripathiNirala, JaishankerParsad etc.
CO 4: They are provided with the knowledge of historical literature like Ramayan, Mahabharat etc.

Paper-II: Hindi SahityeKaItihas (Aadhikaal, Bhagtikaal, Reetikaal)

CO 1: Students will learn about origin of hindi literature.
CO 2: They are acquainted with the knowledge of history of hindi literature.
CO 3: They are provided with the knowledge of different aspect of literature.
CO 4: They will learn about our religious epic like – Ramchritmanas.

Paper –III: BhartiyeKavyeShastraAvamSahitalochna

CO 1: Students are provided with the knowledge of linguistics.
CO 2: Theylearn about different forms of hindi poetry and prose.
CO 3: They will be acquainted with the basic concepts related to technical aspects of hindi.
CO 4: They are provided with the knowledge of hindi grammar and dialects.

Paper-IV: Prayojanmulak Hindi

CO 1: The students are provided with the knowledge of hindi as official language.
CO 2: Students will learn about technical and official vocabulary used in hindi language.
CO 3: They are acquainted with the detail knowledge of functional hindi.
CO 4: They are provided with the knowledge of computer and internet.

Paper-V: Natak and Rangmanch

CO 1: Students will learn about the history of hindi theatre.
CO 2: They are provided with Sociological and psychological study of Indian play.
CO 3: They will learn and understand the various aspects of social psychology through hindi plays.
CO 4: Students will get knowledge about great hindi writer like – Bhartendu Harishchandra, Jai Shanker Parsad etc

Semester-II

Paper-VI: Aadhunik Hindi Kavye –Chayavaadottar Hindi Kavye

CO 1: The students are provided with the knowledge of modern period of Hindi literature.
CO 2: They will learn and understand of social scenario of India.
CO 3: They will be provided with the knowledge of political aspects of india.
CO 4: They are taught about various modern poet like –Muktibodh, Aagye, Dhumil etc.

Paper-VII: Hindi Sahitye KaItihas (Adhunik Kaal)

CO 1: Students will learn and understand about various forms of literature.
CO 2: They will be provided with the knowledge of contemporary Hindi literature.
CO 3: They are get knowledge about social, religious aspects of society.
CO 4: They will learn about various characteristics of modern literature.

Paper-VIII: Pashchatye KavyeShastra

CO 1: Students will learn about the various theories of western philosophers about literature.
CO 2: They will learn and understand about the impact of various revolutions on literature.
CO 3: They will get knowledge about different aspects of Kavshastra.
CO 4: They will be provided with the practical knowledge of Hindi criticism.

Paper-IX: Media Lekhan

CO 1: Students will learn and understand about media, internet and modes of MCVP.
CO 2: It will help to improve writing skills editing skills as well as reading skills, newspaper making skills amongst students.
CO 3: They will learn and provided with the knowledge about computer practical work in hindi.

Paper-X: Natakkar Mohan Rakesh

CO 1: Students will study about psychological and sociological aspects of society through hindi plays.
CO 2: They will get knowledge about the Role of Indian theatre/ art in modern society.
CO 3: They will learn about writing skills of Natak.

Semester-III

Paper-XI: Pracheen Avam Madhyakaleen Hindi Kavaya

CO 1**:** The students will be acquainted with the Aadikaleen and Bhaktikaleen hindi poets and their writings.
CO 2: They will learn about Nirgun and Sagunpoetry.
CO 3: They are provided the knowledge regarding development of hindi Language with the sincere-efforts of Madhakaleenpoets.
CO 4: Students will learn regarding Indian culture through the poetry of eminent Madhakaleen poets.
CO 5: Awareness is created among students regarding the hindi Suffi-Poetry.

Paper-XII: AadhunikGdayaSahitya

CO 1: Student will get information about the history.
CO 2: Students will get knowledge about different types of modern Hindi Story, Novel etc.
CO 3: They will get information about different types of Modern Hindi prose.
CO 4: They will be acquainted with the modern Prose-writers.
CO 5: Students are provided the knowledge regarding Munshi Premchand, Mahadevi Verma, Bhism Sahni, Yashpal and their prose writings.
CO 6: Awareness is created among the students regarding the modern day today social problems and their solutions through the different writings.

Paper-XIII: Bhasha-Vigyaan

CO 1: The students will be acquainted with the language, its components, forms etc.
CO 2: The students will learn about linguistics.
CO 3: They are provided the knowledge regarding Dhawani-Vigyan, AarthVigyan of language.
CO 4: They will learn about different linguistics forms.

Paper- XIV: Patarkarita Parkashan

CO 1: The students will be acquainted with the importance of Print and Electronic Media.

CO 2: The students will learn about the role of Newspapers and magazines in our life.

CO 3: They are provided the knowledge regarding the role of Editors, Sub-Editor, Correspondent, Proof-readers etc. in the Newspapers.

CO 4: They will learn the writing skill for Newspapers, Magazines etc.

CO 5: They will get information about the scope of Print Media and how they can choose it as a profession.

Paper-XV Option (I) : Bhaktikaleen Poet-Surdass

CO 1: The students will be acquainted with the great writings.

CO 2: They will learn about Pushtimargeeye Bhakti.

CO 3: They are provided the knowledge regarding philosophical element in SurdassKavaya.

CO 4: They will get knowledge about "Nirgun-Sagundavand" prevailed at that particular era.

CO 5: Awareness is created among the students regarding the lyrical poetry.

Semester-IV

Paper-XVI: Madhyakaleen Hindi Kavaya

CO 1: The students will be acquainted with the Madhayakaleenhindipoetry.

CO 2: The students will learn about hindi Krishna Bhakti-Dhara.

CO 3: They will get knowledge about the great Hindi Epic "Ram CharitManas" and its importance in that period.

CO 4: They are provided the knowledge regarding the relevance of Madhakaleenhindi poetry in present era.

CO 5: Awareness is created among the students regarding hindiReeti-kaleen poetry with the Bihari's poetry and its unique features.

Paper-XVII: AadhunikGadyaSahitya

CO 1: The students will be acquainted with the modern essay-writings, auto biographic in hindi literature.

CO 2: They will learn about Mahatma Gandhi's life-sketch, his great doings, great thoughts through his auto-biography.

CO 3: They are provided the knowledge regarding day to day social problems and their solutions through different prose-writings about great author from Punjab.

CO 4: They are provided knowledge regarding Modern Society through "Aadhe Adhure" play authored by Mohan Rakesh as this play is the mirror of modern society and its problems.

Paper-XVIII: Hindi Bhashaaur Devnagri Lipi

CO 1: Students will learn about origin and history of different languages.

CO 2: They will be acquainted with the history of hindi language.

CO 3: They are provided the knowledge regarding the Devnagri Lipi as a scientific lipi.

CO 4: Awareness is created among the students regarding different dialects of hindi language.

Paper-XIX: Rajbhasha-Prashikshan

CO 1: The students will be acquainted with the importance of official languages.

CO 2: The students will get information about hindi as an official language.

CO 3: The students will learn about the different constitutional articles regarding official language hindi.

CO 4: The students are provided the knowledge regarding hindi computing.

CO 5: Awareness is created among the students regarding the need of translators in government offices.

Paper-XX: Uttar Kavayadharake Sandharbh mein Guru Teg Bahadur ki Banika Vishesh Adhyan

CO 1: The students will be acquainted with the Uttar Kavayadhara of hindi literature.
CO 2: The students will learn about Guru TegBahadur'sBani.
CO 3: The students will learn regarding the impact of Guruji'sBani on Punjabi and hindi literature of Punjab.
CO 4: Students are provided the knowledge regarding the progressive attitude of Guruji'sBani.

Department of Punjabi

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: General Punjabi

CO 1: Students will learn about the moral value of our society with references of Biography.
CO 2: Students will also learn about the sound–planning of phonetics.
CO 3: Students will gain the cultural knowledge of Punjab.
CO 4: Students will come to know about our some renowned artists, painters, actors and scholars of India.

Semester-II

Paper: General Punjabi

CO 1: Students will learn how to handle the social, economic and political problems.
CO 2: Students will get the information about words structure.
CO 3: They will learn truths of life from idioms and phrases which are treasure of knowledge of our ancestors.

Semester-III

Paper: General Punjabi

CO 1: It provides the knowledge about the poets and their poetry.
CO 2: Students will feel attached with nature and environment after reading.
CO 3: It (poetry) will increase the knowledge about Punjabi culture, moral values in students.
CO 4: With this students will learn about the different idioms in their own common language that is punjabi.

Semester-IV

Paper: General Punjabi

CO 1: Students will learn the ways of writing Business letter like sales letter, complaint letter andinquiry letter.
CO 2: Students will learn how to write and usepunjabi in accurate words as well as special focus on pronunciation.
CO 3: Students will get the knowledge about martyrs of country with one act plays.
CO 4: They will acquire the knowledge about scripts, and how it is suitable for the language.

Semester-V

Paper: General Punjabi

CO 1: Students will acquire the knowledge to write compositions on different topics relating to social and moral values and issues.
CO 2: Students will learn about the vowel and sounds in linguistics.
CO 3: Students will learn about causes of social problems like poverty, gender discrimination, and cast discrimination.
CO 4: They will also learn how to handle the problems of society.

Semester-VI

Paper: General Punjabi

CO 1: They will acquire knowledge about culture of uncivilized tribes of Andaman and Nicobar Island.

CO 2: Students will learn the culture of various countries like Switzerland, Bangkok etc.

CO 3: Students will learn about the moral value of our society with the references of stories.

Name of Programme: M.A. (Punjabi)

Course Outcomes

Semester-I

Paper: I Gurmat-Kav

CO 1: Students will learn about the history of ten guru sahibaans and their Gurbani .

CO 2: Students will gain the knowledge about the main motif of our life by Gurbani

Paper: II Punjabi Sufikav

CO 1: Students will learn about Sufi saint and their struggles, ethical life and other significant aspects of their lives.

Paper: III SahitSidhant Ate BhartiKaavShaster

CO 1: Students will get proper literary information and its importance.

CO 2: They become familiar with the boundaries and modes of literature.

CO 3: They will get the Extensive information on Indian and western literature.

CO 4: They will get the knowledge about criticism ofliterature.

Paper: IV Lokdhara Ate Punjabi Lokdhara

CO 1: Students will gain the knowledge about the folklore and its various types.

CO 2: Students will also learn about folk religion, believes and rituals

CO 3: Students will be informed about the different Punjabi folk art.

Paper:V Tunatmik Sahit

CO 1: By studying this subject students will learn about comparative study as well as translation of literature.

CO 2: Students will experience the tragedy of India-Pakistan separation in 1947, which was an inhuman phenomenon.

CO 3: Students will gain knowledge about the absence of life through absurd plays.

Semester-II

Paper: VI Bhakti Kav

CO 1: Students will learn and focus on the pure pronunciation and linguistic of Gurbani.

CO 2: The study of such poems leads the students to right fruitful path in real sense.

Paper: VII Madhkaleen Punjabi BirtanatKav

CO 1: Students will gain the knowledge about the medieval Punjabi literature

CO 2: Students will also get the knowledge about our guru sahibans.

CO 3: With the references of Punjabi kissa- kav students will learn about our medieval culture.

Paper: VIII Khoj Ate Punjabi Alocna

CO 1: Students will get the information about the history of Punjabi criticism.

CO 2: They will be able to do practical criticism of literary works.

CO 3: They will be gain the knowledge about the foreign criticism as well as Indian criticism

Paper: IX Punjabi Sabheyachar

CO 1: Through the syllabus, students will get the opportunity to study culture, folk, literature, Punjabi plays and theatre which they will experience personally by their interaction with their paternal grandmothers.

CO 2: Some of the students even recorded the folk song in the melodious voice of their grandmother.

Paper: X Patarkari Ate Punjabi Patarkari

CO 1: Students will get the information regarding the rules and activities of journalism.

CO 2: Students will gain the knowledge about all the activities related to journalism in Punjabi.

CO 3: Students will learn electronic media such as Google, Facebook, Whatsapp etc.

Semester-III

Paper: XI Adhunik Punjabi Kavita (1960 Tak)

CO 1: After knowing the principle, history and paradigm of modern Punjabi poetry, the information of students will increase.

CO 2: Students will read and understand the collection of poetry and will also learn about poet's ideology.

Paper: XII Punjabi Novel

CO 1: Students will able to learn about the origin of Punjabi novel and its development under the effect of English novel.

CO 2: Students will learn about Nanak Singh who is first reformist novelist, wrote about corruption, religious propagandas, women's condition in made dominating society and satire on our all systems which are corrupted by power seeking people and common man is sufferings.

Paper: XIII Punjabi Bhasha Ate BhashaVigyaan

CO 1: Students will get the rich knowledge about Punjabi language.

CO 2: Students will learn about the developments in the Punjabi language.

CO 3: They will be motivated to opt the research in Punjabi language.

Paper: XIV Punjabi Sahit Da Itehas(1850 Tak)

CO 1: This paper will not only introduces the students to the meaning of literature; to the importance of literature in real life or to the information related to various renowned names in the literary history but also inspire them to go through the process of converting their ideas into different genres.

CO 2: History of Punjabi literature gives them a holistic approach towards the era in which any work has been imbibed by the literary artist.

CO 3: It will provide politically, social, economic as well as cultural insight into the development of work over the period of time.

Paper: XV Parvasi Punjabi Sahit

CO 1: It will provide the informative knowledge about the syllabus and Diaspora.

CO 2: All topics concerns with human values and social problems of post modernism.

CO 3: Social & cultural perspective of western countries.

Semester-IV

Paper: XVI Adhunik Punjabi Kavita(1960 Ton Bad)

CO 1: The poetry after 1960s will be discussed with the students.

CO 2: They will be accepted the modern social experience by reading the poems of modern Punjabi poets Jagtar, SurjitPatar and SukhwinderAmrit.

Paper: XVII Punjabi Nikki Kahani

CO 1: Students will develop their vision to understand life and how to live life by reading stories of different Punjabi writers.

CO2: They will understand the value of relation, social values and real meaning of life.

Paper: XVIII PunjabiBhasha Ate BhashaVigyaan 2nd

CO 1: Love for mother tongue will increase, with which the propagation of self-written writings among the students will increase.

CO 2: Students will be motivated to selectPunjabi linguistics as a subject for civil services.

CO 3: By comparing Punjabi language with other languages,they will understand the importance of mother tongue.

Paper: XIX PunjabiNatak

CO 1: Students will develop their vision to understand life and how to live life.

CO 2: They will understand the value of relation, social values and real meaning of life

Paper: XX Punjabi Sahit Da Itehas (1850 Ton Hun Tak)

CO 1: Paper of theatre not only motivated them to become an audience to meaningful theatre but also lured them to visit mesmerizing creation of Sh. GurbakshSingh Preetladi, PreetNagar from the times of undivided Punjab.

CO 2: They will explore this Mecca of Punjabi Rangmanch (theatre) and explore the literature more after visiting BalrajSahni open air theatre.

CO 3: They able to learn how they will survive in the fast changing society with different values and systems.

Name of Programme: B.A. with Elective Punjabi

Course Outcomes

Semester-I

Paper: Elective Punjabi

CO 1: Students will learn about the moral value of our society with references of Biography.

CO 2: Students will also learn about the sound–planning of phonetics.

CO 3: Students will gain the cultural knowledge.

Semester-II

Paper: Elective Punjabi

CO 1: History of Punjabi literature gives them a holistic approach towards the era in which any work has been imbibed by the literary artist.

CO 2: It will provide political, social, economic as well as cultural insight into the work in literature over the period of time.

CO 3: Students will learn the ways of writing business letter like sales letter, complaint letter and inquiry letter.

Semester-III

Paper: Elective Punjabi

CO 1: Student will learn about medieval history of Punjabi literature, its origin and different phases.

CO 2: Students get knowledge about prominent writers of Punjabi short story and their ideology about the changing scenario of Punjabi in 21st century.

CO 3: They become able to learn how the empowered women facing many challenges in their successful lives.

Semester-IV

Paper: Elective Punjabi

CO 1: Students become able to learn about different poetic genre.

CO 2: Understand about ChandiDi War and semi historical Nadir Shah Di War.

CO 3: Learn about richness of Sufi poetry and its influence on other Punjabi literary traditions.

CO 4: Study PunjabiKissa a genre of romantic tragedy.

CO 5: Learn heroic ballades known as war, enjoy a rich tradition in Punjab and causes of origin.

Semester-V

Paper: Elective Punjabi

CO 1: Students willenrich knowledge by studyingGurmatKav, SufiKav, WarKav andKissaKav.

CO 2: This Poetry inculcates the strong moral values, ethics and Indian culture in students.

CO 3: Students come to know about problems and challenges of Diaspora.

CO 4: They study and understand the reasons of increasing curiosity among youth to move and settle abroad.

CO 5: Chandan De Ohleplay depictsPunjabiculture, heritage and status of women in Punjab.

Semester-VI

Paper: Elective Punjabi

CO 1: Social Scenario of Medieval period

CO 2: History of Punjabi literature from 9^{th} Century to 16^{th} century

CO 3: Students can learn and come to know regarding trends & ideology of classic Punjabi poets.

CO 4: Students learn basic concept of literature

CO 5: Sahitte Samaj, Sahitte Shaksiyat topics are beneficial for students to learn literary terms more deeply.

CO 6: Emphasis on the text with critical observations.

Name of Programme: BSc.IT, B.Voc, BFA, BDMM (All Professional Classes)

Course Outcomes- General Punjabi

Semester-I

Paper: General Punjabi (Professional Classes)

CO 1: Writing skills of the students will be enhanced.

CO 2: Students will be encouraged to take part in social and political activities.

CO 3: They will understand the significance of Punjabi language.

CO 4: Punjabi language will be promoted among the students.

Semester-II

Paper: General Punjabi (Professional Classes)

CO 1: Students will start writing inPunjabi language.

CO 2: Student will pay attention towards correct and pure Punjabi writing.

CO 3: Student will learngrammatical rules.

Name of Programme: (B.A./BSc./ B.Com/BBA/ B.Voc/BCA/BFA)

Course Outcomes- Basic Punjabi

Semester-I

Paper: Basic Punjabi

CO 1: Students will learn about days of week, name of months and name of season in Punjabi language

CO 2: They will learn to write and read counting from one to hundred in Punjabi.

CO 3: Students will learn vocabulary words of Punjabi language used in daily routine.

Semester-II

Paper: Basic Punjabi

CO 1: Students will learn writing formal and informal letters and will understand various proverbs and idioms

CO 2: Through proverbs and idioms they will learn about richness of Punjabi literature.

CO 4: Student will become able to understand words and sentence formation.

Semester-III

Paper: Basic Punjabi

CO 1: Students will gain the knowledge about different components of grammar.

CO 2: They will be able to write about current and new issues through paragraph writing

CO 3: Students will learn tocommunicate with each other in Punjabi language.

Department of Sanskrit

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: PuransardhshatkamtathaViyakaran

CO 1: Students will study life sketch of BhagatPuran Singh from the book Puransardhshatkam.

CO 2: They will have detailed knowledge about active participation of BhagatPuran Singh in social welfare.

CO 3: They will get motivated by the charity work of Puran Singh for orphans, handicapped and poor people.

CO 4: They will understand his concern about environmental issues.

CO 5: They will get knowledge regardingproper pronunciation of language.

Semester-II

Paper: NeetishatkamtathaViyakaran

CO 1: Students will study the different aspects regarding compassionate humanism from the book Neetishatkam.

CO 2: The concept of defining ignorant people on the basis of prescribed book will be taught to the students.

CO 3: They will understand the advantages of knowledge.

CO 4: They will be able to analyse the merits of silence and interaction with spiritually enlightened souls.

CO 5: The Grammatical features of different word forms will be taught to them.

Semester-III

Paper: Swapanvasvdattam by BhasatathaViyakaran

CO 1: Students will study life fiction based natak- Swapanvasvdattam by Bhasa.

CO 2: They will get knowledge regarding hermitage way of life.

CO 3: Respect for Women will be taught to students through the natak.

CO 4: They will understand the correct articulation of words through language.

Semester-IV

Paper: Shrimadbhagvad Gita- Fourth ChaptertathaViyakaran

CO 1: Students will be taught about eternal principles of Karma Theory.

CO 2: The will understand the objective of Lord's incarnation on earth.

CO 3: They will acquire knowledge of Karma, Vikrama and Akarma.

CO 4: They will learn about different types of Yajnas.

CO 5: They will be made aware regarding source for the attainment of knowledge.

CO 6: Grammar will help them in reading the language properly.

CO 7: They will learn the bilingual translation from Hindi to Sanskrit.

Semester-V

Paper: Labdh-Pranash (Panchtantra)

CO 1: Narrative literature (Katha Sahitya) will be discussed with the students.

CO 2: Depiction of Ethical Moral values through allegory will be discussed.

CO 3: The students will be imparted knowledge of four Vedas.

CO 4: Use of practical words in Sanskrit will be discussed.

Semester-VI

Paper: Shrimadbhagvad Gita- Second Chapter tathaViyakaran

CO 1: Students will get knowledge about nature of selfless karmas.

CO 3: They will be able to understand the Importance of maintaining balance in life.

CO 4: They will be able to analyse mysticism of soul and the ultimate God.

CO 5: They will be able to understand the definition of a stable soul.

CO 6: They will be acquainted with knowledge of modern Sanskrit through various books of different scholars.

CO 7: They will learn to write essays in Sanskrit.

Department of Music Vocal

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Music Vocal (Theory)

CO 1: Students would be able to know about their basic instrument Tanpura, its parts, tuning and utility. They will also learn basic terms of music.

CO 2: Study the biographies of medieval and present music masters. At the same time they would be acquainted with folk tradition of Punjab.

CO 3: Analyse the description of detailed and non- detailed ragas and talas with notations.

CO 4: To know about the rich tradition of Gurmatsangeet and their technical terminology.

Semester-I

Paper: Music Vocal (Practical)

CO 1: Students would be able to study 3 ragas in detail along with comparative study of three non-detailed ragas.

CO 2: Learn Sargam-geet and playing of harmonium based on Bilawalthaat.

CO 3: Learns the ekgun and dugun of two basic talas. At the same time they would also get a chance to imbibe the folk tradition of Punjab.

Semester-II

Paper: Music Vocal (Theory)

CO 1: Students would be able to know about the history of Indian music during Vedic period. At the same time the students would learn about the basic musical terms of Indian music.

CO 2: Study the biographies of two founder musicians/ musicologist of the modern music education system. At the same time the students would get an analytical account of time theory of Hindustani music.

CO 3: Analyze the description of detailed and non- detailed ragas and talas with notations.

CO 4: To know about the contribution of Bhai Mardana Ji towards Gurmat sangeet and technical terminology of Gurmat sangeet prabandh.

Semester-II

Paper: Music Vocal (Practical)

CO 1: Students would be able to study three ragas in detail along with comparative study of three non-detailed ragas. At the same time the students would be introduced to a different style of classical singing i.e. Vilambit Khayal.

CO 2: Learn Shabad in prescribed ragas and playing Alankaars on harmonium based on Kalyan, Kafi and Asawarithaat.

CO 3: Learn the ekgun and dugun of two talas on hand and two talas on tabla in addition. At the same time the students would also get a chance to imbibe the folk tradition of Punjab i.e. Suhag.

Semester-III

Paper: Music Vocal (Theory)

CO 1: Students would be able to know about the history of Indian music from 14^{th} to17^{th} century. At the same time the students would learn about some musical terms of Indian music.

CO 2: Study about most important instrument Tanpura, its tuning methods and the study of tones and over tones of it. Besides this, the students would study the various types of taans.

CO 3: Analyse the description of detailed and non-detailed ragas and talas with notations.

CO 4: Study the biographies and contribution of three renowned vocalist of 20^{th} century towards Indian classical music. At the same time the students would know kirtanchownkies of Gurmatsangeet.

Semester-III

Paper: Music Vocal (Practical)

CO 1: Students would be able to study three ragas in detail along with comparative study of three non-detailed ragas. At the same time the students would learn VilambitKhayal andDhrupad with ekgun, dugunlaykari in prescribed ragas.

CO 2: Learn the ekgun and dugun of two talas on hand and one taal on tabla in addition. At the same time the students would also get a chance to learn one Lakshan-geet in prescribed raga.

CO 3: Play Punjabi folk song and alankaars on harmonium based on Kafithaat.

Semester-IV

Paper: Music Vocal (Theory)

CO 1: Through this course Students would be able to develop their knowledge about Khayal singing style and some other singing forms of Indian classical music.

CO 2: Learn the methods of formations of 484 ragas from one thaat guided by Pt. Vyankatmakhi. Besides this the students would go throw the salient features of ancient ten raga- lakhshan.

CO 3: Analyse the description of detailed and non- detailed ragas and talas with notations.

CO 4: Study the biography of three renowned musicians of 20^{th} century. They would study the merits and demerits of a singer. At the same time the students would analyze the folk singing styles of Gurmatsangeet.

Semester-IV

Paper: Music Vocal (Practical)

CO 1: Students would be able to study three ragas in detail along with comparative study of three non- detailed ragas. At the same time the students would learn VilambitKhayal, DrutKhayal and one Tarana in prescribed ragas.

CO 2: Learn the ekgun and dugun of two talas on hand and one taal on tabla in addition. At the same time the students would also get a chance to learn one Lakshan-geet in any prescribed raga.

CO 3: Play cinematic song, national anthem and alankaars on harmonium based on Kafithaat.

Semester-V

Paper: Music Vocal (Theory)

CO 1: Students would be able to know about the globalization of Indian music. At the same time they would study the merits and demerits of Indian notation system.

CO 2: Study about light classical along with Chaturang and folk music of Punjab.

CO 3: Analyse the description of detailed and non-detailed ragas and talas with notations.

CO 4: Study about voice culture, stage performance and relation of music with yoga.

CO 5: Study biography of one renowned folk singer of Punjab and two classical music scholars of India. At the same time the students would get knowledge about classical based singing styles of Gurmat sangeet.

Semester-V

Paper: Music Vocal (Practical)

CO 1: Students would be able to study three ragas in detail along with comparative study of three non-detailed ragas. At the same time the students would learn VilambitKhayal, DrutKhayal, Tirvat/Chaturang in prescribed ragas.

CO 2: Learn the ekgun and dugun of two talas on hand and one taal on tabla in addition. At the same time the students would also get a chance to learn one gazal.

CO 3: Play alankaars on harmonium based on Asawarithaat.

Semester-VI

Paper: Music Vocal (Theory)

CO 1: Students would be able to know about the historical development of Indian music of modern period. At the same time they would develop their knowledge about ghranas of Khayal singing and some singing forms of Indian classical music.

CO 2: Analyse the description of detailed and non- detailed ragas and talas with notations.

CO 3: Learn the methods of formations of 72 thaats of south Indian music guided by Pt. Vyankatmakhi. At the same time students would know about the interrelation of raga and ras, music and literature.

CO 4: Study the biographies of three renowned music scholars and musicians of 20th century. They would also study the devotional impact of music for human life. At the same time the student would study about the contribution of great 'Saint Soldier' Sri Guru Gobind Singh Ji towards the tradition of Gurmatsangeet.

Semester-VI

Paper: Music Vocal (Practical)

CO 1: Students would be able to study three ragas in detail along with comparative study of three non-detailed ragas. At the same time the students would learn Vilambit Khayal, Drut Khayal, one Dhamar and one Shabad/Bhajan in prescribed ragas.

CO 2: Learn the ekgun and dugun of two talas on hand and one taal on tabla in addition. At the same time the students would also get a chance to learn one Lakshan-geet in any prescribed raga.

CO 3: Play one cinematic song and five alankaars on harmonium based on Khmaajthaat.

Department of Music Instrumental

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester- I

Paper: Music Instrumental Theory & Practical

CO 1: Music has always played a major role in society. It exalts the human spirit and enhances the quality of life.

CO 2: One fundamental purpose of education is to transmit our cultural heritage and music is a powerful means for communicating that message.

CO 3: Demonstrate competence in musicianship, to include: aural skills and knowledge and application of music theory.

CO 4: Demonstrate competence in musical performance on his/her primary instrument with particular emphasis on technical precision.

CO 5: Demonstrate competence in basic instrument playing skills.

CO 6: Exhibit knowledge of instructional methods as they pertain to choral, instrumental and general music education.

CO 7: Act as a means for enhancing self-esteem, respect for others and good citizenship.

CO 8: Exhibit knowledge of current issues and trends in music education.

CO 9: Music uses one of the most powerful systems which can be used for the development of critical thinking skills in all students.

CO 10: Students will demonstrate an understanding of career options related to their area of specialization.

Semester- II

Paper: Music Instrumental

Theory & Practical

CO 1: Demonstrate competence in musicianship to include: aural skills, knowledge and application of music theory.

CO 2: Demonstrate competence in musical performance on his/her primary instrument with particular emphasis on technical precision.

CO 3: Demonstrate competence in basic instrument playing skills.

CO 4: Exhibit knowledge of instructional methods as they pertain to choral, instrumental and general music education.

CO 5: Act as a means for enhancing self-esteem, respect for others and good citizenship.

Semester- III

Paper: Music Instrumental Theory & Practical

CO 1: Students will demonstrate the understanding and use of public performance as a means for engaging communities, creating cultural awareness and providing ethical leadership.

CO 2: Students will be able to perform as soloists, ensemble members, chamber musicians at appropriate levels for entering graduate music study and for teaching.

CO 3: Students will be able to create, analyse and synthesize music as a means of supporting developing careers in music teaching and/or performance (Theory and Musicianship).

CO 4: Students will be able to demonstrate teaching skills for individual studio and group settings for teaching and audience education purposes (Pedagogy).

CO 5: Describe the importance of a disciplined practice routine for musical success.

Semester- IV

Paper: Music InstrumentalTheory & Practical

CO 1: Read and perform music notation at an appropriate level.

CO 2: Demonstrate proper care and maintenance of their instrument.

CO 3: Demonstrate accurate tuning process for their instrument.

CO 4: Describe how to communicate musical ideas to performers.

CO 5: Demonstrate correct posture and body position required for instrument playing.

CO 6: Exhibit knowledge of instructional methods as they pertain to choral, instrumental and general music education.

CO 7: Act as a means for enhancing self-esteem, respect for others and good citizenship.

CO 8: Exhibit knowledge of current issues and trends in music education.

CO 9: Music uses one of the most powerful systems which can be used for the development of critical thinking skills in all students.

CO 10: Students will demonstrate an understanding of career options related to their area of specialization.

Semester- V

Paper: Music Instrumental Theory & Practical

CO 1: Demonstrate proper rehearsal and performance etiquette.

CO 2: Describe the traditional function of their instrument in the band or orchestra.

CO 3: Demonstrate mastery of the following major scales - (concert pitch) Band - C, F, Bb, Eb, Ab, Chromatic; Orchestra - D, G, C, F.

CO 4: Performance skills appropriate to the student's needs and interests including competence in sight reading and realizing a variety of musical styles.

CO 5: Demonstrate professional competence in performance including technical mastery, sight--reading and interpretive skills and artistic self-expression.

CO 6: Students will demonstrate the application of knowledge related to the history of music including various time periods, historical figures, styles and genres in musical traditions.

CO 7: Music has always played a major role in society. It exalts the human spirit and enhances the quality of life.

CO 8: One fundamental purpose of education is to transmit our cultural heritage and music is a powerful means for communicating that message.

CO 9: Demonstrate competence in musicianship, to include: aural skills, knowledge and application of music theory.

CO 10: Demonstrate competence in musical performance on his/her primary instrument with particular emphasis on technical precision.

CO 11: Demonstrate competence in basic instrument playing skills.

CO 12: Exhibit knowledge of instructional methods as they pertain to choral, instrumental and general music education.

CO 13: Act as a means for enhancing self-esteem, respect for others and good citizenship.

CO 14: Exhibit knowledge of current issues and trends in music education.

CO 15: Music uses one of the most powerful systems which can be used for the development of critical thinking skills in all students.

CO 16: Students will demonstrate an understanding of career options related to their area of specialization.

Semester- VI

Paper: Music Instrumental Theory & Practical

CO 1: Demonstrate competence in musicianship, to include: aural skills, knowledge and application of music theory.

CO 2: Demonstrate competence in musical performance on his/her primary instrument with particular emphasis on technical precision.

CO 3: Demonstrate competence in basic instrument playing skills.

CO 4: Music has always played a major role in society. It exalts the human spirit and enhances the quality of life.

CO 5: One fundamental purpose of education is to transmit our cultural heritage and music is a powerful means for communicating that message.

CO 6: Demonstrate competence in musicianship, to include: aural skills, knowledge and application of music theory.

CO 7: Demonstrate competence in musical performance on his/her primary instrument with particular emphasis on technical precision.

CO 8: Students will demonstrate the understanding and use of public performance as a means for engaging communities, creating cultural awarenessand providing ethical leadership.

CO 9: Students will be able to perform as soloists, ensemble members, chamber musicians at appropriate levels for entering graduate music study and for teaching.

CO 10: Students will be able to create, analyse and synthesize music as a means of supporting developing careers in music teaching and/or performance (Theory and Musicianship).

Department of Sociology

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Sociology

CO 1: It gives better idea and clarity about the basic concepts on which any society is based.

CO 2: Students get the knowledge about the relations that already exist.

CO 3: They learn about the basic rules and regulations of the society by following which they could gain respect and status in their own society.

CO 4: The social structure becomes visible to the students which are hidden to other layman eyes.

Semester-II

Paper: Sociology

CO 1: Students get better understanding of the processes that they have always been part of like the process of Socialization.

CO 2: Practical functioning of the culture and society becomes crystal clear to the students as residents of the society.

CO 3: They could identify the agencies through which a society controls its participants and this helps them in better working to survive.

CO 4: They get to recognize the different dimensions present in any society.

Semester-III

Paper: Sociology

CO 1: Students understand the social institutions in their deeper aspects. Relations, kinship, its types, rules and regulations - all are studied in such a way that they could observe everything more clearly in their practical life.

CO 2: They get to study various forms of society and its structures which let them have a clear sight of society in reality.

CO 3: This paper makes them more practical in getting knowledge about social system.

Semester-IV

Paper: Sociology

CO 1: This paper gives insight into the journey of social development.

CO 2: Students witness the history of society; how a society evolves and the processes through which a society passes through different phases.

CO 3: It keeps a tally of progress of Indian society clearly.

Semester-V

Paper: Sociology

CO 1: This paper is purely based on the thoughts of eminent Sociologists who have played significant role in developing Sociology as a separate subject.

CO 2: It gives brief account of various ideologies prominent in different societies and causes changes - peaceful or violent; progressive or depressive.

Semester-VI

Paper: Sociology

CO 1: As students are tend to move ahead for Masters level degree, this paper prepares them for upcoming prospects of research in their respective fields.

CO 2: It gives deep and detailed information about guidelines, procedure, means and modes required for any social researcher to conduct are search.

CO 3: The paper serves as a pre-research mini guide to any student who wishes to pursue her higher studies.

Department of History

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Ancient Indian History

After completing the course on Ancient Indian History, the student will be able to learn.

CO 1: How, when and where people first developed cultures. In terms of evolution, how they evolved from a primitive to a civilized man.

CO 2: Analyse the relationship in terms of society, economy, language and religion between past and present.

CO 3: To understand various aspects of architectural styles, literary writings and cultural facets of the ancient society.

CO 4: Understand the basic principles of administration in ancient India and study them in relevance to the contemporary times.

CO 5: Overall the student will study various aspects of Ancient Indian History from the Indus Valley Civilization to Vardhanas.

Semester-II

Paper: Medieval History of India (1000-1707 A.D)

Medieval India refers to a long period of History of Indian Subcontinent between Ancient and Modern period. After completing the course on Medieval Indian History, the student will be able to learn.

CO 1: The Rajput's contribution in the Medieval History of India. Various developments in the field of art, language, culture and religion.Emergence of Bhakti and Sufimovements.

CO 2: How early medieval period witnessed wars among regional kingdoms from North to South and late medieval period saw number of invasions by Mughals, Afghans and Turks.

CO 3: Understand the transition of European traders who by the end of 15^{th} century started doing trade and by 18^{th}century were a formidable political force.

CO 4: Analyse various administrative and cultural aspects of medieval India.

Semester-III

Paper: Modern Indian History (1707-1947A.D)

After the completion of the course the student will be able to learn.

CO 1: Understand the political fabric of India around 18^{th} century. How various dynasties and Kingdoms came in conflict with British.

CO 2: Analyse how British transformed the economic, political and social fabric of India. Was this transformation through acts or otherwise.

CO 3: The beginning of the freedom struggle in light of various movements starting from Swadeshi to Quit India Movement.

CO 4: Understand the emergence of socialist and communist movements in India.

CO 5: Saga of Partition and its consequences.

Semester-IV

Paper: History of Punjab (1469-1799A.D)

After the completion of the course the student will be able to learn.

CO 1: Understand the advent of Sikhism in Punjab and contributions of 10 Gurus towards development ofSikh panth.

CO 2: Analyse the role played by Banda Singh Bahdur and other brave Sikh generals in the Sikh History.

CO 3: Study the emergence of Dal Khalsa and Misls. Also the character and contribution of Ranjit Singh.

CO 4: Understand the political, social, economic, and religious conditions of Punjab and its comparative analyses with contemporary times.

Semester-V

Paper: World History

After the completion of the course the student will be able to learn.

CO 1: Study of World History is the broadest and most comprehensive approach to the question of who we are as both, individual and members of the group.

CO 2: Causes and impact of major revolutions of the world.

CO 3: Evaluate the genesis and consequences of two world wars.

CO 4: Analyse the emergence of political leadership in China and Japan.

CO 5: Understand the emergence of NATO, Warsaw Pact, League of Nations and U.N and role of U.N in the Contemporary World.

Semester-VI

Paper: History of Punjab (1799-1966A.D)

After the completion of the course the student will be able to learn.

CO 1: How Ranjit was able to establish a strong Lahore province and an efficient administration.

CO 2: Emergence of various social reform movements and the role played by Punjabi's in the freedom struggle.

CO 3: The saga of partition of Punjab and the rehabilitation process of the refugees.

CO 4: Evolution of Punjabi suba in 1966.

Department of Physical Education

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: A Practical

CO 1: Student taught regarding physical education and his importance in life.

CO 2: Students also come to know about physical training and coaching.

CO 3: They also taught about rules of athletics, 100m and shot put and volleyball and cricket.

Paper: B Practical

CO 1: Students are taught about development of physical education and sports in India and about sports schemes like N.S.N.I.S., SAI.

CO 2: They also taught about games like Olympic, Ancient, Modern , Common wealth and Asian games.

CO 3: They also taught about rules of athletics, 100m and shot put and volleyball and cricket.

Semester-II

Paper: A Practical

CO 1: Students are taught about systems of body like skeletal system, muscular system, digestive system, and about human cell or movement and joints of body.

CO 2: They are able to understand the rules of athletics, 100m race and long jump, hand ball and Kho-Kho,

Paper: B Practical

CO 1: Students are imparted knowledge about health education, personal hygiene and communicable diseases.

CO 2: They are also taught about rules of athletics,100m race and long jump, hand ball and Kho-Kho

Semester-III

Paper: A Practical

CO 1: Students are taught about the effects of psychological factors on sports performance.

CO 2: They are able to understand the rules of athletics, 200m race, discuss throw, football and yoga.

Paper: B Practical

CO 1: Students are taught about sports and economy.

CO 2: They are able to understand the rules of athletics,200m race, discuss throw, football and yoga.

Semester-IV

Paper: A Practical

CO 1: Students are taught about yoga and its importance and how yoga effects the body.

CO 2: They are able to understand the rules of athletics, 200m race, high jump,hockey and wrestling.

Paper: B Practical

CO 1: Students are imparted knowledge about body systems and sports injuries.

CO 2: They are able to understand the rules of athletics,200m race, high jump,hockey and wrestling.

Semester-V

Paper: A Practical

CO 1: Students are made aware about recreation and its importance also they are taught about biomechanical laws.

CO 2: They are also taught about rules of athletics, 800m race, tripple jump, basketball and judo.

Paper: B (Practical)

CO 1: Students are taught about body postures and importance of warming up and cooling down in sports

CO 2: They learn the rules of athletics, 800m race, tripple jump,basketball and judo.

Semester-VI

Paper: A Practical

CO 1: Students will get knowledge about tournaments and how to draw fixture of tournaments.

CO 2: They learn the rules of athletics, 1500m race, javelin throw, kabaddi and badminton

Paper- B Practical

CO 1: Students will get knowledge about therapeutic exercises, joints, muscles, component of physical fitness.

CO 2: They are also taught about rules of athletics, 1500m race, javelin throw, kabaddi and badminton.

Name of Programme: B.P.E.S

Course Outcomes

First Year

Paper: 1:Introduction of Physical education

CO 1: Students are taught regarding physical education and his importance in life.
CO 2: They come to know about history of physical education.
CO 3: They get knowledge about modern trends of physical education.

Paper: 2: General Science

CO 1: Students are taught about living and non-living things, animal and plants reproductions.
CO 2: They will understand the basic concepts, sources and importance of air and water.
CO 3: They will learn about biomechanics.
CO 4: They are made aware about metals, non-metals, heat and light.
CO 5: They understand the importance of various nutritional aspects of the diet.

Paper: 3: Anatomy and physiology

CO 1: Students are taught about systems of body and its functions.
CO 2: They get knowledge about joints, their movements and different bones and their functions.
CO 3: They study about human systems and function
CO 4: They become able to understand the importance of anatomy and physiology in physical education.

Paper: 4: Health Education

CO 1: Students learn about health education and personal hygiene.
CO 2: They are taught about removal of body waste.
CO 3: They study about physic-medical examination.
CO 4: They get knowledge about community health service.

Paper: 5: Social Science

CO 1: Students are taught about meaning of civics, history, political science, economics, and sociology.
CO 2: They learn about physical features of India.
CO 3: They understand regional division of India.
CO 4: They study the conquests and annexations of Maharaja Ranjit Singh

Paper: 6: Practical of Athletics

CO 1: Students are taught about rules of athletics events -: 1 sprints, 100mt. hurdles, long jump, high jump, shot put.

Paper: 7:Practical of games

CO 1: Students are taught about rules of volley ball,hockey, Kho-Kho, wrestling,judo and badminton.

Paper: 8:Practical on skill in formal activity

CO 1: Students are taught about rhythmic gymnastics, drill and marching.

Department of Economics

B.A. (Bachelor of Arts)

Semester- I

Paper: Micro Economics

The students will be able to:

CO 1: understand the concepts of opportunity cost, trade-offs, benefits of exchange and important terms and principles of single entities.
CO 2: gain the knowledge of laws of supply and demand and producers' equilibrium; and apply the supply and demand model to analyse responses of markets.
CO 3: apply supply and demand analysis to examine the impact of government regulations.
CO 4: calculate price elasticity of demand and other elasticities.

CO 5: understand the concept of producer choice, including cost, revenue and break-even analysis.
CO 6: compare and contrast market structures, including perfect competition, monopoly and monopolistic competition.
CO 7: apply microeconomic principles and models to address market failures and to describe policy matters.
CO 8: gain the knowledge of marginal productivity theory of distribution, theory of wages, identify different types of rent and grasp different theories of rent, interest and profits.

Semester-II

Paper: Indian Economy

The students will be able to:

CO 1: know the development process in India after independence.
CO 2: identify and analyse current issues in economic scenario.
CO 3: develop ideas of the basic characteristics of Indian economy, its potential and different resources.
CO 4: develop a perspective on the different economic problems in India.
CO 5: understand the role of the Indian Economy in the global context.
CO 6: understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
CO 7: grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the on-going planning and economic reforms taken by the government.
CO 8: understand agriculture as the foundation of economic growth, analyse the progress and changing nature of agricultural sector and its contribution to the economy as a whole.
CO 9: identify the role and contribution of secondary and tertiary sectors in the growth process of the economy.

Semester-III

Paper: Macro Economics

CO 1: In Macro Economics, students study about maximum level of income and employment in a country.
CO 2: Students learn about inflation and deflation.
CO 3: They learn about recession.
CO 4: Students know about national income and collection, organization and analysis of data.
CO 5: Students study about inflation and unemployment.

Semester- IV

Paper: International Economics and Public Finance

CO 1: In this subject students study about international trade and its benefits for mankind.
CO 2: They study about gains from trade and economic development due to trade.
CO 3: They study about free trade and protection policy.
CO 4: They learn about WTO and GATT.
CO 5: They get knowledge about nature and scope of public finance and Taxes.

Semester-V

Paper: Economics of Development

The students will be able to:

CO 1: know about central themes, essential tools and concepts of development economics.
CO 2: understand what makes underdevelopment persist and what helps development succeed.
CO 3: understand the difference between growth and development.
CO 4: analyse contemporary economic development issues.

CO5: analyse major growth theories, the measurement of inequality,significance of agriculture in developing countries, poverty and population issues facing the world, capital formation, technical progress, international trade and importance of foreign aid.

CO 6: analyse empirical evidence on the patterns of economic development.

CO 7: engage in critical thinking through the comparative assessment of economic development models and policy frameworks.

CO 8: have the knowledge and skills to evaluate economic problems of developing countries and to effectively participate in the contemporary policy debate on development priorities and policy reforms in these countries.

Semester-VI

Paper: Quantitative Methods for Economists

Students will be able to understand:

CO 1: the concept of sets, illustrate and apply basic set operations.

CO 2: the rules for calculating derivatives, uses and application in calculating inter-relationship among total, marginal and average cost and revenue, calculate maxima, minima, elasticity, decide the optimal level of production for a firm.

CO 3: the concepts and use of functions, limits and continuity.

CO 4: the matrix operation, minors, cofactors, inverse of a matrix, matrix method, Cramer's rule to solve system of equations.

CO 5: the concept of statistical averages, use and apply measures of central tendency, dispersion, skewness and kurtosis.

CO 6: the concept of correlation, analyse and interpret covariance and correlation coefficient.

CO 7: use of regression analysis to analyse the underlying relationships between the variables and estimate regression coefficients.

CO 8: the components of time series and apply time series analysis.

CO 9: the different types of index numbers and calculate index numbers.

CO 10: the use and calculation of interpolation and extrapolation.

Name of Programme: B.A. / B.Sc. Economics

Course Outcomes

Quantitative Techniques

Semester-II

Paper: Quantitative Techniques-II

Students will be able to:

CO 1: understand the role, scope and functions of quantitative techniques.

CO 2: understand basic statistical concepts such as data collection, classification, statistical series and tabular, diagrammatic and graphical representation of data.

CO 3: describe the concept of statistical averages, use and apply measures of central tendency, dispersion, skewness and kurtosis.

CO 4: grasp the concept of correlation, analyse and interpret covariance and correlation coefficient.

CO 5: know the use of regression analysis to analyse the underlying relationships between the variables and estimate regression coefficients.

CO 6: Describe the components of time series and apply time series analysis in business scenarios.

CO 7: Know about the different types of index numbers and calculate index numbers.

Semester- III

Paper: Quantitative Techniques-III

Students will be able to:

CO 1: understand Maxima and Minima of function.
CO 2: apply Maxima and Minima to solve various economic applications.
CO 3: apply integration in Consumer surplus and Producer surplus.
CO 4: understand the concept of matrices.
CO 5: solve Simultaneous system of equations using Crammer's rule and Matrix Inverse method.
CO 6: understand the linear programming using Graphic and Simplex method.
CO 7: understand the concept of Input output model.

Semester- IV

Paper: Quantitative Techniques-IV

Students will be able to:

CO 1: understand Multiple Linear Regression
CO 2: understand Partial and Multiple Correlation.
CO 3: understand Non-Linear Regression and able to estimatethe fitting of various growth curves.
CO 4: solve applications of probability based on addition, multiplication and Bayes theorem of probability.
CO 5: understand concept of Random Variable, Probability Mass Function and Density Function, Mathematical Expectation (meaning and properties), Moments, Moment Generating Function and Characteristic Function.
CO 6: understand Theoretical Probability Distributions: Binomial, Poisson,Normal, Beta and Gamma distributions.
CO 7: know about various concepts of sampling.

Semester-V

Paper: Quantitative Techniques-V

Students will be able to:

CO 1: understand and apply probability theory and theoretical probability distributions in economic applications.
CO 2: use sample statistics to test hypothesis regarding population and estimate the population parameters and to make judgments about the population.
CO 3: present an economic argument in quantitative terms and develop ability to solve it.

Semester-VI

Paper: Quantitative Techniques-VI

Students will be able to:

CO1: develop the understanding of regression analysis, detection of various problems associated with it such as autocorrelation, multicollinearity, heteroscedasticity along with their consequences and remedies.
CO2: apply econometric methods like autoregressive distributed lag models to different economic theories.
CO3: understand the concept of dummy variable and its application in different economic situations.

Name of Programme: B.A. / BSc. Economics with Honours

Semester- III

Paper: I Money and Banking

CO 1: In this subject, students learn about Functions of money.

CO 2: They know about price rise or fall i.e. inflation, deflation.

CO 3: Students study about use of monetary policy to bring stability in the economy.

CO 4: They study about functions of central bank.

CO 5: They also learn about commercial banks.

Semester-IV

Paper: IV International Economics

CO 1: By studying international trade, students study about internal trade.

CO 2: Students learn about growth of trade.

CO 3: The get knowledge about terms of trade.

CO 4: Students study about balance of payments.

Semester- V

Paper: II Public Finance

Students will be able to:

CO 1: understand the sources of public finance both public and private.

CO 2: understand the classification, advantages, effects and knowledge of public expenditures.

CO 3: understand the causes of growing public expenditures for various programmes and policies within and outside the country.

CO 4: understand theories of public revenue.

CO 5: understand the burden, benefits and distribution of various types of taxes among various sections of people.

CO 6: understand the concept of good and bad tax system.

CO 7: know about the needs of public borrowing.

CO 8: understand the role, burden and management of public debt.

CO 9: understand incidence and impact of taxation.

Semester- VI

Paper: VI Economics of Agriculture

Students will be able to:

CO 1: realize the need to exploit and utilize through development and improvement of production techniques.

CO 2: make them aware and understand about limited resources available in the economy, about availability of rich natural endowments to achieve sustainable agricultural development.

CO 3: understand inter dependence of agriculture and industry

CO 4: understand different resources in agriculture and their characteristics.

CO 5: gain knowledge of the causes of regional variations in productivity and production, social and economic inequality, size of land holdings and lack of quality inputs etc. and suggest appropriate measures for the whole economy.

CO 6: understand recent agriculture policy of India.

Name of Programme: B.Com.

Course Outcomes

Semester- I

Paper: BCG-106 Business Statistics

Students will be able to:

CO1: understand meaning of statistics, basic statistical concepts and relevance of statistics in business.

CO 2: understand, calculate and interpret descriptive statistics such as measures of central tendency, dispersion, asymmetry, correlation, regression analysis, time series analysis and index numbers.

CO 3: understand and apply probability theory and theoretical probability distributions in business.

CO 4: develop understanding of various types of probability and non-probability sampling techniques

Semester- II

Paper: BCG-205 Business Economics

Students will be able to:

CO 1: understand the concept of demand, law of demand along with its exceptions.

CO 2: calculate elasticity of demand under different market conditions and develop knowledge regarding its significance in business, trade and government policies.

CO 3: understand and determine consumers' equilibrium, consumers surplus.

CO 4: understand that how markets work to allocate resources and the optimal individual decision-making that underlies market outcomes.

CO5: identify various market structures and discuss their implications for resource allocation.

Name of Programme: BBA

Semester-I

Paper: BBA-105 Managerial Economics-I

CO 1: Students study about definition of economics and its nature and scope.

CO 2: They get knowledge about law of demand and the concept of elasticity of demand.

CO 3: They study about methods of measurement of elasticity and cost curves.

CO 4: They get knowledge about Revenue curves.

CO 5: Students study and learn about different market forms e.g. perfect competition, monopoly etc.

Semester-II

Paper: BBA-205 Managerial Economics-II

CO 1: By studying this subject students understand nature and scope of macroeconomics.

CO 2: They learn about consumption function and psychological law of consumption

CO 3: Students study about investment and its types.

CO 4: Students learn about national income and the methods of its measurement and limitations etc.

Semester-III

Paper: BBA-303 Statistics for Business

Students will be able to:

CO 1: demonstrate the role, scope and functions of statistics in the field of business/industry.

CO 2: illustrate matrix operations, determinants, minors, cofactors, inverse of a matrix, matrix method, Cramer's rule to solve system of equations and rank of a matrix.

CO 3: understand basic statistical concepts such as data collection, classification, statistical series, tabular, diagrammatic and graphical representation of data.

CO 4: describe the concept of statistical averages, use and apply measures of central tendency, dispersion skewness and kurtosis.

CO 5: grasp the concept of correlation, analyze and interpret covariance and correlation coefficient.

CO 6: use regression analysis to analyse the underlying relationships between the variables and estimate regression coefficients.
CO 7: describe the components of time series, apply time series analysis in business scenarios.
CO 8: know about the different types of index numbers and calculate index numbers.
CO 9: understand the different types of probability and non-probability sampling.
CO 10: demonstrate the basic concepts of probability, theoretical distributions, probability theorems, solve probability problems by applying probability concepts.

Name of Programme: B.Voc. (Banking and Financial Services)
Course Outcomes
Semester–II
Paper: BVC-203 Managerial Economics
Students will be able to:
CO 1: understand the basic concepts, nature and scope of managerial economics.
CO 2: understand fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.
CO 3: understand the meaning, determinants, exceptions, kinds of demand, change in demand and its importance.
CO 4: understand the elasticity of demand, its meaning, types, degrees, methods of measuring, factors determining elasticity of demand and its importance.
CO 5: understand the concept of indifference curve.
CO 6: know about production function, economies and diseconomies of scale.
CO 7: understand traditional and modern theory of costs.
CO 8: understand different markets structure, their characteristics and short and long run equilibrium.
CO 9: understand concept and various methods to measure national income.
CO 10:understand the concept of consumption function
CO 11:know about inflation its meaning, types, theories, causes, effects and control.

Name of Programme: B.Voc. (Banking and Financial Services)
Course Outcomes
Semester–III
Paper: BVC-301 Business Statistics
CO 1: Students attain the knowledge about functions, scope and limitations of statistics.
CO 2: They understand types of averages – Arithmetic Mean (Simple and Weighted), Median and Mode.
CO 3: They understand the Measures of Dispersion.
CO 4: Know about simple Correlation and Regression.
CO 5: Understand both weighted and unweightedIndex Numbers.
CO 6: Estimate trends using graphical method, semi averagemethod, moving averages method and method of least squares for linear path.
CO 7: To solve simple applications of Probability based on addition and multiplication theorem of probability.

Name of Programme: B.Sc. (Bio- Technology)

Course Outcomes

Semester- II

Paper: BT-5 Bioinformatics

Students will be able to:

CO 1: understands the concept of measures of central tendency.

CO 2: understand dispersion and its co-efficient, variance and covariance of data.

CO 3: understand methods of correlation.

CO 4: understand how to determine regression lines.

CO 5: understand the basic concepts of probability, addition, multiplication and Bayes theorem and their application.

CO 6: state hypotheses for a chi-square test of goodness-of-fit and for a chi-square test for association.

CO 7: calculate Chi-square test of goodness of fit and Chi-square test for association.

Name of Programme: M.Com.

Course Outcomes

Semester- I

Paper: MC-102 Statistical Analysis for Business

Students will be able to:

CO 1: understand process of collection of primary and secondary data, and their sources.

CO 2: develop understanding of various types of probability and non-probability sampling techniques,and the importance of randomization.

CO 3: understand and apply probability theory and theoretical probability distributions in business and research.

CO 4: have adequate knowledge about designing questionnaire, conducting pilot survey and pre testing of questionnaire.

CO 5: use sample statistics to test the hypothesis regarding population and estimate the population parameters and to make judgments about the population especially in business context.

CO 6: select appropriate statistical techniques for summarizing, displaying, analysing and interpreting business data.

CO7: conduct correlation analysis, assess its significance and critically analyse and interpret it.

Semester-I

Paper: MC-101 Managerial Economics

CO 1: By studying this subject, students know about nature and scope of managerial economics.

CO 2: They study about cost and Revenue curves.

CO 3: Students study about utility analysis, ordinal analysis and revealed preference analysis.

CO 4: Students are benefitted by studying about different market forms.

CO 5: They learn about consumption, National income and inflation, CPI, WPI etc.

Semester-II

Paper: MC-203 Research Methodology

Students will be able to:

CO 1: critically assess and select appropriate research problem, design and research process to achieve research objective.

CO 2: assess critically various methods like literature study, case study, structured surveys,in depth interviews, focus group interviews.

CO 3: have adequate knowledge on types of scales as well as measurement and scaling techniques.

CO 4: understand process of collection, processing, editing of data.

CO 5: calculate, present, and discuss descriptive and inferential statistics.
CO 6: understand, evaluate and apply multivariate analysis techniques such as regression analysis, factor analysis, discriminant and logistic analysis.

Name of Programme: M.Sc. (Fashion Designing)

Course Outcomes

Semester- III

Paper: Research Methodology

Students will be able to:

CO 1: understand a general definition of research design.
CO 2: know why educational research is undertaken, and the beneficiaries that gain from research studies.
CO 3: identify the overall process of designing a research study from its inception to its report.
CO 4: be familiar with ethical issues in educational research.
CO 5: know the primary characteristics of quantitative research and qualitative research.
CO 6: identify a research problem stated in a study.
CO 7: be familiar with how to write a good introduction to a research study.
CO 8: be familiar with conducting a literature review.
CO 9: define the meaning of a variable, and identify independent and dependent variables.
CO 10: know about primary and secondary data,and the steps in the process of quantitative data collection.
CO 11: understand data processing and its problems.
CO 12: design a good quantitative purpose statement, research questions and hypotheses.
CO 13: know how to undertake measurement and scaling.
CO 14: understand sampling fundamentals and sampling designs.
CO 15: know the types of data analysis used in research studies and the interpretation of results.
CO 16: know how to conduct a statistical test of a hypothesis.
CO 17: know the conventions with good APA style for scholarly writing.

Name of Programme: M.Sc. (Bioinformatics)

Course Outcomes

Semester-I

Paper: Basic Bioinformatics

Students will be able to:

CO 1: understand how to represent data using histogram, polygons and frequency curves.
CO 2: understands the concept of measures of central tendency mean, median and mode.
CO 3: understand dispersion and its co-efficient, variance of data.
CO 4: understand methods of correlation.
CO 5: understand how to determine regression lines.
CO 6: learn statistical sampling from population.
CO 7: understand the basic concepts of probability.
CO 8: understand addition, multiplication and Bayes theorem and their application.
CO 9: understand probability mass function, probability density function.
CO 10: understand the concepts of Binomial and Poisson distribution.
CO 11: state hypotheses for a Fischer test, Student t-test, ANOVA, chi-square goodness-of-fit and for a chi-square test for association.
CO 12: calculate and interpret Fischer test, Student's t-test, ANOVA and Chi-square test.

Name of Programme: M.A. Journalism and Mass Communication
Semester- II
Students will be able to:
CO1: develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling in general as well as in case of journalism and media particularly.
CO 2: critically assess and select appropriate research problem, design and research process to achieve research objective.
CO 3: understand the concept and types of variable, scales as well as use of validity and reliability in research.
CO 4: calculate, present, and discuss descriptive statistics.
CO 5: develop understanding of various types of probability and non-probability sampling techniques.
CO 6: understand types of qualitative data and practices involved in conducting qualitative research particularly in case of media.
CO 7: develop scholarly writing skills for synopsis, research paper and report writing.

Name of Programme: Advance Diploma in Fashion Designing
Semester- IV
Paper: Export Import Management
Students will be able to:
CO 1: identify the strategies and cases of export import business.
CO 2: analyze procedures and processes in export import business.
CO 3: communicate effectively using basic internationalbusiness vocabulary with specific emphasis on terms associated with international trade and import export operations.
CO 4: select between common modes of export in order to fit the business needs of exporting organizations.
CO 5: identify sources of information on export restrictions associated with foreign shipping in order to facilitate export compliance for the exporting organization.
CO 6: assessment of export opportunities and international markets analysis.
CO 7: contacting and dealing efficiently and effectively within the environment of multinational cultures.
CO 8: applying payment methods and financing in the area of exports.
CO 9: acquainting with documents and logistics system in export and import.
CO 10: developing export-marketing programs, product development, promotions, pricing and distribution.
CO 11: acquiring knowledge in transportation, shipping and insurance methods in international trade.
CO 12: developing commercial negotiation skills.
CO 13: understanding conditions and merits of international trade agreements.

Department of Psychology

Name of Programme: B.A. (Bachelor of Arts)
Course Outcomes
Semester-I &II
Paper: Psychology
CO 1: Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
CO 2: Students will understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
CO 3: Students will respect and use critical and creative thinking, skeptical inquiry and the scientific

approach to solve problems related to behavior and mental processes.

CO 4: Students will understand and apply psychological principles to personal, social, and organizational issues.

CO 5: Students will be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline.

CO 6: Students will recognize, understand, and respect the complexity of sociocultural and international diversity.

Semester-III &IV

Paper: Experimental Psychology

CO 1: Students will have the opportunity to develop a deep understanding and broad knowledge of the general theoretical and scientific principles of psychology.

CO 2: Students will acquire in-depth knowledge in specialized areas of their subject.

CO 3: They will have the opportunity to acquire and demonstrate bibliographic skills to search out information appropriate to a particular topic.

CO 4: They will have experience in compiling written reviews of key topics in psychology in which they will be expected to have knowledge, depth of understanding, and a critical appreciation of the strengths and weaknesses of theoretical claims and research evidence or conceptual argument.

CO 5: They will have the opportunity to discuss in detail aspects of research or enquiry.

Semester-V &VI

Paper: Abnormal Psychology

Upon successful completion, students will have the knowledge and skills and should be able to:

CO 1: identify and describe major terms and concepts in abnormal psychology.

CO 2: describe and apply major theories of abnormal psychology.

CO 3: describe the symptomatology associated with major mental disorders and apply to case examples.

CO 4: think critically about issues and changes in psychiatric nomenclature.

CO 5: think critically about ethical, legal, cultural and contemporary topics in abnormalpsychology.

CO 6: demonstrate preliminary knowledge of the main empirically based approaches available to treat or manage the conditions covered in the course.

Name of Programme:B.A. Psychology with Honours

Course Outcomes

Semester-III

Paper: History and Schools of Psychology

After completing the course, the students will be able to:

CO 1: discuss the philosophical and scientific foundations of psychology.

CO 2: critically examine problems, questions, and assumptions of various schools of thought such as functionalism, psychoanalysis, behaviourism, and Gestalt, humanistic and experimental psychology.

CO 3: compare Eastern and Western philosophical and intellectual traditions from antiquity with contemporary thought on human relationships.

CO 4: describe the philosophical implications of mind-body interaction for psychology as a science.

CO 5: develop deeper understanding and insight into the origin and contents of various school of thoughts and the ability to critically analyse.

Semester-IV

Paper: Social Psychology

After completing the course, the students will be able to:

CO 1: demonstrate in an applied context a systematic understanding of the behaviour of the individual in social interaction.

CO 2: examine critically the explanations for the occurrence of certain kinds of social behaviour.
CO 3: critically apply social psychological principles to social problems and issues.
CO 4: identify both theoretical and practical methodological issues central to social psychological research.

Semester-V

Paper: Psychological testing

CO 1: The goal of this paper is to support students in building a thorough understanding of the development and use of psychological tests. This aim includes an understanding of the application of such tests in the education, counselling, and business sectors.
CO 2: At the end of this course, students will be able to demonstrate knowledge:

- How psychological tests are developed.
- How psychological tests are evaluated.
- About the characteristics and purposes of the major psychological tests used in education, clinical and counselling practice, and business.
- About ethics and laws pertaining to the use of psychological tests.

Semester-VI

Paper: Applied Psychology

CO 1: To produce graduates with effective interpersonal skills who can work in a variety of practical settings.
CO 2: To enable students to obtain the knowledge and skills necessary for immediate employment and/or graduate study in psychology and related areas.
CO 3: To provide opportunities for students who wish to apply psychology training to employment in business and human service related organizations or to prepare for graduate programs in related areas.
CO 4: Demonstrate foundational knowledge and comprehension of applied psychology subject matter through examination or learning portfolio.
CO 5: Mentor students' by providing opportunity and instruction in basic and applied psychology through civic and community engagement, as well as allied health and service professions
CO 6: Instill cooperative learning strategies that enable students to participate effectively in group projects and in circumstances surrounding employment

Name of Programme: B.Voc. (Mental Health Counselling)

Semester-I

Paper: Mental Health Counselling

CO 1: Students will show knowledge and understanding of the clinical mental health counselling profession as well as the basics of legal and ethical practice.
CO 2: They will acquire knowledge, awareness, and skills related to counselling work with diverse groups both nationally and internationally.
CO 3: They will be able to demonstrate knowledge and skills related to building, maintaining, and utilizing counselling relationships to address mental health issues and meet client goals.
CO 4: They will get knowledge and understanding of career development, assessment, and planning for clients.
CO 5: They will become competent to show understanding and competency with group counselling.
CO 6: They will understand and demonstrate competency with counselling assessments, including knowledge of types of assessments, statistical concepts, and the use of assessment tools.
CO 7: They will study the significance of research in informing counselling practice, and demonstrate the

ability to critically evaluate available research to inform their own counselling work.

CO 8: They will become capable to understand the specific roles, settings, and practices related to clinical mental health counselling, including but not limited to diagnosis, treatment modalities, documentation, collaboration with other professionals, and advocacy.

CO 9: Learners will demonstrate skill in the assessment and treatment of clients in their clinical experiences of practicum and internship.

Paper: Techniques of Appraisal for Counselling

CO 1: Students will show knowledge and understanding of psychological testing, and psychological assessment along with the purpose.

CO 2:They will have knowledge on career assessment related to interest, personality and values.

CO 3: They will understand the various aspects of career development, assessment, and planning for clients.

CO 4: They will understand the purpose and uses of a variety of tests along with the limitations of testing and assessment.

CO 5: They will become capable to understand and demonstrate competency with counselling assessments, including knowledgeof types of assessments, statistical concepts, and the use of assessment tools.

CO 6: They will study the development and use of psychological tests i.e. application of tests in education and counselling.

CO 7: They will understand the legal and ethical issues in psychological testing and internship.

Paper: Approaches to Counselling

CO 1: Students will become familiar with the major counselling approaches categorized as humanistic, experiential, learning/cognitive, and psychoanalytic/psychodynamic

CO 2: They will become able to critically examine different approaches to counselling andunderstanding of theoretical frameworks.

CO 3: They will understand the link between theory and practice and will be able to arrive at their own personal orientation to counselling.

CO 4: They will be able to demonstrate knowledge of the therapist's role and the values by which the therapist conducts counselling.

CO 5:They will study the core premises of psychodynamic therapy such as transference, countertransference, resistance, and interpret.

Semester-II

Paper: Child Psychopathology

CO 1: Detailed understanding of disorders seen in infancy, childhood and adolescence according to the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).

CO 2: Students will gain understanding of key principles relevant to conducting psychological assessments with children /adolescents and their families for formulation, diagnosis and treatment planning.

CO 3: Knowledge of theoretical frameworks for conceptualising child development and behaviour is developed while ensuring that students understand "normal" child development and the importance of taking a developmental perspective

CO 4: They will be able to describe the role of early experiences in shaping children's development and behaviour

CO 5: They will study possible diagnoses and differential diagnoses.

CO 6: They will learn to develop a comprehensive case formulation and treatment plan.

Paper: Counselling Applications

CO 1: Learners will develop knowledge of the core theoretical areas, major models, and basic techniques of counselling and psychology.

CO 2: Describe and demonstrate theories and methods of cognitive and personality assessment.

CO 3: They will understand the link between theory and practice and arrive at their own personal orientation to counselling

CO 4: Students will understand the philosophical underpinnings of the major counselling theories.

CO 5: They will be able to identify primary intervention techniques of the major counselling theories.

CO 6: Students will become familiar with counselling skills that are used across most forms of psychotherapy (e.g. self-disclosure; empathy; confrontation).

CO 7: They will be able to identify the differences among 'following' (i.e., non-directive) counsellor responses.

CO 8: They will be able to identify the differences among 'leading' (i.e., probes) counsellor responses.

Paper: Practicing Individual Counselling Skills and Techniques

CO 1: Students develop an understanding of the historical development of the counselling profession and an
applied understanding of counselling skills.

CO 2: Students' self-awareness of the values, attitudes and biases is fundamental in the development of effective counselling skills.

CO 3: Students will able to understand the process of assessment and establishing the counselling relationship.

CO 4: The counselling relationship is an important means of facilitating change and growth. Understanding of the stages of counselling provides a framework for practicing new skills. Students will learn how they can assist clients to achieve positive outcomes and increase their self-understanding.

Semester-III

Paper: Substance Abuse (Problem and Consequences)

CO 1: Students will be able identify sociological factors associated with alcohol and drug abuse.

CO 2: They will study physiological/medical factors associated with substance abuse.

CO 3: They will get knowledge regarding the impact of substance abuse on the community, family and individual.

CO 4: They will be able to describe the term addition and explain various theories of causation.

CO 5: They will study the bio psychosocial assessment of client.

CO 6: They will learn to assess and analyse the techniques used by professionals in the field of substance abuse.

CO 7: Learners will become able to prepare a professional assessment plan.

CO 8: They will study different theories related to etiology of addiction.

CO 9: They will have understanding of medical and behavioural model of addiction.

Paper: Classification of Psychotropic Drugs and Their Treatment

CO 1: Students will learn to distinguish the actions of psychoactive drugs as they affect the body.

CO 2: They will develop deep understanding to types of drugs

CO 3: They will have knowledge to define the routes of administration, methods of ingestion, tolerance, withdrawal and interactions of these drugs with other psychoactive and non-psychoactive drugs.

CO 4: They will be able to evaluate the signs and symptoms associated with the different classifications of psychoactive chemicals.

CO 5: They will study the concepts of use, misuse, abuse, dependence, withdrawal, and overdose/toxicity.

CO 6: Learners will develop understanding of management and treatment of drug abused.

Paper: HIV/AIDS Counselling

CO 1: Students will understand the basic facts of HIV and AIDS (means of transmission, types of tests, CD4 count, viral load.
CO 2: They will study the social, behavioural, gender and cultural drivers of the HIV pandemic.
CO 3: They will acquire knowledge regarding the contents of HIV pre- and HIV post-test counselling sessions.
CO 4: They study the goals of ART and how antiretroviral work.
CO 5: They are taught regarding importance of antiretroviral adherence and the contents of adherence counselling.
CO 6: They will be able to study the disclosure, types of disclosure and disclosure counselling.
CO 7: They have knowledge about stigma, types of stigma and DE stigmatisation.
CO 8: Learners will study the psycho-social needs and challenges of living with a chronic disease.

Department of Political Science

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Principles of Political Science

CO 1: To understand the modern and traditional view point of normative and realistic approach
CO 2: To understand the relationship of Political Science with other subjects like Economics, History, Sociology and Psychology
CO 3: To discuss the origin of state and about the elements of state.
CO 4: Discuss the social contract theory Hobbes, Locke and Rousseau and evolutionary theory and liberal, Marxian and Gandhian views of state.
CO 4: Welfare State: Concept and Functions of Welfare State.
CO 5: Analyzing electorates and electoral Systems.

Semester-II

Paper: Modern political theory

CO 1: Understanding political system: its meaning, characteristics and Functions, political culture characteristics and its types, political socializations different agencies.
CO 2: To understand the rights and duties, universal declaration of Human Rights
CO 3: To examine the environmental Protection: issue and efforts made at national and international level to protect environment
CO 4: To understand the concepts of liberty, justice, equality and democracy

Semester-III

Paper: Indian constitution

CO 1: Understanding the making of constitution
CO 2: Examining Indian federalism through Centre-state relations.
CO 3: Evaluating the structures of government at the National level.
CO 4: Evaluating the structures of government at the State level.
CO 5: Describe the salient features of the Indian Constitution
CO 6: Explain different ways of acquiring Indian Citizenship
CO 7: List the Fundamental Rights and Fundamental Duties of Indian citizens
CO 8: Describe the Directive Principles of State Policy and their significance
CO 9: Detailed study of High Court and Supreme Court in India.

Semester-IV

Paper: Indian Political System

CO 1: Examining the role of Political parties in Indian Democracy.

CO 2: Studying the Election Commission and electoral process in India.

CO 3: Studying the process of interaction between society and politics in contemporary India-Caste, tribe and religion.

CO 4: Creating awareness about social movements and empowerment related to women.

CO 5: Examining the role of Political parties in Indian Democracy.

CO 6: Studying the Election Commission and electoral process in India.

Semester-V

Paper: Comparative Political Systems (UK & USA)

CO 1: Discuss the theory and apply the methodology of comparative analysis within the discipline of political science.

CO 2: Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.

CO 3: Write an analysis of the institutions, political behaviour and political ideas of another country comparing these attributes to the U.S. and U.K model.

Semester–VI

Paper: International Politics: Theory and Practice

CO 1: Demonstrate an understanding of: the key historical events which shaped the international system in the 20th century, the basic structures of the contemporary international system; and the key actors, institutions and their functions.

CO 2: Describe the role of individual and cultural values and perceptions, and the importance of empirical evidence in analyzing international problems.

Name of Programme: B.A. with Honours

Course Outcomes

Semester-III

Paper: Public Administration

CO 1: Knowledge about scope of public administration and Utility, difference between public and private administration.

CO 2: To understand the theory of Hierarchy; unity of command, coordination and delegated legislation, concept of Good Governance

CO 3: To get the information about functioning of civil services: recruitment and training and their role in nation building

CO 4: To understand the process passing budget and sound budgetary system in Indian parliamentary control

Semester-IV

Paper: Indian Foreign Policy

CO 1: Identify the names and geographic location of most contemporary states.

CO 2: Demonstrate an understanding of the key historical events which shaped the international system in the 20th century, the basic structures of countries and the key actors, institutions and their functions.

CO 3: Discuss the main international relations theories, and the values implicit in each of these different ways of looking at the world, thus giving them the tools necessary to understand the day-to-day events reported in the media.

Semester-V

Paper: Indian Political Thinkers

CO 1: Knowledge about Mahatma Gandhi ji working process of Ideal State, Satyagraha, Non–Violence and Theory of Trusteeship

CO 2: To understand the theory of B.R. Ambedkarpolitical ideas, views on untouchability and social justice

CO 3: Get knowledge about J.P. Narayan's Total Revolution

CO 4: To discuss the M.N. Roy's philosophical aspect of Radical Humanism

Semester-VI

Paper I: Western Thinkers

CO 1: Students are required to take Basic Concepts of Political Thought which addresses the enduring political theories and knowledge about political life and values of different political thinkers.

CO 2: Students get information about the different political thinkers like Greek, Americans, French and England.

Name of Programme: M.A. Political Science

Semester-I

Paper I: Western Political Thought-I

CO 1: To understand Social and Political Conditions of Greek City States, theory of Justice Communism, Education and theory of Philosopher King by Plato.

CO 2: To understand Machiavelli:Separation of Ethics from Politics statecraft and Hobbes views on human nature and State of Nature

CO 3: To discuss Locke theory state of nature, Natural Rights possessive individualism and Social Contract theory

CO 4: To understand Rousseau: human nature and state of nature and social contract theory of General Will

Paper II: International Politics

CO 1: Explaining scope and subject matter of International Relations as an autonomous academic discipline. Studying the role of Diplomacy, Propaganda and Military capabilities in the making of foreign policy.

CO 2: Explaining certain basic concepts like Globalization in contemporary world order. Describing the Cold War phases and understanding the post-Cold War era. Discussing the developments in European Ethno-nationalism since 1990's

Paper III: Indian Political System

CO 1: Outlining the basic values and philosophy of Indian Constitution as expressed in the Preamble.

CO 2: Studying Fundamental rights, duties and Directive Principles of State Policy.

CO 3: Examining Indian federalism through Centre-state relations.

CO 4: Evaluating the structures of government at the National level.

CO 5: Evaluating the structures of government at the State level.

CO 6: Assessing Judicial Activism in India with particular reference to Supreme Court

Paper IV: Principles of Public Administration

CO 1: Knowledge about Significance of Public Administration and Ecology of Public Administration, New Public Administration

CO 2: To understand the theory of Scientific Management (Taylor), Bureaucratic Theory of Organization (Weber), Human, Relations (Elton Mayo). Herbert Simon's Decision-Making Approach

CO 3: Knowledge about Principles ofhierarchy, Unity of Command, Span of Control, Delegation and recruitment

CO 4: Concept of Budget and Performance Budgeting and functions of Lok Pal and LokAyukta

Paper V: Political Sociology

CO 1: Studying the concepts of Power, Authority and Legitimacy in the context of society.

CO 2: Examining the meaning, nature and scope of Political Sociology.

CO 3: Comparative study of Political Science, Sociology and Political Sociology

CO 4: Examining social stratification through the index of class, caste and elite.

CO 5: Establishing State –society interrelationship.

CO6: Discussing the approaches to the study of Political Culture. Evaluating the different agents of Political Socialization and their interrelationships.

CO 7: Evaluating the concept of Political Development and Social Change- Role of Tradition and Modernity.

Semester-II

Paper VI: Western Political Thought-II

CO 1: To examine Bentham theory of utilitarianism

CO 2: To understand John Stuart Mill theory of On Liberty and working system ofrepresentative government

CO 3: To understand Hegel theory of Dialectical and historical materialism

CO 4: Knowledge of Marx Dialectical and Historical Materialism, Class Struggle and theory of surplus value

Paper VII: Modern Political Analysis

CO 1: Analyzing what is Modern politicalanalysis and explaining the approaches to the Study of Politics– Normative, Behavioral, Post Behavioral and System.

CO 2: Assessing empirical Modern Political Theory: System's Analysis, Structural Functionalism.

CO 3: Explaining Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructureanalyzing the Political Development and Modernization.

Paper VIII: Comparative Political Systems: UK, USA, and France

CO 1: Discuss the theory and apply the methodology of comparative analysis within the discipline of political science. Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.

CO 2: Write an analysis of the institutions, political behaviour and political ideas of another country comparing these attributes to the U.S. and U.K and France model.

Paper IX: Issues and Trends in Indian Politics

CO 1: Explaining the different theories from the point of view of Indian Political perspective.

CO 2: Studying the process of interaction between society and politics in contemporary India-Caste, tribe and religion.

CO 3: Explaining in detail coalition government, analyzing Dalit politics.

CO 4: Socio-economic system conditioning Indian Democracy

Paper X: Public Policy

CO 1: Knowledge about Features of public policy and five types of public policy (Substantive, Regulatory, Distributive and Re-distributive policies

CO 2: To understand the policy analysis and policy making in India different method and techniques to policy analysis

CO 3: Studying three types of Model Lindbloom's incremental, Herbert Simon decision making and Dror Normative optimum model

CO 4: To understand the role of executive, legislature, judiciary, political parties, pressure groups, mass media and social movements

CO 5: To understand the type different conditions for successful implementation of the policy

Semester-III

Paper XI: Politics of International Economic Relations

CO 1: This study is based on the assumption that in order to understand patterns of interaction and change at the global level.

CO 2: Need to look at both international politics and economics in an integrated manner.

CO 3: Analyze the economic issues of trade, finance, production and development, but not from the perspective of economic theory. Instead, learner will engage with the International Relations concepts, ideas and literatures on the economic relations among states, and between states and non-state actors (such as firms, societal groups and international organizations).

CO 4: The objective is therefore on the political problems that arise as a consequence of the increasing density of international economic relations.

CO 5: Knowledge of economics is an advantage but not a requirement.

Paper XII: Foreign Policy of India

CO 1: To understand determinants-internal, historical physical setting, economic and ideological and basic principles of Indian foreign policy

CO 2: To get knowledge about India and its neighbouring countries Sri Lanka, Bangladesh, Nepal, Pakistan etc.

CO 3: To studying the majors power: US, China

CO 4: India's Approach towards the restructuring of the UN

CO 5: To understand India's Nuclear Policy

CO 6: The role of India in BRICS

Paper XIII: International Law

CO 1: This course identifies with "international law" address traditional "public law" topics, such as the actions of states and interstate organizations, so-called "private international law" (dealing with the regulation of persons or property), or modern regimes that blur such distinctions, such as courses on "global governance" or the World Trade Organization.

CO 2: The category also includes courses that focus on specific types of cross-border transactions, such as project finance or sovereign debt offerings.

CO 3: Understanding International law relating to war and peace.

CO 4: In addition, there are specialized courses on international topics such as human rights, environmental law, and investment law

Paper XIV: International Organization

CO 1: The course gives a thorough understanding of the core literature on international organizations

CO 2: Detailed knowledge of United Nations

CO 3: Information regarding United Nations Declaration on Human Rights

CO 4: Engage with this literature critically by developing their own argumentation

CO5: Explain the main theoretical approaches and empirical issues in the study of international organizations

CO 6: Write clearly, effectively, and subtly about these issues.

Paper XV: Human Rights

CO 1: Human rights as a branch of public international law, and relevant juridical mechanisms at global as well as regional levels, human rights as an object of study in history, philosophy and the social sciences, as well as a practical reality in national and international politics,

CO 2: Different forms of promoting and implementing human rights, domestically as well as on the international level.

CO 3: Understanding the role of human rights in contemporary issues relating to terrorism, religion, ethnicity, gender and development

Semester-IV

Paper XVI: Recent Political Theory

CO 1: Explaining the origin and decline of Political theory.

CO 2: Understanding Gramci and Max Webber viewpoints of state, civil society and hegemony

CO 3: Explaining the different theories of democracy

CO 4: Assessing the concepts of positivism, neo-positivism, modernism, post-modernism, libertarianism

CO 5: Understanding the theories of state and its legislation

Paper XVII: Indian Political Thought

CO 1: Students are required to take Basic Concepts of Political Thought which addresses the enduring political theories and questions of political life and values.

CO 2: Students get information about the theories and political views of Indian political thinkers.

Paper-XVIII Government and Politics in Punjab

CO 1: To understand the Singh Sabha Movement in Punjab, AryaSamaj, Movement, Ghadhar Movement and Praja- Mandal Movement

CO 2: To analyse theAkaliMorcha in Punjab

CO 3: Role of coalition politics in Punjab

CO 4: To examine the SarkariaCommission in centre state relations

CO 5: Impact of Green Revolution in Punjabsocio politics system

CO 6: To understand a dynamics party system in Punjab: Akali Dal, Congress-I, BJP and its emerging trends in Punjab Politics

Paper XIX: Research Methods in Social Science

CO 1: To get the knowledge about role of scientific methods in social sciences

CO 2: To understand the concepts of hypothesis

CO 3: To understand selection and formulation of the research problem, research design and sampling and sampling techniques

CO 4: To discuss about different methods like: survey, questionnaire, interview, observation and document analysis.

CO 5: To understand the various dimensions of research: data analysis, data interpretation andreport writing

Paper XX: Politics in South Asia

CO 1: Familiarity with critical debates regarding the colonial and, especially, the postcolonial history, institutions, and political processes of South Asia.

CO 2: Knowledge of specific institutions, events, and state actors involved in the politics, political economy, and political sociology of South Asia.

CO 3: A critical understanding of specific debates regarding patterns of political, economic, social, and cultural change in South Asia, as well as an ability to test the ideas that lie behind these debates with empirical data.

Department of Mathematics

Name of Programme: B.Sc. (Non-Medical)/ (Computer Science)/ (Economics)/ B.A.

Course Outcomes

Semester-I

Paper: I Algebra

CO 1: Algebra forms the basis for higher mathematics and helps students to apply mathematical results to more generalized concepts.

CO 2: Students will learn how to deal with quadratic, bi-quadratic and cubic equations.

CO 3: Students will be able to solve linear equations in three or more variables.

Paper: II Calculus and Trigonometry

CO 1: Learn the basic concepts of various functions like exponential functions, logarithmic functions and trignometric functions and their applications to problems in real world.

CO 2: It helps the students to understand the concept of Limits, Continuity, Uniform Continuity and Derivatives and different properties of these concepts.

CO 3: Students will learn about function of complex variables and their properties

CO 4: Students will be able to find sums of different trigonometric series

Semester-II

Paper: I Calculus and Differential Equations

CO 1: Calculus will help students to trace graphs of different functions and how to find their integrals.

CO 2: Students will be able to relate different Trigonometric integrals using reduction formulae.

CO 3: Students will be able to solve differential equations with constant and variable coefficients.

CO 4: Students will learn to find maxima and minima, critical points and inflexion points of functions and to determine the concavity of curves.

Paper: Calculus II

CO 1: Introduction of the concepts of Limits, Continuity, and partial derivatives of functions of two variables and different properties of these concepts.

CO 2: Students will learn to expand functions of two variables using Taylor's theorem.

CO 3: It helps to understand the concept of double triple integrals, how to solve them and their applications.

Semester- III

Paper: I Analysis

CO 1: Analysis will introduce the concepts of sequence, series and their convergence and divergence. Also it will introduce the concept of Riemann Integrals.

CO 2: Students will learn to check the convergence and divergence of sequence by using various tests.

CO 3: Students will learn to check the convergence and divergence of series by using various tests.

CO 4: Students will be able to check whether the function is Riemann Integrable or not and find their numerical values

CO 5: Students will learn to deal with improper integrals, beta and gamma functions.

Paper: II Analytical Geometry

CO 1: It will enhance the knowledge of Straight lines, parabolas, ellipse, hyperbola and sphere.

CO 2: Solve applied mathematics problems involving analytic geometry and conic sections.

CO 3: Students will be able identify different conics from general equation of degree two.

Semester-IV

Paper: I Statics and Vector Calculus

CO 1: Students will be able to know about the different kind of forces acting on a body at rest and their properties

CO 2: Students will learn about coplanar forces, parallel forces, moments, Varignon's theorem of moments, couples, resultant of two coplanar couples, and equilibrium of two coplanar couples.

CO 3: Students will learn about Centre of Gravity of different bodies

CO 4: Students will be able to differentiation of vectors, Gradient, divergence and curl operators, line integrals, Vector identity, Vector integration, Gauss Theorem, GreenTheorem, Stokes Theorem and problems based on them.

Paper: II Solid Geometry

CO 1: In Solid Geometry the students will learn about the surfaces and solids in space like cones, cylinders and prisms

CO 2: Students will be able to identify equation of cones and cylinders from a second degree equation in three variables

CO 3: Students will learn how to find surfaces of revolution of different curves.

Semester-V

Paper: I Dynamics

CO 1: Dynamics will help to understand the concept of speed, velocity, acceleration and use these in solving problems.

CO 2: Students will learn about Newton's Laws Motion and its applications.

CO 3: Students will learn about work, power and energy and laws related to kinetic and potential energy.

CO 4: Students will be to know about curvilinear motion of particle in a plane and projectiles.

Paper: II Number Theory

CO 1: It will enhance the concepts of divisibility, G.C.D, L.C.M and basic properties of integers.

CO 2: Students will be able to apply Euclid's Algorithm and backward substitution.

CO 3: Students will be able to understand the definitions of congruences, residue classes and their properties.

CO 4: Students will learn about different number theoretic functions and their properties.

Semester- VI

Paper: I Linear Algebra

CO 1: Linear Algebra will introduce the concept of Groups, Rings and Fields, Vector Spaces and Linear Transformations.

CO 2: Students will learn about linear span, linear dependence, linear independence of vectors and linear combination of vectors, basis of a vector space.

CO 3: Students will be able to learn about linear transformation and algebra of linear transformations. They will also learn Rank- Nullity theorem and Matrix of a linear transformation.

Paper: II Numerical Analysis

CO 1: In Numerical Analysis will learn common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems.

CO 2: Students will be able to drive numerical methods for various mathematical operations and tasks such as interpolation, differentiation, integration, the solutions of linear and nonlinear equations.

CO 3: Students will be able to analyse and evaluate the accuracy of common numerical methods.

Name of Program: M.Sc. (Mathematics)

Course Outcomes

Semester-I

Paper: 551 Real Analysis-I

CO 1: Real Analysis studies the concepts such as sequences and their limits, continuity, differentiation, integration and sequences of functions of real variables and will improve students' logical reasoning.

CO 2: Students will be able to understand countable & uncountable sets, open sets, closed sets,compact sets, prefect sets, k-cells and Cantor set.

CO 3: The students will be able to understand limits and how they are used in sequences, series differentiation and integration.

CO 4: They can understand Riemann-Stieltje'sintegral and its properties, Fundamental theorem of calculus and First and Second Mean values theorems of Riemann-Stieltje's integral.

Paper: 552 Complex Analysis

CO 1: Complex Analysis investigates functions of complex variables, their limits, derivatives, integration And provides students with opportunities to build a deeper cognitive mathematical framework.

CO2: Students will understand the concepts of anti-derivatives, Cauchy integral theorem or formula to Compute line integrals.

CO 3: Students will understand the Bilinear transformations and their critical points, fixed points, cross ratio problems.

CO 4: Students will study about zeroes singularities, residues at a pole and infinity and various theorems which help them to solve integral of a function of a complex variable.

Paper: 553 Algebra-I

CO 1: In Algebra students will study about different algebraic structures such as groups, rings,fields.

CO 2: It will introduce the concepts of Groups, Subgroups, Cyclic groups and their various theorems.

CO 3: Students will understand the concept of Rings, Subrings, Quotients rings, Ideals, Prime ideals, maximal ideals, homeomorphisms of rings characteristic of a ring.

Paper: 554Mechanics-I

CO 1: Students can to articulate and describe deeply about both branches of Mathematics-Kinematics and Dynamics.

CO 2: Students will come to know about applications of Newton's Law of Motion.

CO 3: Students will learn about the Centre of gravity and Centre of mass of body along with its moment of inertia.

CO 4: Students will understand various applications of vector theorems of mechanics and interpretation of results.

Paper: 555 Differential Equations

CO 1: Students will study equations involve the derivat9ives of a function or a set of functions.

CO 2: Students will recognize ODEs and system of ODEs concept that are encountered in the real world, understand and be able to communicate the underlying mathematics involved to help another person gain insight into the situation.

CO 3: Students will able to classify partial differential equations and transform into the canonical form.

CO 4: Students will able to extract information from partial derivative models in order to interpret reality.

Semester-II

Paper: 561Real Analysis-II

CO 1: Students will study convergence, uniform convergence, differentiation, and integration of sequences and series of functions.

CO 2: Students will study the concepts of Outer measure, Lebesgue measure, Measurable sets and their properties.

CO 3: They will learn about characteristics functions, step and simple functions, Lebesgue integral and its various theorems.

CO 4: Students will study Arzela Theorem, Weistrass approximation theorem and their applications.

Paper: 562 Tensors and Differential Geometry

CO 1: The students will able to use the techniques of differential calculus, integral calculus, linear algebra and multi- linear algebra to study problems in geometry.

CO 2: Students will study the Theory of Space Curves, contact between curves and surfaces, envelopes, developable surfaces, asymptotic lines and their various theorems.

CO 3: Students will understand Geodesics, its differential equation, curvature, geodesics mappings and their various properties.

CO 4: Students will learn about different types of tensors such as Cartesian tensors, metric tensors, contra-variant, covariant and mixed tensors.

Paper: 563 Algebra-II

CO 1: Students will study field of quotients of an Integral Domain, Principle ideal domains, Euclidean rings, UFD, Ring of Gaussian Integers, Polynomial rings and various theorems for these concepts.

CO 2: Students will study different extension of fields such as finite, infinite, algebraic, separable, inseparable and simple and important theorem like Existence and uniqueness theorem.

CO 3: The concepts of Galois Theory, Group of automorphisms of a field are also introduced to the students. They study fundamental theorem of Galois Theory.

CO 4: Students will study modules, its different types, and Fundamental theorem for finitely generated modules over a PID.

Paper: 564 Mechanics-II

CO 1: Students will study the different concepts of rigid body such as: motion, linear momentum, angular momentum, impulsive forces and Laws of conservation of angular momentum and energy.

CO 2: Students will learn about the Euler's dynamical equations for motion about a fixed point and the properties of rigid body motion under no force.

CO 3: Mechanics will give students an idea of Lagrange's concepts of holonomic system and system of impulsive forces.

CO 4: Students will study the various standard principles such as: Hamilton's Principle, Principle of Least action and also study Euler-Lagrange equation for extremal functions.

Paper: 565 Differential and Integral Equations

CO 1: Students will study non-linear partial differential equations of first order and various methods to solve them such as Charpit's Method and Jacobi's Method.

CO 2: Students will learn about second-order partial differential equation and its various types.They also study various methods to solve them.

CO 3: Students will study various transformations such as Fourier and Laplace.

CO 4: Students will come to know about the concept of Voltera and Fredholm integral equations. They will be able to solve these methods such as: successive approximation, Neumann's series method.

Semester-III

Paper: 571 Functional Analysis-I

CO 1: It is an important branch of Mathematics developed with the purpose to cover theoretical needs of partial differentiable equations and Mathematical Analysis.

CO 2: Students will learn about important spaces like: Normed linear spaces, Banach spaces, Quotient spaces and concepts like Holder's and Minkowski's inequality and convergence in these spaces.

CO 3: Students will study continuous linear transformations, equivalent norms and compactness of finite dimensional normed linear spaces.

CO 4: Students will learn important theorems such as: Hahn-Banach Theorem, Open Mapping Theorem, Closed Graph Theorem, Uniform Boundedness Principle and an overview of Hilbert spaces

Paper: 572 Topology-I

CO 1: Students will study topology on a space is determined by collection of open sets, closed sets and by basis of neighborhoods at each points.

CO 2: Students will know what it means by convergence and compactness of topological space.

CO 3: Students will study about various topological spaces like T_O, T_1, Haudsroff spaces, regular, normal spaces, tychn off spaces, completely regular and completely normal spaces.

CO 4: Students will become familiar with Urysohn Lemma and Teize Extension Theorem which helps to characterizemetrizable spaces.

Paper: 578: Operational Research –I

CO 1: The concerned course will help students to identify and develop operational research models from the verbal description of the real system by studying linear programming problems and properties of their solutions.

CO 2: Students will understand the various Mathematical techniques that are needed to solve linear programming problems such as Simplex Method, Big-M and Two-Phase method.

CO 3: Students will learn to formulate a dual of primal problem and methods to solve them. They also study Transportation and Assignment problems by solving them using various methods.

CO 4: The concept of Game Theory and Integer Programming will enhance their knowledge and mathematical logics.

Paper:586Number Theory

CO1: Students will understand simultaneous linear congruences, Chinese-Remainder Theorem with applications, Fermat's Numbers and Primitive roots.

CO 2: Students will learn indices and their applications, quadratic residues, Gauss's Lemma, Jacobian symbols and its properties.

CO 3: Students will study the Arithmetic functions, Perfect numbers and Diophantine equation with its applications.

CO 4: Students will study finite and infinite simple continued fractions, periodic, purely periodic continued fractions and Fundamental solution to Pell's equation.

Paper: 577 Statistics-I

CO 1: Students will study different measures of central tendency, dispersion, moments, skewness and kurtosis and probability along with its various theorems and applications.

CO 2: Students will learn about mathematical expectations and moments, moment generating functions and their properties.

CO 3: Students will study different probability distributions such as Binomial, Poisson's, Exponential, Gamma, Beta, and Normal.

CO 4: Students will learn about Least-Square principle, Linear and Multiple Regression, co-relation coefficients and ratio.

Semester-IV

Paper: 581 Functional Analysis-II

CO 1: Students will learn about strong and weak convergence in finite and infinite dimensional normed linear spaces.

CO 2: Students will study different operators such as: self-adjoint operators, unitary operators, normal operators and projection on Hilbert spaces.

CO 3: Finite Dimensional Spectral theory will give student's an insight of Spectrum of a bounded linear operator, self-adjoint, positive and unitary operators and Properties of Compact linear operators.

CO 4: Students will study the Banach algebras, regular and singular elements, Topological divisors of zero and formula for Spectral radius.

Paper: 582 Topology-II

CO 1: Students will study the study higher separation axioms for various topological spaces like T_5, metric spaces, Haudsroff spaces, regular, normal spaces, tychnoff spaces, completely regular and completely normal spaces.

CO 2: Students will study Compact Spaces, their properties and their relation with Hausdorff spaces, regularspaces and normal spaces.

CO 3: Students will study Bolzano-Weistrass property, Countably compact spaces, Locally compact spaces, tychonoff theorem and compactness in terms of base and sub-base elements.

CO 4: Students will study about nets, filters and ultra-filters which are useful in defining convergence of net in a set, eventually and frequently in a set

Paper: 588 Operational Research-II

CO 1: Students will learn about the Queuing Theory, classification of Queueing Models.

CO 2: Students will study about different Queuing Models, generalized models and Power-Supply models.

CO 3: Students will learn about Inventory decisions, cost associated and economic order quantity, problems with price breaks and replacement problems.

CO 4: Students will learn the need of simulations, its methods and models, maintenance problems and job sequencing.

Paper: 575 Discrete Mathematics-I

CO 1: It will enhance the knowledge of students about Mathematical concepts like relations, functions.

CO 2: Students will learn the use of grammar to construct languages In Automation.

CO 3: Students will learn to construct truth tables using different logic operations.

Paper: 587 Statistics-II

CO 1: Students will study various Sampling distributions such as Chi-Square, t and F, distribution of mean and variance and their properties.

CO 2: Students will learn about estimators, properties of unbiasedness, sufficiency and efficiency, simple and composite hypothesis and Likelihood tests.

CO 3: Students will learn about applications of Sampling Distributions and equality of two proportions.

CO 4: Linear Estimations models will help students to understand analysis of variance in one-way and two-way classified data, BLUE, and Gauss Markoff Linear Model.

Department of Cosmetology

Name of Programme: B.Voc. (Cosmetology and Wellness)

Course Outcomes

Semester-I

Paper: IV Basic Concept of Skin

CO 1: Learn the basic concept, structure & growth and reproduction of cell in brief.
CO 2: Get the knowledge about the function and structure of skin.
CO 3: Provides the knowledge of type and common skin problems in detail.
CO 4: Learn diseases & disorder of sweat and sebaceous glands.
CO 5: To have the Knowledge and treatments of skin allergy.

Paper: V Basic Skin Care

CO 1: Get the knowledge about the basic facial, including the various types & theory of massage.
CO 2: Learn the basic manipulation and massage techniques, benefits of massage,safety precautions.
CO 3: Learn the Basic knowledge of facial muscles and motor points.
CO 4: Learn toanalyse and identify the different facial types, skin types with magnifying glass or LED skin analyser.
CO 5: Identify which skin disorders may be handled in the salon and which should be referred to a physician and skin treatments with home remedies.

Paper: VI Epilation and Depilation

CO 1: Product knowledge which are used in epilation and depilation method.
CO 2: Provides the knowledge about how to remove unwanted hair with laser treatment.
CO 3: Students will learn the proper method of threading, waxing, tweezing and depilatories etc.
CO 4: Learn the techniques of doing skin bleach for lightened the facial hair & technique of doing shaving.
CO 5: Get the knowledge of benefits and safety precaution of epilation and depilation.

Paper: VII Manicure and Pedicure

CO 1: Knowledge of nail disorders, diseases &basic structure of nail.
CO 2: Product knowledge of manicure and pedicure.
CO 3: Get the basic knowledge of proper techniques of manicure and pedicure with pressure points.
CO 4: Provide knowledge about the benefits of manicure and pedicure.
CO 5: Learn infection control methods, safety and precautions.

Paper: VIII Sanitation and Safety Precautions

CO 1: Introduction to sanitation and cosmetology.
CO 2: Definitions pertaining to sanitation & method of sanitation.
CO 3: Get the knowledge of sanitation rules.
CO 4: Provide the knowledge of public sanitation & procedure.
CO 5: Learn types of sanitizers, usages & safety precaution.

Semester-II

Paper: IV Basic Concept of Hair

CO 1: Learn the basic structure, division of hair.
CO 2: Get the knowledge of forms and types of hair.
CO 3: Learn characteristics of hair.
CO 4: Provide the basic knowledge of growth and regeneration of hair.
CO 5: Knowledge of common disorders of hair and scalp infectious & non infectious diseases.

Paper: IV Hair Care

CO 1: Learn techniques of brushing and combing,
CO 2: Care of hair with oil treatments.

CO 3: Student will learn massage techniques (manual, vibratory), benefits & precautions of massage.
CO 4: Knowledge of application of heat & electrotherapy.
CO 5: Procedure of shampooing and conditioning the hair.

Paper: V Hair Styling and Dressing.

CO 1: Learn elements and basic principle of design.
CO 2: Knowledge of sectioning and basic haircuts.
CO 3: Get the knowledge of line, elevation& angle system which are used during haircuts.
CO 4: Students will learn thermal hair styling with different electronic equipments like pressing, curling rod, crimper etc.
CO 5: Learn to basic use of hair pieces and extensions in hair styling.

Paper: VI Hair Coloring and Lightening

CO 1: Learn basic principles of color.
CO 2: Provide knowledge about classification of hair color & selecting the color formula.
CO 3: Preparation and process of hair coloring.
CO 4: Usage of lighteners and experience the effect of lighteners.
CO 5: Learn preparation, process and safety precautions while using any chemical product.

Paper: VII Color Correction

CO 1: Learn the selection of color according to skin and hair.
CO 2: Provide knowledge of hair pigments.
CO 3: Learn how to do color toning.
CO 4: Get the knowledge about the depth of color.
CO 5: Learn different techniques of color correction and safety precaution while doing hair color.

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Cosmetology

Semester I

Paper: Theory/Practical

CO 1: The course offered in B:A: give emphasis by shaping the new minds of the students by giving the appropriate knowledge of Cosmetology.
CO 2: This Course offers the students to learn basic knowledge of skin, personal groomingand massage.
CO 3: This course provides an opportunity to the students to improve their Practical Skills through demonstration, Hands on practice.
CO 4: They will get the knowledge of basic etiquettes.
CO 5: Students can demonstrate practicalof preparing of facial mask pack and steps for applying the pack as per requirement of skin.

Semester-II

Paper: Theory/Practical

CO 1: Knowledge of nail disorders, diseases &basic structure of nail.
CO 2: Product knowledge of manicure and pedicure.
CO 3: Get the basic knowledge of proper techniques of manicure and pedicure with pressure points.
CO 4: Provide knowledge about the benefits of manicure and pedicure.
CO 5: Learn infection control methods, safety and precautions.
CO 6: Product knowledge which are used in epilation and depilation method.
CO 7: Provides the knowledge about how to remove unwanted hair with laser treatment.

CO 8: Students will learn the proper method of threading, waxing, tweezing and depilatories etc.

Semester-III

Paper: Theory/Practical

CO 1: Describe terminology and concepts used in the cosmetology field.

CO 2: Analyse customer needs and communicate solutions by applying theories of cosmetology to real-life customer experiences.

CO 3: Apply business concepts and professional behaviour to build a sustainable clientele in the field Cosmetology.

CO 4: Demonstrate basic cosmetology practical skills.

CO 5: Students learn structure of hair, its purpose, forms, composition and types of hair.

Semester-IV

Paper: Theory/Practical

CO 1: Perform hair care services for all types of hair including hair analysis, hairstylingand hair treatments.

CO 2: Perform basic hair care services including hair massage, hair Spa and superfluous hair removal.

CO 3: Demonstrate customer service skills, self-growth and personal development.

CO 4: Students learn to do thermal hair styling.

CO 5: Empower them by getting the knowledge of good and prescribed diet for healthy hair.

Semester-V

Paper: Theory/Practical

CO 1: Perform salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salon business.

CO 2: To have the knowledge of decontamination control, public hygiene and special sanitation procedures used for the protection of the client and the operator.

CO 3: Perform hair care services for all types of hair including hair analysis, hair cutting, hairstyling, hair coloring and lightening, permanent waving and chemical relaxing.

CO 4: Perform basic skin care services including skin analysis, makeup application.

Semester-VI

Paper: Theory/Practical

CO 1: Salon management teaches the business aspects of managing a salon.This includes aspects such as human resources, marketing, and financial components.

CO 2: Some individuals may move into management positions within the salon. Others may open or run their own business using the information taught in these programs.

CO3: This Course offers the importance of health and safety procedures in the salon.

CO 4: The importance of health and safety in the salon. Make the workplace safe for customers, suppliers and the general public; prevent risks to health; appropriate use and storage of materials; appropriate use maintenance and storage of equipment; indicate what to do in an emergency situation.

CO 5: Students are able to manage the difficulties like.Untrained staff, tools that are not properly sanitized, dirty basins and towels, inappropriate use and storage of chemicals, inappropriate use and storage of equipment, lack of cleanliness, poor ventilation.

Name of Programme: Diploma in Cosmetology

Course Outcomes

Semester-1

Paper: I

CO 1: Get the basic knowledge of aims and importance of cosmetology.

CO 2: Provides the basic knowledge of visual poise like care of yourself like teeth, ears, feet, ears, feet, removing body hair, nails, hand care and care of clothing.

CO 3: Students will be involved in the learning process of basic structure, functions, types analysis and common problems of skin.

CO 4: Provides the knowledge about benefits of massage, massage methods, plain facial and facial treatment of acne, pigmentation, wrinkles, blackheads removal etc.

CO 5: Create a variety of make-up according to day and night, formal &casual by analyzing the facial shape.

Paper: II

CO 1: Introduction to yoga, Elements of an on-going yoga practice, Concepts and basics of warm up and cool down, Safety principles in a yoga practice.

CO 2: Practices yoga asana for example Shav, Gomukh, Vajar, Chakra and many more.

CO 3: Understand the Basic Knowledge of hair structure, division and different types of hair and disorders like dandruff, alopecia, hair fall, white hair, head lice etc.

CO 4: Get the knowledge of sectioning, haircuts, techniques of haircuts, basic cuts etc.

CO 5: Provide the knowledge of proper sanitation of equipments and tool which are used in cosmetology lab.

Semester-II

Paper: I

CO 1: Understand the structure, disorders and diseases of nail.

CO2: Get the knowledge about the methods of pedicure and manicure, nail spa and nail art.

CO3: Provides the knowledge of how to take care of eyes, exercise of eyes, eyebrow shaping and treatment of eyes with home remedies.

CO4: Create a variety of make-up occasion like bridal, party, engagement with proper contouring of eyes, nose, lips, cheeks and jaw line.

CO5: Learn proper dupatta setting and saree draping.

Paper-II

CO 1: Students will be able to integrate knowledge about role of nutrition such as protein, carbohydrates, fats, minerals vitamin etc. and basic five food groups.

CO 2: Students will be able to justify what effect of color would have on the structure and how different color and looks work on the hair like global color, streaking, henna and understand the proper method of mixing and applying.

CO 3: Understand the Basic techniques of massage and treatments of different hair problems with the help natural ingredients. Also get the knowledge about the hair treatments after the use of chemicals like hair spa, deep conditioning and polishing.

CO 4: Learn advance techniques on the hair like rebonding and perming.

CO 5: Perform salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salonbusiness, planning and layout of salon.

Name of Programme: P G Diploma in Cosmetology

Course Outcomes

Semester-I

Paper: I Personality Development

CO 1: Students will learn using the color wheel to assemble your outfits.Outfits according to figure, physique, complexion, occupation and weather.

CO 2: Get the basic knowledge of aims and importance of cosmetology.

CO 3: Provides the basic knowledge of visual poise like basic & corrective stance, basic hand positions, correct sitting positions, getting in & out of car, handling coats, shawls, handbags etc.

CO 4: Develop students' ability to communicate about familiar topics and in simple and routine tasks, and participate in classroom conversations. Familiarize students with informal presentation skills and structures.

CO 5: Learn why personal hygiene is important as well as ways to maintain personal hygiene. Students then finish up by making a personal hygiene plan & type, growth and reproduction of bacteria.

Paper: II External Skin Science

CO 1: Get the basic knowledge of structure of cells, growth and reproduction of cells in brief.

CO 2: Students will be involved in the learning process of anatomy, function, types and different problems of skin.

CO 3: To have the basic knowledge of facial muscles, kinds of nerves of face and neck.

CO 4: Gain the Knowledge of basic theory of massage, its benefits and precautions.

CO 5: Provides the knowledge of benefits of massage, basic manipulation, contraindications, and facial therapies with pressure points.

Paper: III Hair and scalp

CO 1: Understand the Basic Knowledge of hair structure, division and different types of hair.

CO 2: Knowledge of the structure connected with hair follicle like dermal papilla, outer & inner roots sheath, bulb, dermal cord, connective tissues &arrectorpilli muscles.

CO 3: Get the knowledge of growth and Replacement of hair like hair cycle, analysis and hair pigments.

CO 4: Knowledge of hair disorders such as infectious and non-infectious disorder and their reasons.

CO 5: Provides the knowledge of care and treatments of scalp with different electrical equipments.

Semester-II

Paper: I Yoga and Saloon Management

CO 1: Knowledge of balance, flexibility, kinestheticawareness, alignment, breathcontrol, strength.

CO 2: Introduction to relaxation techniques, experience the relationship between mind, body and spirit.

CO 3: Introduction to yoga, elements of an on-going yoga practice, Concepts and basics of warm up and cool down, Safety principles in a yoga practice.

CO 4: Perform salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one's own salon business.

CO 5: Student will get the knowledge of decontamination control, public hygiene and special sanitation procedures used for the protection of the client and the operator, Students will learn the professional ethics and also get the awareness of qualities and duties of salon manager/ operator.

Paper-II Makeup and Cosmetics

CO 1: Assess the chemical composition of cosmetic products and recommend appropriate cosmetic treatments.

CO 2: Students will able to differentiate ingredients found in cosmetic products and identify their functions, effects and apply various make-upequipment and techniques used for professional application.

CO 3: Create a variety of make-up special effects to portray a theme or cater to the requirements of events and perform Basic makeup, Formal makeup, corrective makeup andbridal makeup.

CO 4: Get the knowledge of structure, functions, disorder and diseases of nails in brief.

CO 5: Provides the knowledge about step by step manicure and pedicure with their effects.

Paper-III Chemical Structure of Hair and Colours

CO 1: Students will get the Basic knowledge and chemical composition, knowledge of hair bonds, chemical reaction in layers of hair, acids, and alkalis in hair, action of shampoo and types of shampoo.

CO 2: Provides basic knowledge of physical and chemical classifications such as shampoo, hair conditioners, rinses, hair gels, lotions, sprays, tonics and oils.

CO 3: Get the knowledge of basic principles of color, color correction, types of color, client consultation, mixing techniques and depth and tones of color etc.

CO 4: Provides the knowledge of hair texturing like cutting tools, cutting angle system, cutting lines & texturing and different techniques and haircuts.

CO 5: Knowledge of chemical jobs, permanent waving and hair rebonding techniques.

Department of Mass Communication and Video Production

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Year- I

Paper: Journalism and Mass Communication

CO 1: Students will be able to make effective oral presentations on a variety of topics in public. The students become sensitive and caring and the ability to understand people of very different backgrounds and upbringing is developed in them.

CO 2: The students develop the ability to present information clearly, logically and critically.

CO 3: The students understand the basics of news and its elements, news sources and its types.

CO 4: The students can identify the role of the reporter and his/her duties and responsibilities. They are aware about the various duties, responsibilities and qualities of reporter of different beats.

CO 5: Understanding the crucial role played by Ministry of I&B and its various organs.

Year- II

Paper: Journalism and mass communication

CO 1: The students analyze the work of various news persons, their qualities, duties and the professional requirements.

CO 2: The students come to know about the whole process of starting a newspaper venture of how to apply for it and what are the other formalities.

CO 3: Defining various aspects and the nuances involved in newspaper page designing and typography.

CO 4: The students can understand various formats of Radio and TV programs.

CO 5: The students develop knowledge about photography and photojournalism.

Year- III

Paper: Journalism and mass communication

CO 1: The students gain knowledge about advertising and its different types and mediums and their selection criterion.

CO 2: The students learn about ethics of advertising.

CO 3: The students understand the structure and functioning of an advertising agency.

CO 4: The students gain knowledge about Public Relations and its various aspects, PR in Public and Private sector and various tools of PR.

CO 5: The students learn about the new technologies in PR, PR institutions and role of PRO with the qualities and duties.

Name of the Programme: B.Voc. (Journalism&Media)

Course Outcomes

Semester-I

Paper: Communication: Principles and Practices

CO 1: The students will be able to apply specific paradigms for critical thinking to mass communication.

CO 2: They will be able to determine the best methods and strategies for developing a message.

CO 3: They will be able to evaluate mass communication theories and assess their use.

CO 4: Students will be able to make effective oral presentations on a variety of topics.

CO 5: The students will be aware about basic concepts of communication and its role in society.

Paper: Basics of Computer

CO 1: They will understand the concepts of input/output devices of computers and how it works.

CO 2: The students will be able to use MS office, MS excel, MS word and power point presentation.

CO 3: The will know the important commands of coral draw, page maker, quark express and Photoshop.

CO 4: They will know about internet and its applications.

CO 5: The students will be able to make banners in coral draw.

Paper: News Reporting-I

CO 1: The basics of reporting and writing for print media will be introduced to the students.

CO 2: The students will be able to understand the news values and qualities of reporters.

CO 3: Different types of reporting and their importance will be told to the students.

CO 4: The students will be trained in event reporting.

Paper: History of Press

CO 1: The students will be introduced to the history of print media and its role in freedom movement.

CO 2: The students will be made aware about organs of I&B Ministry and their working.

CO 3: The students will know about the regulatory bodies in Print and Broadcast journalism.

CO 4: The students will be told about the evolution of Indian press and media in Punjab.

Semester-II

Paper: Media and the Law

CO 1: The students will be provided with the basic ideas of all the laws related to media which govern it.

CO 2: The students will be told about their fundamental rights and duties.

CO 3: They will be made aware about the various regulatory bodies of media.

CO 4. The students will be provided with basic understanding on various media laws and ethics.

Paper: News Reporting-II

CO 1: The students will be introduced to writing styles of articles/features/Columns/editorials and reviews.

CO 2: They will be able to understand newspaper organisation structure and editorial department.

CO 3: The students are acquainted with interview taking techniques.

Paper: Editing for newspapers

CO 1: The students will be acquainted with principles of editing, Copy testing, and rewriting the news Copy.

CO 2: The students will be able to analyze the headlines of news stories and different types of headlines.

CO 3: The students will learn about the importance of translation in journalism.

CO 4: They will be able to differentiate between newspaper/radio and TV editing.

Paper: Design and Pagination

CO 1: The students will be told about traditional methods of printing and the new ones.

CO 2: They will come to know about the principles of page makeup and pagination.

CO 3: The students will be given practical knowledge about the software of pagination, quark express and illustrator.

CO 4: They will be told about the page makeup of various pages of a newspaper.

Semester-III

Paper: Broadcasting in India

CO 1: The students will be made aware about the evolution of broadcasting in India and its present status.

CO 2: They will learn about AIR, community radio, and internet radio.

CO 3: They will also learn about broadcasting policy of the government.

CO 4: The students will also be told about the AIR code of broadcasting and its commercial code.

Paper: Business Communication

CO 1: The students will be able to demonstrate their verbal and non-verbal communication ability through presentations.

CO 2: The students will be able to draft business correspondence with brevity and clarity.

CO 3: The students will be made aware about the various techniques of writing for business pages of a newspaper.

CO 4: They will have an understanding and analysis of budget and share market too.

Paper: Photo Journalism

CO 1: The students can create imagery which meets the requirements of different media.

CO 2: They are acquainted with different types of photography.

CO 3: The students will know about the various legal and ethical issues in photojournalism.

CO 4. The students will have a sound knowledge of technical aspects of photography.

Paper: Radio Journalism

CO 1: The students can produce well-researched, effective and relevant radio shows.

CO 2: They will be able to use all the equipments used in a radio studio.

CO 3: The students will be able to apply technical skills in recording and production skills to produce and present radio interviews, news stories and features.

CO 4: The students will develop professional communication skills as applicable to professional broadcast media including voice and presentation.

Paper: Advertising

CO 1: The students will be introduced to basics of advertising and its role in society.

CO 2: The students will be trained in basics of ad campaign designing and copy writing.

CO 3: The students will be made aware about the ethics of advertising.

CO 4: They will be provided an understanding of various forms of advertising.

Semester-IV

Paper: Media Management

CO 1: The students will come to know about the importance of management in the field of media.

CO 2: The students will be told about the organisational pattern of print media.

CO 3: They will be acquainted with the functions of various departments of a newspaper.

Paper: Public Relations

CO 1: The students will be made to understand the scope, functioning of Public Relations.

CO 2: The students will be enabled to understand the various PR tools and publics.

CO 3: The role of PR in government and private sectors will be introduced to the students.

CO 4: The students will be able to understand the ethics, law and responsibility of Public Relations.

Paper: TV Journalism

CO 1: The student will be able to identify appropriate story Content for broadcast news reporting.

CO 2: The students will be able to gather information through a variety of methods using primary and secondary sources.

CO 3: They will be able to consistently meet production deadlines whilst maintaining high journalistic standards.

CO 4: They will be able to produce news reports using industry-appropriate techniques of scripting, shooting and editing.

Paper: Camera, Lights and Sound

CO 1: The students will learn all the aspects of camera and lighting.

CO 2: They will come to know about all the aspects of camera handling, lighting and sound system.

CO 3: They will be able to handle camera on their own and produce good quality videos.

CO 4: They will be given practical training of video editing using software.

Paper: Cyber Journalism

CO 1: The students will know about cyber journalism and its advantages/disadvantages.

CO 2: They will be aware about the recent trends of presentation of news in cyber journalism.

CO 3: They will be learning latest trends in cyber reporting and editing.

CO 4: They will be made aware about the concept of e-governance and cyber laws.

Semester-V

Paper: GK and Current Affairs

CO 1: The students will be aware about the national and international happenings.

CO 2: They will be able to take part in quizzes, debates and competitive exams.

Paper: Development communication

CO 1: The students will be enabled to understand various factors of development.

CO 2: They will be enabled to learn the problems of human development and required measures to overcome them.

CO 3: They will be introduced to development issues in India and coverage of these issues by media.

CO 4: The idea of social responsibility and awareness of state and central government welfare measures will be inculcated in them.

CO 5: The students will be trained on various media programme formats of development communication.

Paper: Film Production

CO 1: The students will get knowledge about various phases of film production, .i.e., preproduction, production and post-production.

CO 2: They will have knowledge about key departments involved in film making.

CO 3: They will know about film distribution, film review and film criticism.

Paper: Event Management

CO 1: The students will know the importance of team work.

CO 2: They will develop a range of leadership skills and abilities such as motivating others, leading changes and resolving conflict.

CO 3: The qualities of a good manager are instilled in the students as they have to act as good managers.

Paper: Writing for Media

CO 1: The students will be acquainted with the process of writing for print/radio/TV.

CO 2: They will be able to write good scripts for radio and TV.

CO 3: Students will be able to understand and apply the historical, theoretical, legal and societal contexts for producing and consuming news media for consumers, ranging from local to global publics.

Semester-VI

Paper: GK and Current Affairs

CO 1: The students will be aware about the national and international happenings.

CO2: They will be able to take part in quizzes, debates and competitive exams.

Paper: Folk Media

CO 1: The students will be able to understand the role of folk media in communication.

CO 2: The students will be able to understand the influence of modern media on folk media.

CO 3: They will come to know the present status of folk media.

Paper: Communication Research

CO 1: The students will demonstrate a sound knowledge of basic research methods.

CO 2: They will demonstrate a working knowledge of the theories and frameworks through which media are analysed and understood.

CO 3: The students will be conducting surveys which will enhance their practical knowledge in research.

Paper: Publishing

CO 1: The students will be able to understand the principles of publishing industry.

CO 2: The students will understand the job of central and state publishing groups and NBT.

CO 3: They will understand the working of a publishing house by visiting there.

CO 4: The students will be made aware about basics of DTP fonts, page designing and proof correction.

CO 5: The students will be told about the Copyright, plagiarism and royalty.

Paper: Training

CO 1: The students will get training in any reputed media house for one month. They will be acquainted with the working environment of the media houses.

Name of the Programme: M.A.(Journalism and Mass Communication)

Course Outcomes

Semester-I

Paper: Introduction to Communication

CO 1: The students will be able to apply specific paradigms for critical thinking to mass communication.

CO 2: They will be able to determine the best methods and strategies for developing a message.

CO 3: They will be able to evaluate mass communication theories and assess their use.

CO 4: Students will be able to make effective oral presentations on a variety of topics.

CO 5: The students will be aware about basic concepts of communication and its role in society.

Paper: History of Print Media in India

CO 1: The students will be introduced to the history of print media and its role in freedom movement.

CO 2: The students will be made aware about organs of I&B Ministry and their working.

CO 3: The students will know about the regulatory bodies in Print and Broadcast journalism.

CO 4: The students will be told about the evolution of Indian press and media in Punjab.

Paper: Reporting and Editing

CO 1: The basics of reporting and writing for print media will be introduced to the students.

CO 2: The students will be able to understand the news values and qualities of reporters.

CO 3: Different types of reporting and their importance will be told to the students.

CO 4: The students will be trained in event reporting.

Paper: Media Law and Ethics

CO 1: The students will be provided with the basic ideas of all the laws related to media which govern it.

CO 2: The students will be told about their fundamental rights and duties.

CO 3: They will be made aware about the various regulatory bodies of media.

CO 4: The students will be provided with basic understanding on various media laws and ethics

Paper: Advertising

CO 1: The students will be introduced to basics of advertising and its role in society.

CO 2: The students will be trained in basics of ad campaign designing and Copy writing.

CO 3: The students will be made aware about the ethics of advertising.

CO 4: They will be provided an understanding of various forms of advertising.

Semester-II

Paper: Development Communication

CO 1: The students will be enabled to understand various factors of development.

CO 2: They will be enabled to learn the problems of human development and required measures to overcome them.

CO 3: They will be introduced to development issues in India and coverage of these issues by media.

CO 4: The idea of social responsibility and awareness of state and central government welfare measures will be inculcated in them.

CO 5: The students will be trained on various media programme formats of development Communication.

Paper: Media Management

CO 1: The students will come to know about the importance of management in the field of media.

CO 2: The students will be told about the organisational pattern of print media.

CO 3: They will be acquainted with the functions of various departments of a newspaper.

Paper: Current Affairs

CO 1: The students will be aware about the national and international happenings.

CO 2: They will be able to take part in quizzes, debates and competitive exams

Paper: Communication Research-I

CO 1: The students will demonstrate a sound knowledge of basic research methods.

CO 2: They will demonstrate a working knowledge of the theories and frameworks through which media are analysed and understood.

CO 3: The students will be conducting surveys which will enhance their practical knowledge in research.

Paper: Radio and TV Programming

CO 1: The students will be able to use all the equipments of a radio and TV studio.

CO 2: The students will be able to write scripts for different formats of radio and TV.

CO 3: They will be able to use camera and produce TV programs of any format.

Semester-III

Paper: Mass Communication Research-II

CO 1: The students will demonstrate a sound knowledge of basic research methods.

CO 2: They will demonstrate a working knowledge of the theories and frameworks through which media are analysed and understood.

CO 3: The students will be conducting surveys which will enhance their practical knowledge in research.

Paper: New Media Technology

CO 1: The students will come to know about the concept of new media in mass Communication.

CO 2: They will be made aware about cyber journalism.

CO 3: They will be acquainted with working of online newspapers.

Paper: Public Relation and Corporate Communication

CO 1: The students will be made to understand the scope, functioning of Public Relations.

CO 2: The students will be enabled to understand the various PR tools and publics.

CO 3: The role of PR in government and private sectors will be introduced to the students.

CO 4: The students will be able to understand the ethics, law and responsibility of PRO.

CO 5: They come to know about corporate Communication and privatisation of PR.

Paper: Science Journalism

CO 1: The students are made aware about the importance of science in the field of journalism.

CO 2: They come to know about health Communication, government policies of health sectors and welfare measures of the government.

CO 3: They are also familiarized with agriculture Communication, use of pesticides and fertilizers on crops and their impact on our health.

CO 4: The students are given necessary skills to interview a scientist.

Paper: Photography

CO 1: The students can create imagery which meets the requirements of different media.

CO 2: They are acquainted with different types of photography.

CO 3: The students will know about the various legal and ethical issues in photojournalism.

CO 4: The students will have a sound knowledge of technical aspects of photography.

Semester-IV

Paper: International Communication

CO 1: The students will be made aware about political, cultural and social dimensions of Communication.

CO 2: They will be made aware about the UN's Universal declaration of human rights.

CO 3: They will be made aware about issues in international Communication.

Paper: Human Rights

CO 1: The students will come to know about the concept of human rights and its connection with media.

CO 2: The students will be made aware about the state and national commissions on human rights.

Paper: Film Studies

CO 1: The students will have knowledge about historical background of world cinema and Indian cinema.

CO 2: The students will be introduced to the pioneers of Indian cinema.

Paper: Intercultural Communication

CO 1: The students will be introduced to the concept of intercultural Communication by telling them about various cultures of the world and importance of Communication in uniting them.

CO 2: They will come to know about the efforts of UN and other institutions in the promotion on intercultural Communication.

CO 3: They students can have inclination towards research in the field of intercultural Communication.

Paper: Dissertation

CO 1: This dissertation can be a basis of Ph.D. for the student.

CO 2: The students will be motivated to do research based dissertation.

Department of Fine Arts

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Semester-I

Paper: Fine Arts (Theory & Practical)

CO 1: This paper aims to shape the delicate minds of the new comers towards being sensitive, sensible with critical bent and acquiring the basics of fine Arts through the "Indian Art History".

CO 2: The paper provides an opportunity to the students to improve their creative skill with six limbs of Indian Painting (Shadanga).

CO 3: The students will identify the techniques of Indian painting and it will help to understand the application of Colour, Texture, Light & Shade Perspective, Rhythm, and Balance & Harmony.

CO 4: It will enable the students to understand the composition, Classical Mural tradition of Ajanta paintings & technique.

CO 5: The students will identify & describe the emergence of earliest Indus Valley Civilization in India.

CO 6: The practical application enables the students to understand & apply creative writing of different style, still life and Collage making.

Semester-II

Paper: Fine Arts (Theory & Practical)

CO 1: The students will be acquainted with Mauryan Sculptures and Pillars-Sarnath, Rampurva, Parkham and Didarganj through Indian History of Art.

CO 2: Paper will enable the students to understand and analyse the Indian sculptures of karleand Bhaja caves.

CO 3: It will enable the students to know the location of rich reservoir of Indian Art laying in the different parts of the country like SanchiStupa, AmaravatiStupa and BharhutStupa.

CO 4: They will be able to analyzeKushana period in Mathura Art and Gandhara Art.

CO 5: The practical work out lined in the syllabus will help the students to study different types of still life objects and will impart knowledge to understand proportion, volume, texture and light & shade.

CO 6: It will enhance the student's ability for creative posters on social awareness.

Semester-III

Paper: Fine Arts (Theory & Practical)

CO 1: Paper will help the students to evaluate consolidation of the Classical Gupta Sculpture of India-Mathura and Sarnath.

CO 2: They can analyze Post Classical Sculputres of Ellora, Elephanta and Mahaballipuram.

CO 3: The students will be able to analyse various Chola Bronzes Sculptures and its technique.

CO 4: The course will enable them to have inter-comparison of 2 dimensional and 3 dimensional designs based on folk forms.

CO 5: They will understand the head study (Male/ Female) through structure, volume, proportion, texture, light and shade in Monochromatic Colour Scheme.

Semester-IV

Paper: Fine Arts (Theory & Practical)

CO 1: They will able to have the description of Early Indian Miniature Painting (Pala Paintings) related to Buddhism

CO 2: The students will understand and can enhance their knowledge to grasp the western Indian Miniature Paintings (Jain Paintings) related to Jainism.

CO 3: Students will acquire knowledge about Mughal Art (Painting) under Akbar and Jahangir.

CO 4: Students will be able to classify Rajastahni Art (Painting) in Mewar, Bundi and Kishangarh.

CO 5: The paper will enable them to study comparison between Kangra Art and Basholi Art.

CO 6: The paper would enable the students to understand the practical art work-landscape through study of clouds, trees and foreground. The students will also understand the full life study (life/cast) through the study of muscles and bones.

Semester-V

Paper: Fine Arts (Theory & Practical)

CO 1: The students will learn the skillful artistic creation by using techniques and methods appropriate to the intended result.

CO 2: They will consider the role of art making in the larger social context related to Cubism and Surrealism

CO 3: Students will develop artistic autonomy to identify and focus on their idea of Impressionism and Post-Impressionism.

CO 4: They will develop a working knowledge of and relationship to art history criticism and theory.

Semester-VI

Paper: Fine Arts (Theory & Practical)

CO 1: The students will evaluate the impact of British on Indian art with special reference to Company School of Art.

CO 2: It will help to enhance the knowledge of artistic creation and activity of Bengal School which show the impact of socio cultural scenario of Bengal in late 19th C. A.D.

CO 3: The students will learnt the different trends of creation in the artistic way in the contemporary art of Early and Mid-20th C.A.D. with the help of artist's works like Amrita Shergill, Jamini Roy, Sobha Singh, and M.F. Hussain.

CO 4: Student understandsthe basic principal of life study and color, concepts, media and formats and the ability to apply them.

CO 5: The students will learn the use of drawing, two dimensional and color, beginning with basic studies and continuing throughout the degree program.

Name of the Programme: BFA-Bachelor of Fine Arts

Name of the Programme: BFA (Painting)

Semester-I

Paper: Drawing-I

CO 1: The Students will learn sense of structure of human figures.

CO2: Students will learn Knowledge of drawing & painting of flower, plants, & insects.

CO3: Students will learn about the study of minerals.

CO4: The students will learn the basic discipline of beautiful hand writing and sense of letter as well as basic study of calligraphy style in English and Hindi.

CO5: They will learn to practice landscape & nature of clouds: through shading, rendering, hatching etc.

Paper: II Design 2D/ Color (Practical)

CO 1: The students will familiarize their self with the concepts of color in art and to what ends artists use it.

CO 2: The students will identify works with color, value, hue, etc. as predominant themes or techniques in the work

CO 3: They create their own work that demonstrates an understanding of color.

CO 4: They will understand of study of two dimensional space and its organizational possibilities

CO 5: They will acquire the knowledge of elements of pictorial expression related to concepts of space and forms.

CO 6: They will be developing an awareness of pictorial elements such as point, line, shape, volume, texture, light and color, Basic design problems.

CO 7: They will learn about various types of objects (natural and man-made) with a view to transform them into flat pictorial images.

Paper: III Design 3D (Practical)

CO 1: The students will learn to build basic structure in claylike spherical, conical and cylindrical.

CO 2: They will acquire the knowledge related to process of cement and terracotta.

CO 3: They will understand the term relief sculpture with the technique of shilpkar.

CO 4: They will learn how the medium thermocol is useful in making any art work

Paper: IV Print Making (Practical)

CO 1: The students will learn how to anticipate the process of gathering impressions with the various fundamental methods of taking prints.

CO 2: The students will learn the observation of various surfaces and textures of natural and man-made things.

CO 3: The course will acquire the knowledge of process of Lino, Wood and the techniques of taking prints.

CO 4: The students will learn how to take prints in monochrome.

Paper: V History of Arts (Theory)

CO 1: The students will evaluate the process of Prehistoric Art in India with its geographical areas with special reference to Bhim Bhetka Caves.

CO 2: The students will learn to describe the various artistic skills of Indus Valley people in various artistic fields.

CO 3: The Course provides an opportunity to the students to identify the socio cultural and artistic activities under Mauryan period. The emergence of Buddhism in Indian soil analyse by the students.

CO 4: The students will evaluate the architectural details of Buddhist architecture and other features of Buddhism. They will also learn the ability to understand the different phases of Buddhism through art of sculpture in Bharhut

CO 5: It will enable the students to understand the various styles of Buddhist sculptural art and its characteristics with the Jataka stories and other episodes of Buddha's life in Sanchi.

Semester-II

Paper: I Drawing (Practical)

CO 1: The course will give the knowledge about drawing which is a form of visual art in which a person uses various drawing instruments to mark paper or another two-dimensional medium. Common methods of digital drawing include a stylus or finger on a touch screen device, stylus- or finger-to-touchpad, or in some cases, a mouse.

CO 2: It will give the acquire knowledge of elements of perspective: study of basic solids, plan and elevation, main aspects of parallel and triangular perspective.

CO 3: The students will learn the basic discipline of beautiful handwriting, sense of letter and basic study of calligraphy style in english and hindi.

CO 4: They will learn to practice Gothic, Block Letters (Condense and Normal) type, its construction of letters and spacing. They will also practicing Roman type, its construction of letter and spacing

Paper: II Design 2d / Color (Practical)

CO 1: The students will identify works with color, value, hue, etc. as predominant themes or techniques in the work

CO 2: They will be developing an awareness of pictorial space- division of space form and relation with space observation of primitive, folk and miniature paintings as well as graphic designs.

CO 3: The paper will develop an awareness of inter-relation of different shapes and forms relative values.

CO 4: It will give the evaluation of understanding the color qualities in its variations of warm and cool colors, harmony and contrast.

CO 5: The students will learn how to create colored designs with regular irregular forms Mosaic/Mural/Flat Gradation effect.

CO 6: The course will give the knowledge to learn how to create space through form and color-Optical illusions. Handling of various types of material for pictorial organization and rendering, such as; Pencil, pen, brushes, water colors, poster paints, pastel crayon, inks, cellophanes, oil newsprint and other college material, gums and adhesives, wax crayon with inks, etc. A coordinated series is basic design problems with aesthetic and analytical approach.

Paper: III Design 3D (Practical)

CO 1: The students will learn to build basic structure in claylike spherical, conical and cylindrical.

CO 2: They will acquire the knowledge related to process of making wood block structure.

CO 3: They will understand the term relief sculpture with the technique of Plaster of Paris.

CO 4: They will learn how the medium metal sheet is useful in making any art work.

Paper: IV Print Making (Practical)

CO 1: The students will learn how to anticipate the process of gathering impressions with the various things like rice paper, handmade paper etc.

CO 2: The students will learn the observation of various surfaces and textures of various fabrics.

CO 3: They will acquire the knowledge of process of Lino and the techniques of taking prints.

CO 4: They will learn how to take prints in the process of screen printing.

Paper: V History of Arts (Theory)

CO 1: The students will get the ability to understand the artistic creativity of sculptural art of Mathura and Gandhara under KushanaDyanasty.

CO 2: They will be able to evaluate the knowledge about the artistic skills in terms of architecture, sculpture, painting and it will also enhance the ability of students to learn about the socio political scenario of Gupta dynasty especially in Mathura and Sarnath.

CO 3: It will enable the students to know the techniques of wall painting, the nature of colors and modes of various themes in Ajanta and Bagh Caves

CO 4: The students will analyse the various sculptural characteristics of art of Hoysallas and Badami

Semester- III

Paper:I History of Arts (Theory)

CO 1: Curriculum will help the students to analyse the revival of Hinduism in Indian soil after the decline of Gupta Dynasty. They also evaluate the socio political scenario of India in Various places in Early Medieval period.

CO 2: They can analyse post classical sculptures of Pallava, Ellora and Mahabalipuram

CO 3: The students will be able to understand the technique of various Chola Bronzes Sculptures.

CO 4: The students will also learn the ability to understand the architectural details of hindu temple and its types. The various kinds of sculptural activities enhance the structure of temple

CO 5: The students enhance their ability by learning the sculptural art during ChandellaDynasty.

Paper: II Aesthetics (Theory)

CO 1: Paper will enable students to classify the growth of art, their functions and aims of art.

CO 2: Students can analyse the classification development of the categories of art- Visual and Performing Arts. It will enable them to analyse the relationship between visual and performing arts.

CO 3: Students would be able to identify, describe and compare/contrast between art and craft.

CO 4: Students will be capable to understand the elements of art-line, form, colour, texture and tone.

CO 5: Students will be able to identify &analyse the key facts of principles of art-Balance, Harmony, Perspective, Emphasis, Rhythm and Movement.

Paper:IIIMethod and Materials (Theory)

CO 1: The Course explains the composition and role of the importance of the study of method and materials.

CO 2: Students will learn about levels, role and responsibilities of the deterioration of painting and beautiful materials.

CO 3: Students will acquire knowledge about the nature and characteristics of various drawing materials- pencil and pen drawing, charcoal drawing, black and red chalk-drawing.

CO 4: Students can analyse and describe the development of painting materials-water colour painting, oriental ink painting and oil painting.

CO 5: Students will be capable of understanding the crayon and pastel Gouache.

Paper: IV Portrait (Practical)

CO 1: The students will understand the construction of skull, planes and masses of head.

CO 2: The students will acquire the knowledge to learn the process of creating the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: The students will learn the process to create character of different shapes of different part and modelling.

CO 4: The students will understand the process of light and shades in different mediums.

Paper:V Life Drawing (Practical)

CO 1: The course will give the understanding of figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life

CO 2: The students will learn the process of study from life model to develop understanding of the human structure; volume in perspective and foreshortening proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

Paper: VI Composition Painting (Practical)

CO1: Students will learn about 2d and 3d paintings.

CO2: The course will give the understanding of figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life.

CO3: Student practice the line, drawing, color, texture, form & space, balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment.

CO4: Students practice the detail study of animals, various media outdoor & indoor sketching. The study of eye level and perspective balance and rhythms to be used in composition is also practiced.

Paper: VII (B)Computer Graphics (Practical)

CO 1: Students will learn about various computer software's of art world.

CO 2: Students will work on art projects which help in increased productivity and efficiency of work

CO 3: Students will learn about the process of creating technical drawing with the use of software

CO 4: Students will learn about modelling techniques are used for creating 3D-printed objects.

CO5: It has many applications in the entertainment industry, most importantly video games and visual effects in movie production.

Semester-IV

Paper:I History of Arts (Theory)

CO 1: They will able to have the description of Indian Miniature Painting and its emergence in India with special reference to Mughal, Rajasthani, and Pahari.

CO 2: The students will understand and can enhance their knowledge to grasp the Techniques used in different phases of Miniature art of India and its subject matter and coloristic approach.

CO 3: Students will acquire knowledge about art of Mughal under Akbar and Jahangir

CO 4: Students will be able to classify the style of Rajastahni Art especially Mewar, Bundi and Kishangarh.

CO 5: The paper will enable the students to know the style of Kangra and Basohli Art in details.

CO 6: They will learn the emergence of European Impact in social scenario and in the artistic activities of Indian art.

CO 7: The students will enhance their knowledge by knowing about folk art of West Bengal, its techniques and emergence of Kalighat painting as a source of new style in Indian art.

CO 8: The students will learn the temple wall paintings of Tanjore with its techniques, Colors and style.

Paper: II Aesthetics (Theory)

CO1: It will help the students to understand the role of art.

CO2: The students will understand the role of art in human life.

CO3: They will understand the relationship between art & morality.

CO4: They will learn difference between art & communication.

CO5: They will understand detail study of art & expression.

Paper: III Method and Materials (Theory)

CO 1: The students will understand the meaning of Varnishes and its various types

CO 2: The students will acquire knowledge of Glues

CO 3: The students will learn the process of Preparation of Canvases

CO 4: The students will understand the various techniques of oil paints and oil, drying oils, thinners and their uses in the field of art especially in painting.

Paper: IV Portrait (Practical)

CO 1: The students will understand the construction of skull, planes and masses of head.

CO 2: The students will acquire the knowledge to learn the process of creating the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: The students will learn the process to create character of different shapes of different part and modelling.

CO 4: The students will understand the process of perspective and foreshortening in figure.

CO 5: The Students will learn the handling of colors in various ways which suitable to portraiture.

Paper: V Life Drawing (Practical)

CO 1: The course will give the understanding of figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life

CO 2: The students will learn the process of study from life model to develop understanding of the human structure; volume in perspective and foreshortening proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

Paper: VI Composition Painting (Practical)

CO1: Student learn about the 2d and 3d paintings

CO2: Student learn about the Detail study of elements of arts

CO3: Student learn about the study of line, drawing, color, texture, form & space

CO4: Student learn about the compositional exercise based on objects

CO5: Student learn about the animals, various media outdoor & indoor sketching

Paper: VII (B): Computer Graphics (Practical)

CO 1: CAD allows artists to view art works on virtual models and in various colors and shapes, thus saving time by requiring fewer adjustments of prototypes and samples later.

CO2: Software can help students draw, create logo, art, models to create patterns, adjust sizes and even determine fabric colors.

CO3: They can also easily adapt a single art work to varying materials and patterns, and build upon and alter existing art works to create new pieces.

CO4: Software can help students draw, create textures, patterns, adjust sizes and even determine acrylic colors. By Introducing this technological aspect will enable students to understand a lot better and try various combinations in their design.

Semester- V

Paper: I History of Arts (Theory)

CO 1: The students will able to identify and define world's earliest work of art in the western counterpart including Paleolithic, Mesolithic and Neolithic Revolution. They learn how the people used their creativity in the making of various tools and paintings.

CO 2: Students can analyse the artistic characteristics of Greek Civilization with the help of their geographical settlements, their knowledge of making sculptures, pottery and other art works.

CO 3: Students would be able to learn the characteristics of Roman Empire and their sculptural art forms in different mediums and their techniques of pa

CO 4: Students will be capable to understand the key facts of Christianity in the Europe by making the Catacombs, illuminated manuscripts and other details of architecture.

CO 5: Students will able to understand the formation of Cathedrals with huge sculptures and paintings which show the skills and mastery of artists of Gothic period.

Paper: II Aesthetics (Theory)

CO 1: The students will understand the concept that art is the expression of a man's feelings and imagination through a medium. When both are given a form, it is called art.

CO 2: It will help the students to understand the meaning of artist has total freedom to deny reality because they are supposed to be the creator of beauty.

CO 3: The course will attract the students to understand an artwork, e.g. Van Gogh - Sunflower painting.

CO 4: The students will understand the Theory of Rasa &Bhava given by different philosophers Anand Vardhan, Bharat Muni, Abhinav Gupta and Six limbs of Indian Paintings (Shadangas).

CO 5: The students will evaluate the Fundamentals in Indian Art as in Chitrasutra and Pratimalakshana of Vishnudharmottram, Shilparatna, Sukranitisara. They also understand Indian concept of beauty according to Veda and Literature.

Paper: III Method and Materials (Theory)

CO 1: Students will understand the terminology background, a ground is the very first layer of paint (or other wet medium) applied to an artwork. It is an undercoat, which can either be covered entirely by subsequent media, or left visible in the final work. Using a ground has several practical advantages, as well as some important aesthetic ones

CO 2: It will also help the students to understand three different types of colors: primary, secondary, orange, and purple Classification of colours

CO 3: The course will give the acquire knowledge of sources, characteristics and durability of pigments, causes of colours changing, priming and ground recipes

Paper: IV Portrait (Practical)

CO 1: The students will understand the construction of skull, planes and masses of head.

CO 2: The students will acquire the knowledge to learn the process of creating the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: The students will learn the process to create character of different shapes of different part and modelling.

CO 4: The students will understand the process of perspective and foreshortening in figure.

CO 5: The Students will learn the handling of colors in various ways which suitable to portraiture.

CO 6: The students will learn the creation of various features along with exercising various expressions and gestures of facial and muscular form respectively.

Paper: V Life Drawing (Practical)

CO 1: The students will acquire the knowledge to understand the various proportions of human anatomy by using various gestures and postures in human anatomy.

CO 2: The course will also give the knowledge to students about study from life model to develop understanding of the human structure; volume in perspective and foreshortening by using various mediums and techniques.

CO 3: The students will learn the technique that life drawing is a drawing of the human figure from observation of a live model. A figure drawing may be a composed work of art or a figure study done in preparation for a more finished work such as a painting.

Paper: VI Composition Painting (Practical)

CO1: Student learn about the Study of 2d and 3d paintings

CO2: Student learn about the study of elements of arts

CO3: They understand the line, drawing, colour, texture, form & space

CO4: They acquire knowledge about the compositional exercise based on objects

CO5: They learn about the of animals, various media outdoor & indoor sketching

Paper:VII (B): Computer Graphics (Practical)

CO 1: CAD allows for the easier development of products and product management integration.

CO2: It also allows for greater modelling and even provides a basis for virtual networking.

CO3: Students learn the ability to produce accurate art works; drawings can be created in 2D or 3D and rotated; other computer programmers can be linked to the design software.

CO4: Students will learn about create the layout of the business card, poster, greeting card and much more.

CO5: Students will learn about the process of creating technical drawing with the use of software

Semester- VI

Paper: I History of Arts (Theory)

CO 1: Students will analyse the emergence of new artistic art movement Renaissance with detailed views on social political scenario of Europe.

CO 2: The students will learn about the artistic values and views of the genius of High Renaissance.

CO 3: It will help the students to enhance their knowledge about the emergence of Baroque art as new artistic activity in different area of Europe with different style, medium and themes.

CO 4: Students will acquire the knowledge about Neo Classicism through the theme, style, and works of art made by the artists.

CO 5: The students will evaluate the tem Romanticism in details with the works of different artists in various places of Europe.

Paper: II Aesthetics (Theory)

CO1: The students will understand the Theory of western aesthetics.
CO2: They will do detail study of aesthetics during Greek classical Period
CO3: They will understand about the views of Greek philosophers on beauty.
CO4: The students will learn the relationship between art & society
CO5: The students will understand the art & society aesthetics.

Paper: III Method and Material (Theory)

CO1: Students learn about the Knowledge of oil colors & how to apply oil colors & Acrylic colors.
CO2: Students learn about the detail study of glazes.
CO3: They learn about the knowledge of distemper.
CO4: They will understand the difference between Plano graphics and intaglio.
CO5: They get knowledge about new wood and two color painting.

Paper: IV Portrait (Practical)

CO 1: The students will understand the construction of skull, planes and masses of head.
CO 2: They will acquire the knowledge to learn the process of creating the details such as eyes, mouth, nose, bust from different angles and eye levels etc.
CO 3: They learn to give emphasis on developing the concept of drawing.
CO 4: They will understand the process of perspective and foreshortening in figure.
CO 5: They will learn the handling of colors in various ways which suitable to portraiture.

Paper: V Life Drawing (Practical)

CO 1: It will help the students to understand the difference between male and female human anatomy structure
CO 2: The paper will also give the knowledge about the using of various view angles of live model and create full composition.
CO 3: The students will learn the technique that life drawing is a drawing of the human figure from observation of a live model. A figure drawing may be a composed work of art or a figure study done in preparation for a more finished work such as a painting.
CO 4: It will also help to understand the creation of human anatomy in natural light and artificial light.

Paper: VI Composition Painting (Practical)

CO1: They will acquire the knowledge of 2D and 3D paintings
CO2: They do the Detail study of elements of arts
CO3: They will learn about the study of line, drawing, color, texture, form & space
CO4: They will understand about the compositional exercise based on objects
CO5: They will learn about the various media of outdoor & indoor sketching

Paper: VII (B): Computer Graphics

CO 1: It opens the doors for independent artists to make their art projects in accurate manner.
CO2: Software can help students draw, create textures, drape models to create patterns, adjust sizes and even determine fabric colors. By Introducing this technological aspect will enable students to understand a lot better and try various combinations in their design.
CO3: Latest updates versions of the course will teach to the students and it will improve productivity revise errors, better quality work in less time
CO4: This paper leads to success in education and employment since computer skills are integral to all areas of study and work.

Semester- VII

Paper: I History of Arts (Theory)

CO 1: The paper will give the thorough knowledge of modern art of India with special reference to Bengal School of Art.

CO 2: It will give the acquire knowledge of emergence of new artistic activities in India with different styles of art in the early 20^{th} century A.D.

CO 3: The students will understand the knowledge of western art movements in Europe.

CO 4: It will give the ability to know the concept of Impressionism by the works of their artists like Monet, Manet, Renior, and Degas.

CO 5: The students will learn the artistic techniques used by the artists of Post Impressionism with their works.

CO 6: The students will understand the critical analysis of the subject matter and techniques of Fauvism.

Paper: II Aesthetics (Theory)

CO 1: The course will give the ability to understand the concept of creative process.

CO 2: The students will acquire the knowledge the role of imitation in art.

CO 3: The students will understand the role of subconciousness in art.

CO 4: The students will learn the theories related to works of art with special reference to form and content and expressiveness.

CO 5: The students will learn the process of intuition in art.

Paper: III Method and Materials (Theory)

CO 1: They will understand the technique and material of Fresco wall painting.

CO 2: The paper will give the knowledge to learn about the process of Jaipur method.

CO 3: They will understand the technique, its color scheme of Ajanta Painting.

CO 4: They will acquire the knowledge related to methodology of Mosaic.

Paper: IV Portrait (Practical)

CO 1: They will understand the construction of skull, planes and masses of head.

CO 2: The students will acquire the knowledge to learn the process of creating the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: They learn to give emphasis on developing the concept of drawing.

CO 4: They will understand the process of perspective and foreshortening in figure.

CO 5: They will learn the process of demarcation of character and its expression, gesture, posture, drapery and individualistic style of execution.

CO 6: The students will learn the creation of various features along with exercising various expressions in facial and muscular form.

Paper: V Life Drawing (Practical)

CO 1: The students will learn how to simplify the form and show different kind of emotions.

CO 2: It will also help the students to use different textures in body rendering.

CO 3: It will also help to understand the creation of human anatomy in natural light and artificial light.

CO 4: The students will learn the technique that life drawing is a drawing of the human figure from observation of a live model. A figure drawing may be a composed work of art or a figure study done in preparation for a more finished work such as a painting.

Paper: VI Composition Painting (Practical)

CO1: They will learn about the Study of 2d & 3d paintings

CO2: They will understand the study of elements of arts

CO3: They will acquire the knowledge of line, drawing, colour, texture, form & space

CO4: They will learn about the Compositional exercise based on objects

CO5: They will learn about the of textures of various media of outdoor & indoor sketching

Paper: VII (B): Computer Graphics (Practical)

CO1: Using CAD software, designers can create new sketches more quickly and more precisely. They can also easily adapt a single design to varying materials and patterns, and build upon and alter existing designs to create new pieces

CO2: The process of designing buildings is dominated by computers. Software tools used in the design phase can automate repetitive calculation and drawing tasks, help find new design solutions and provide a high degree of precision. This optimization makes the design process faster, clearer and more effective.

CO3: CAD allows for the easier development of products and product management integration. It also allows for greater modelling and even provides a basis for virtual networking. In the designing world, CAD is extremely important and widely used to design and develop products to be used by consumers

CO4: They will learn about the create a vast range of high-quality marketing content, including designing content for your social media profiles such as Face book, twitter etc. producing animated banner ads and creating a stylish and innovative design.

CO 5: They will learn about create the layout of the business card, poster, greeting card and much more.

Semester- VIII

Paper: IHistory of Art (Theory)

CO 1: It will enhance the student's ability to learn about the Progressive artist group.

CO 2: It will help the students in understanding various theories (groups) of Indian Art-Delhi, Calcutta and Madras (CholaMandalam, Shilpi Chakra).

CO 3: They will be able to learn about the nature of various western art movements and its impact.

CO 4: They will acquire significant knowledge and relevance about Cubism Futurism, Dadaism and Surrealism through their prominent artists-Picasso and Braque, Boccioni, Duchamp and Salvador Dali.

CO5: It will help to improve understanding the meaning, nature and scope of the Abstract art-WassilyKandinsky and Piet Mondrian for young artists through their art.

CO 6: Students can know about the Artistic change due to the working of Pop Art through their artists- Andy Warhole and Roy Lichenstein.

Paper: IIAesthetics (Theory)

CO 1: It will enhance the student's ability to understand the theories related to response and appreciation with empathy pleasure.

CO 2: They will able to classify the appreciation in work of art.

CO 3: They will evaluate how narration is important in work of art from the prehistoric art to till contemporary art.

CO 4: They will learn to classify the term abstraction in art with examples of works offew artists.

Paper: III Method and Material (Theory)

CO 1: The students will learn about Egg Temperatechnique and its main types.

CO 2: This paper will give complete knowledge about the techniques of Ceramic and Terracotta tiles.

CO 3: They will understand the care of oil paints.

CO 4: It will acquire the knowledge about removing varnish, retouching and cleaning of oil paints

CO 5: They will learn the process of serigraphy with stencil application.

Paper:IV: Portrait (Practical)

CO 1: The students will understand the construction of skull, planes and masses of head.

CO 2: The students will acquire the knowledge to learn the process of creating the details such as eyes, mouth, nose, bust from different angles and eye levels etc.

CO 3: The students learn to give emphasis on developing the concept of drawing.

CO 4: The students will understand the process of perspective and foreshortening in figure.

CO 5: The students will learn the process of demarcation of character and its expression, gesture, posture, drapery and individualistic style of execution.

CO 6: The students will learn the creation of various features along with exercising various expressions in facial and muscular form.

Paper: V Life Drawing (Practical)

CO 1: The paper will give the understanding of figure drawing, as it is the act of drawing a living person. Normally this means drawing a nude model in real life

CO 2: They will learn the process of study from life model to develop understanding of the human structure; volume in perspective and foreshortening proportion of male and female, rhythmic curves as uniting factors in all parts of the body; balance of parts, study of anatomy; various media; emphasis on delineation of character, various expressions and composition of figure in different settings and environment

CO 3: The students will learn the technique that life drawing is a drawing of the human figure from observation of a live model. A figure drawing may be a composed work of art or a figure study done in preparation for a more finished work such as a painting.

Paper: VI Composition Painting (Practical)

CO1: They learn about the Study of 2d and 3d paintings

CO2: They acquire the knowledge of study of elements of arts

CO3: They learn about the line, drawing, colour, texture, form & space

CO4: They understand the Compositional exercise based on objects

CO5: They learn about the process of various media in outdoor& indoor sketching

Paper: VII (B) Computer Graphics (Practical)

CO1: They will learn about logo design, brochure design, flex board, pamphlets etc.

CO2: They will understand the knowledge of various tools of Adobe Photoshop.

CO3: They will learn the process of masking and its types.

CO4: This paper will give acquire knowledge about the software in the creation of different print media.

Department of B. Design

Name of Programme: Bachelor of Design

(Specialization: Fashion/Textile/ Interior)

Programme Outcomes

PO 1: The programme provides opportunity to the students to select their area of specialization i.e. interiors, fashion and textiles and can explore their creativity according to their area of interest

PO 2: Programme familiarizes students with the nuances of design which make them effective communicator through brush and colours.

PO 3: The programme enhances the confidence of the graduates through carefully chosen curriculum with emphasis on practical learning, activities and close interaction with designers, craftsmen, teachers and fellow students.

PO 4: They learn about the history and development of design forms and the changing technologies that affect the crafting of messages leading up to and including contemporary designs.

Programme Specific Outcomes

PSO 1: Our students demonstrate their talent and dedication by consistently receiving recognition in district, state and national competitions.

PSO 2: They develop confidence in their ability to analyze forms, shapes and various types of design artifacts; understand cultural and historical contexts, and use this understanding to inform the development and evaluation of their work.

PSO 3: Students are introduced to many of the central themes of critical theory as applied to visual culture in general, and to fashion, textile and interior design in particular.

PSO 4: Students are introduced to theories and methods to facilitate clarity and understanding using a wide range of complex textual and visual information.

PSO 5: In projects, students learn processes for various modes of visualization and content including data, time-based sequences, designing and its production.

Course Outcomes

Semester –I

Paper: I Drawing

CO 1: After study this course student will get the knowledge and skills in the use of basic tools, techniques.

CO 2: Student will learn the process to work from concept to finished products, including knowledge of paints, surfaces, two dimensional and three dimensional images.

CO 3: To learn various effects, texture and basics of art and design world.

Paper: II Colour

CO 1: Student will learn the knowledge of the using colour in the various designs.

CO 2: They will acquire the knowledge about colour theories and learn the scientific reasons behind that.

CO 3: They will understand the relation between design elements and colour importance.

Paper: III Basic Design

CO 1: To learn various elements of designs

CO 2: They gain the knowledge to implement design details in the art works.

CO 3: They learn the various design detail and its use in fashion/textile and interior world.

Paper: IV Workshop–I

CO 1: To learn about various materials of art world and its handling

CO 2: To give materials a new shape using various techniques.

CO 3: Encompasses the development of art skills.

Paper: V History of Art -I

CO 1: Ability to learn art of history in its entirety from pre-history to present.

CO 2: Ability to analyse the formal techniques stylistic, compositional characteristics of works of art.

CO 3: Ability to advance research in the field.

Paper: VI Aesthetics and Art Appreciation

CO 1: Ability to apply fundamental concepts of aesthetics towards the interpretation of art.

CO2: Students learn various art theories

CO3: They learn about the communication concepts of art and its various Indian and western concepts.

Semester –II

Paper: I Drawing & Illustration

CO 1: It helps students adopt a better understanding of the people around them and learn to build stronger relationships.

CO 2: Learning the Design and illustration fosters creativity of the student.

CO 3: Design is inherently creative.

Paper: II Colour–II

CO 1: Colour engages and inspires students, facilitating the creative and critical thinking that's so important for brainstorming original ideas and developing proficiency in complex subjects.

CO 2: Environment has a huge influence on a student's attention, creativity, concentration, and calmness, which means that designers play a significant role in helping students to learn colour aspects for fashion and interior designing.

CO 3: Colour palettes can feature a variety of shades of the same colour to set a specific mood, or layered with other colours for a more dynamic environment.

Paper: III Design & Communication

CO 1: This course help student to learn the aspects that communication design is a mixed discipline between design and information-development which is concerned with how media intervention suchas printed, crafted, electronic-media or presentations communicate with people.

CO 2: To learn various elements of designs and to implement those in the art works

CO 3: Students of communication design learn how to create visual messages and broadcast them to the world in new and meaningful ways.

Paper: IV Workshop-II

CO 1: This course aids in the learning process by allowing the student to explore the knowledge independently using various art material.

CO 2: This course is to improve students' knowledge, abilities, and skills, to monitor their assimilation of information, and to contribute to their overall development and upbringing by using various special design materials in fashion and interior world.

CO 3: To learn about various materials of art world and to give them a new shape using various techniques.

Paper: V History of Art-II

CO 1: Ability to learn art of history in its entirety from pre-history to present.

CO 2: Ability to analyse the formal techniques stylistic, compositional characteristics of works of art.

CO 3: Ability to advance research in the field.

Paper: VI Computer Application

CO 1: Software's help the students to explore the design world as maximum work is done on software's in design world.

CO 2: Latest updates versions are taught, it improve productivity Revise errors, better quality work in less time

CO 3: This course leads to success in education and employment since computer skills are integral to all areas of study and work.

Semester III

Paper: I Design Development

CO 1: Learn about developing the designs whatever is planned or thought, an implementation to the thinking is given.

CO 2: Various design techniques & styles are explored.

CO 3: Students learn about figure drawings.

Paper: II Workshop

CO 1: Student learn about various fashion/interior and textile material

CO 2: Student learn about various machines use in the design world

CO 3: Various weaving, stitching, carpentry techniques and make projects.

Paper: III Computer Aided Design

CO 1: Student learn about various computer software's of design world

CO 2: Student work on design projects which help in increased productivity and efficiency of work

CO 3: Student learns about the process of creating technical drawing with the use of software.

Paper: IV Market Survey

CO 1: Students learn about various materials available of the market for designing of the products

CO 2: Theyunderstand about new markets, upcoming trends and demand of the consumers

CO 3: Students get knowledge about various industries through industrial visits.

Paper: V Technical Theory

CO 1: Students learn about various technical aspects of fashion/ textiles and interior

CO 2: They learn about various technical details of machinery and its manufacturing

CO 3: The course help the students for understanding various theories and principles of the design world.

Paper: VI Historical Study of Fashion & Textile Designing/ Interior Designing-I

CO 1: In this student learn about various traditional and contemporary textiles, costumes, architecture, fashions, styles of the India and other parts of the word.

CO 2: Various historical periods are also studied which help in the creation of projects.

CO 3: The course comprehends the use of collection and interpretation of data.

Paper: VII Advertising & Marketing

CO 1: After studying this course the student should be able to define about various advertising and marketing aspects of his/her designer products

CO 2: It will be impart the practical knowledge of capital and revenue expenditure

CO 3: To make student learn about various about marketing techniques to be an adopted to run the business effectively by using principles of marketing.

Semester IV

Paper: I Design Development–II

CO 1: The highly effective and superior study program not only brings you huge exposure, but also brings you a wonderful opportunity to improve your creativity skills.

CO 2: The students learn designing skills that start with sketches that capture all the details of the design and thinking process.

CO 3: It incorporates the design skills, development and creation of a garment or product, as well as the distribution and marketing of products.

Paper: II Workshop

CO 1: The subjects covered in fashion design are: fashion illustration, garment construction, flat pattern technology, draping, textiles, design synthesis, life drawing, colour theory, designing collections.

CO 2: A students learn about stitching skills and interior designing skills which help a student in earning a livelihood.

CO 3: This course is important for a student and it helps them to interpret the designs and understand the design with technical ability.

Paper: III Computer Aided Design

CO 1: CAD allows designers to view designs of clothing on virtual models and in various colours and shapes, thus saving time by requiring fewer adjustments of prototypes and samples later.

CO 2: Software can help students draw, create woven textures, drape models to create patterns, adjust sizes and even determine fabric colours.

CO 3: They can also easily adapt a single design to varying materials and patterns, and build upon and alter existing designs to create new pieces.

Paper: IV Market Survey

CO 1: Students learn about materials availability in the market for designing of the products.

CO 2: They get knowledge about new fashion forecasts, upcoming trends and demand of the consumers.

CO 3: They learn about various industries through industrial visits.

Paper:V Technical Theory

CO 1: To create technical designers, fashion coordinators, fashion stylists or fashion expert, Concepts of design are very important to learn so this subject helps them to know the technical details.

CO 2: This course adds the art of applying design, aesthetics and natural beauty to clothing and its accessories. It is influenced by cultural and social attitudes.

CO 3: The courses help the students for understanding various theories and principles of the design world.

Paper: VI Historical Study of Fashion & Textile Designing/ Interior Designing- II

CO 1: It's important to understand art history in order to understand the history of fashion. Courses in the Philosophy of Art can also offer great tools for expressing your ideas and putting them into the right context.

CO 2: Various historic design periods are also studied which help in the creation of Projects.

CO 3: The course comprehends the use of collection and interpretation of data.

Paper: VII Business Studies –I

CO 1: It is very important for the students to know about the existence of the products available there in the market and to learn about various marketing strategies.

CO 2: Business Studies helps student to make more informed decisions in the everyday business of living. It gives you a better understanding of the world of work.

CO 3: It encourages students to think about how and why people start up in business and how to handle it.

Semester V

Paper:I Design Process–I

CO 1: It provides a framework for students to practice design skills.

CO 2: Design critiques, student presentations, team projects, and deadlines are all opportunities for a student to improve their skills.

CO 3: It helps students adopt a better understanding of the people around them and learn to build stronger relationships. Design fosters creativity. Design is inherently creative. By tackling old problems in new ways, students get the chance to do a double take on their own preconceptions.

Paper: II Workshop–III

CO 1: This course is an important Life Skill and is the vehicle to teach self-confidence through skill building.

CO 2: This course helps a student to develop fine motor skills, improves focus and concentration and teaches the importance of patience and self-control.

CO 3: By learning this course a student get to make something useful and can make tons of one-of-a-kind accessories, tote bags, scarves and more! Designing not only enables the student to create beautiful and heirloom items that can be passed down, they are the same skills needed to mend and alter garments and fabrics.

Paper: III Computer Aided Design

CO 1: CAD allows for the easier development of products and product management integration.

CO 2: It also allows for greater modelling and even provides a basis for virtual networking. In the designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

CO 3: Students learn the ability to producing very accurate designs; drawings can be created in 2D or 3D and rotated; other computer programmers can be linked to the design software.

Paper: IV Market Survey

CO 1: This Course helps to gather data on customers and potential customers.

CO 2: It aims to provide business decision making skills.

CO 3: The students learn about market trends which reduces the risks involved in making these decisions.

Paper: V Technical Theory

CO 1: Students learn about various technical aspects and updated technologies of fashion/ textiles and interior.

CO 2: Students learn about various technical details of machinery and its manufacturing.

CO 3: The courses help the students for understanding various theories and principles of the design world.

Paper: VI Historical Study of Fashion & Textile Designing/ Interior Designing -III

CO 1: This course allows a student to learn about various state and country history and to create modern and contemporary designs for today's world.

CO 2: This course helps to learn about ancient and old design principles and their reasons to use them.

CO 3: It helps to understand the chronological details for better designing skills.

Paper: VII Business Studies -II

CO 1: Studying business involves not only studying individuals, communities, and organizations; it involves assessing their needs and problems, as well as generating solutions.

CO 2: This subject will build a strong foundation for those students who wish to move on to further study and training in specialized areas such as management, international business, marketing, accounting, information and communication technology, or entrepreneurship.

CO 3: It will also provide practical skills for those who wish to move directly into the workplace.

Semester VI

Paper: I Design Process -II

CO 1: This course helps a student for incorporating design from the beginning allows all components of a product to work together seamlessly, providing a superior user experience.

CO 2: This course develops the ability to understand design is a plan or specification for the construction of an object or system or for the implementation of an activity or process, or the result of that plan or specification in the form of a prototype, product or process.

CO3: Student learn the process of creating a quick sketch involving considerable research, negotiation, reflection, modelling, interactive adjustment and re-design.

Paper: II Workshop -IV

CO 1: Designers often specialize in particular types of design field – for example, in men's, children's or sportswear, furniture or accessory designer.This role would normally involve: working to design instructions (known as a brief), analysing or predicting trends in fabrics, colours and shapes.

CO 2: Producing concept and mood boards (a collection of items to capture a mood, such as photos, fabric pieces and colour samples), developing basic shapes ('blocks') through patterns.

CO 3: Estimating costs for materials and manufacture, finding suppliers, supervising the making up of sample clothing items, making in-house presentations, for example to finance departments and merchandisers.

Paper: III Computer Aided Design

CO 1: It opens the doors for independent designers who may have fewer employees and therefore can't waste time and resources doing sketch after sketch.

CO 2: Software can help students draw, create woven textures, drape models to create patterns, adjust sizes and even determine fabric colours. By Introducing this technological aspect will enable students to understand a lot better and try various combinations in their design.

CO 3: Computer industry has got its new customer. Computer technology is making waves in the fashion design zone. From determining textile weaves to sizing designs; computers are a vital component of the fashion industry. It help student survives in fashion industry with technology.

Paper: IV Technical Theory

CO 1: This course is highly important in designing that helps designers to make a sensible choice of choosing fabrics that complement their design.

CO 2: This course study includes topics like dyeing, printing and weaving. Students are also taught about each fabric and its usage.

CO 3: It will explain why certain textile fabrics make cool wearing apparel as well as give an impression of coolness when used as decoration. The matter of cleanliness and maintenance must also be estimated before purchasing when that is an important factor.

Paper: V Entrepreneurship Development Programme

CO 1: Ability to develop a style that is distinctive, consistent and new ability to manage the process of communication on which fashion depends upon ability to manage strategic and marketing issues.

CO 2: The entrepreneurship in fashion and apparel design should focus on opportunities emerging through creativity, preparing the graduates to work as freelancers or self-employed or creating small enterprise.

CO 3: The framework of the entrepreneurial curriculum helps in the concepts of fashion and apparel industry with focus on design development process, fashion forecasting, production etc.

Paper: VI Exhibition Design & Display

CO 1: It helps student to learn about new platform for a multi layered communication with the audience.

CO 2: This paper focuses on museum fashion exhibitions from the designer's perspective: the opportunities and the benefits for the students themselves.

CO 3: This course helps them to learn about the various exhibitions and display techniques.

Semester VII

Paper: IDesign Process –III

CO 1: Designers often work closely with garment technologists and sample machinists. The role could also involve liaising with manufacturers (often based overseas) to make sure designs are reproduced accurately.

CO 2: This course helps designers to show off their talent to potential employers, they have to create a portfolio demonstrating their skills and creative sensibilities. Students can fill their portfolio with the work they've done during their degree program, so it's important for them to treat every assignment as if they were going to show their work to a future boss. Portfolios allow people to show off a range of skills, including their sketching, sewing, and pattern making abilities.

CO 3: Students should also familiarize themselves with what goes on behind the scenes—such as finance, sales, and marketing—particularly if they want to have their own fashion business.

Paper: II Workshop V

CO 1: This section provides a look at the earning potential of designers.

CO 2: Producing concept and mood boards (a collection of items to capture a mood, such as photos, fabric pieces and colour samples), developing basic shapes ('blocks') through patterns.

CO 3: Estimating costs for materials and manufacture, finding suppliers, supervising the making up of sample clothing items, making in-house presentations, for example to finance departments and merchandisers.

Paper: III Computer Aided Design

CO 1: Using CAD software, designers can create new sketches more quickly and more precisely. They can also easily adapt a single design to varying materials and patterns, and build upon and alter existing designs to create new pieces.

CO 2: The process of designing buildings is dominated by computers. Software tools used in the design phase can automate repetitive calculation and drawing tasks, help find new design solutions and provide a high degree of precision. This optimization makes the design process faster, clearer and more effective.

CO 3: CAD allows for the easier development of products and product management integration. It also allows for greater modelling and even provides a basis for virtual networking. In the designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

Semester VIII

Paper: I Industrial Training

CO 1: Industrial Training is the important strategy to expose students to real work life situations and to equip them with the necessary skills that intensify their job. Industrial training program or training related program can be continuously improved through formal review and evaluation of its outcome.

CO2: It is the organized way of improving and enhancing knowledge and skill set of designing students. It boosts the performance of students and helps them to meet career objectives.

CO3: The industrial training program is important for designing students. It helps them to update and master their skills.

Paper: II Design & Display / Commercial Production

CO 1: It also helps the student in improving their knowledge. It improves the versatility of the student and helps them in boosting their career.

CO 2: It also boosts their confidence once they have the skills about the particular subject they have got training in. They help you implementing the theory into realistic area.

CO 3: It involves the application of learned skills in an organization related to the students' major projects.

Department of Commerce and management

Name of Programme: B.Com.

Course Outcomes

Semester-I

Paper: Financial Accounting BCG 103

CO 1: The subject will enable the students to combine practical and theoretical knowledge of financial accounting.

CO 2: They will be able to understand the uses and users of accounting information.

CO 3: They will understand the applicability of accounting concepts, principles and conventions.

CO 4: They will learn to record basic financial transactions and prepare financial statements by understanding different capital and revenue items

CO 5: The students will be able to prepare voyage accounts, departmental accounts, branch accounts, consignment and joint venture accounts which caters to the accounting needs of various organisations

Paper: Business Organisation BCG 104

CO 1: Students will know about different forms of organization and comparison of different business forms

CO 2: They will be able to learn the functioning of stock exchanges in India

CO 3: Students will be made awareof social responsibilities of the business and business ethics.

CO 4: It will provide them the knowledge about various trade associations working for betterment of businesses in India

CO 5: It also provide knowledge about government agencies that are helping entrepreneurs and SSIs

Paper: Business Communication BCG 105

CO 1: The subject is a key to transform effective communication skills in students as the emphasis are laid on eloquence of speech, erudition of writing, emphatic listening and expressiveness of body language.

CO 2: In addition, students are taught how to communicate effectively inside an organization through memos, office orders, circulars and notices.

CO 3: They will also grasp to communicate effectively with external stakeholders via business letter, sales letters, employment letters, complaint and adjustment letters.

CO 4: In present era of competition in job market, this subject offers useful tips and strategies for clear communication and thus, assists in securing a good job coupled with carrier advancement in future.

Semester-II

Paper: Advance Financial Accounting BCG 203

CO 1: Provide practical working knowledge of tally - account creation and data entry.

CO 2: It will provide awareness about partnership deed and its practical implications and usage.

CO 3: Students will be able to perform accounting of small business through single entry system.

CO 4: It will explain to students about different use of depreciation as a means of knowing true value of asset.

CO 5: It will provide them skills for maintenance of Partnership Accounts.

Paper: Commercial Law BCG 204

CO 1: This paper widens the knowledge of students regarding Contract Act, 1872 of India. Students may learn about the formation of a valid contract and various legal formalities to form a business contract.

CO 2: Students also understand about their rights being a consumer of goods by studying Consumer Protection Act, 1986.

CO 3: They will also become familiar of sales of goods –terms and conditions, rights of buyer and seller etc. from Sales of Goods Act,1930.

CO 4: Subject also helps them to develop understanding regarding formation of a limited liability partnership, its registration process, rights &duties of working partners & winding up etc. from Limited Liability Partnership Act, 2008.

CO 5: Students are able to seek knowledge of various relevant case studies regarding all the topics.

CO 6: Students are enriched with their contractual rights and obligations after the deep study of this subject.

Paper: Functional Management BCG 206

CO 1: The subject focuses on enhancing managerial efficiency by teaching the students objectives, needs, principles and practices of management.

CO 2: In addition, corporate social responsibilities and business ethics make the students aware that the business should preserve those policies and decisions which are desirable in terms of objective and values of society to protect the interest of all the stakeholders.

CO 3: Students apprehend the different facets of management such as personnel management, production management and marketing management which create deep understanding about the intricacies of management.

CO 4: This subject also assists the students to adopt management as profession in future.

Semester-III

Paper: Corporate Accounting BCG 303

CO 1: This subject will apprehend accounting treatment of equity shares and preference shares.

CO 2: It also explains the procedure of issuing and redemption of debentures.

CO 3: They will be imparted knowledge for the preparation of final accounts of limited liability companies.

CO 4: Explains the theoretical and practical aspects of accounting treatment of amalgamation of companies &internal reconstruction.

CO 5: Provide knowledge about practical aspects of preparation of final accounts of banking companies.

CO 6: To impart practical knowledge relating to the preparation of final accounts of insurance companies.

Paper: Company Law BCG 304

CO 1: Students will have knowledge about corporate laws, their provisions and implications.

CO 2: Students will have a deep understanding of new Company Law amended in 2013 followed by new policies in the Act.

CO 3: It develops exemplary knowledge of current trends, legislatives & regulatory developments.

CO 4: Students will learn about provisions related to listing requirements in recognized stock exchanges.

CO 5: Provide an insight into resolutions, registration procedures.

Paper: Financial Management BCG 305

CO 1: The students will be able to understand both the theoretical & practical role of financial management in business corporations.

CO 2: They would be able to understand importance of risk within context of financial decision making.

CO 3: The students will learn to analyse the different sources of finance and their cost.

CO 4: The subject will make the students acquainted with deciding on optimal capital structure.

Paper: International Business BCG 306

CO 1: Students will be able to understand the basic concepts of international finance, marketing and also the various environments in which international businesses operate.

CO 2: This subject will give them an overview of the unique issues and challenges faced by firms involved in international activities.

CO 3: Students will acquire deep knowledge of different theories and techniques of this business discipline.

CO 4: They will be able to analyse the risks and opportunities dispensed for global businesses and develop practical approach to frame effective strategies and take good business decisions.

CO 5: They will be able to gauge the impact of legal and regulatory compliance on a firm's trade inventiveness.

Paper: Business Environment BCG 307

CO 1: Define and understand the various nuances of the business environment.

CO 2: Understand the role of socio-cultural factors and political – legal system on the conduct of business in the country.

CO 3: Realize the importance of micro and macro environment on business decisions.

CO 4: Understand how an entity operates in different business environment.

CO 5: Demonstrate and develop conceptual framework of business environment.

Semester-IV

Paper: Goods and Service Tax BCG 403

CO 1: Students will learn about the constitutional aspects and implementation of GST in India.

CO 2: They will be able to understand how to register under GST and eligibility for registration.

CO 3: They will get knowledge about the concept of supply of goods and service and its various types.

CO 4: Students will learn the steps of computation of GST and payment of GST.

CO 5: They will learn about the various GST return forms used by the GST payers.

CO 6: They will also be enabled to understand various concepts like GST portal, GST suvidha providers and invoice uploading.

Paper: Industrial Law BCG 404

CO 1: Students will get equipped with the latest knowledge of laws relating to Industry in India.

CO 2: They become aware about Factory Act,1948 by studying the provisions relating to health, safety & welfare of workers.

CO 3: Students are provided the knowledge of the formation of trade unions, rights and duties of its members and functioning of trade unions.

CO 4: They will understand about the employee state insurance schemes and various benefits available to the workers like health and medical benefits provided by the govt.

CO 5: Learners also come to know about the causes and reconciliation of industrial disputes between employer and employee, among employees and among employers. This is highly required for smooth functioning of the business.

CO 6: They also get knowledge about the workmen's rights under Workmen Compensation Act, 1923 in India. They also come to know about the way compensation is given by the employers to their workmen in case of accidental injuries, occupational health diseases etc.

Paper: Principles and Practices of Banking and Insurance BCG 405

CO 1: Know about the various banking institutions and banking products.

CO 2: Understand the nature of regulation in banking industry.

CO 3: Awareness of various banking innovations after nationalization.

CO 4: Gain the knowledge of insurance and various assurance products.

CO 5: Understand the various elements of regulation and control in the insurance industry.

CO 6: Understand the principles, provisions that govern the life and non-life insurance contracts.

Paper: Cost Accounting BCG-406

CO 1: It will make the students aware about various elements of cost.

CO 2: Students will learn various methods of costing.

CO 3: It will develop the understanding relating to overhead cost and its classification allocation.

CO 4: The concept activity-based accounting will also be discussed.

CO 5: Students will also gain knowledge about cost control methods like marginal costing, budgetary control, standard costing and break-even analysis.

Semester-V

Paper: Management Accounting BCG 503

CO 1: Knowing about management accounting and its objectives.

CO 2: It will help the students to understand the ways to make financial analysis.

CO 3: Explain uses of ratios for analysing the profits and position of the business.

CO 4: Students will be able to understand the concept of responsibility accounting to establish centres to fix responsibility.

CO 5: Use of fund flow statement and cash flow statement to manage the resources.

CO 6: Use of reporting system to inform the various levels of management.

Paper: Direct Tax Law BCG 504

CO 1: The subject will explain the concept of Indian Income Tax system and scope of the Act to students.

CO 2: It will also develop the practical skill computation to taxable income under various heads like; - salaries, house property, business and profession.

CO 3: Students will learn various deductions that are allowed from taxable income.

CO 4: It will also conceptually clarify the residential status and tax liability of an individual, firm, company or a cooperative society.

CO 5: Students will be able to understand sand estimate agricultural income with the help of examples.

Paper: Auditing BCG 505

CO 1: The students will get knowledge about the concept and principles of Auditing, audit process and assurance standards and need for an independent or external audit.

CO 2: They will learn about the various duties, responsibilities, rights and liabilities of auditors in regard to auditing.

CO 3: They will be able to understand the meaning of concepts that are fundamental to auditing and assurance services such as 'independence', 'evidence', 'risk', 'materiality', 'internal check', 'internal audit', 'internal control' etc.

CO 4: They will be capable to describe the processes involved in auditing as well as various audit tests and other assurance services and distinguishes between compliance and substantive testing

CO 5: They will understand the content and importance of the audit reports provided at the end of the audit or assurance service and discusses the issue of legal liability arising from audits and other assurance services

CO 6: They will acquire information about Tax Audit, Social Audit, Environmental Audit, Electronic Data Processing and other current developments in auditing.

Paper: Contemporary Accounting BCG 511

CO 1: Students will be able to understand various contemporary issues in accounting.

CO 2: They will learn about price level accounting, human resource accounting and corporate social reporting.

CO 3: They will get knowledge about recent trends in published accounts of companies.

CO 4: They will be able to understand various accounting standards used in India.

CO 5: Students will also get knowledge about BASEL norms, value added reporting and target costing.

Paper: Financial Market Operations BCG 512

CO 1: Students will learn about all markets in which securities are traded.

CO 2: Students will learn about new innovative securities e.g. derivatives and their types such as futures, options, swaps & forwards.

CO 3: All stock exchanges information, mechanism and its application is explained in detail.

CO 4: Institutional framework and their knowledge isalso imparted to students. e.g. SEBI, IFCI, IDBI, SIDBI, EXIM, NABARD etc.

CO 5: The students will be given information regarding Depositories Act, 1996 and other related laws.

CO 6: Students learn to deal with corporate sector, stock exchanges & its intermediaries.

Paper: Banking Service Management BCG 521

CO 1: Students will be able to understand the concept of banking, its structure, key players and functions of banks.

CO 2: The students will understand the lending process of banks, various lending products and types of lending.

CO 3: Developing knowledge of financial products and designing tailor made products to meet a client's requirements and communicating the same to clients.

Paper: Insurance Service Management BCG 522

CO 1: Students will be able to learn about the documentation procedure involved in applying for insurance.

CO 2: They will be able to understand the role and code of conduct for insurance agents and surveyors.

CO 3: This subject will give them practical training to learn about the computation of premiums and bonuses.

CO 4: They will get guidance regarding the procedure of claim settlement.

CO 5: They will have a deep insight into the impact of taxation, competition and regulation on the pricing of insurance products.

Paper: Computer Based Accounting BCG 531

CO 1: Students will learn about the role of computers in accounting and business.

CO 2: They will get information about various types of accounting softwares used by business entities.

CO 3: They will learn the steps to install tally in their computers and how to use this accounting software.

CO 4: Students will be practically trained about the use of tally in maintenance of accounts of the firms.

CO 5: They will learn how to retrieve the financial statements of a firm in tally and how to analyse the same

Paper: E-Commerce BCG 532

CO 1: The students will have a comprehensive understanding of the E-Commerce, current and emerging business models, and the technology and infrastructure underpinnings of the business.

CO 2: They will understand that how innovative use of the E-Commerce can help developing competitive advantage.

CO 3: They will be able to understand that how internet can help business grow.

CO 4: Students will have an understanding of technical fundamentals required for E-Commerce

CO 5: They will understand the e-Commerce marketing concepts and communications

CO 6: An understanding on the importance of security, privacy, and ethical issues as they relate to E-Commerce.

Semester-VI

Paper: Operations Research BCG 603

CO 1: The students will get knowledge of basics of Operations Research, its meaning, characteristics, scope and limitations.

CO 2: They will be able to formulate and solve Linear Programming problems using appropriate methods.

CO 3: They will have understanding to solve problem of transporting the products from origin to destination with least transportation cost.

CO 4: They will become acquainted with method to solve assignment problems, travelling salesmen problems.

CO 5: They will learn to solve Queuing model I-single channel poison arrivals with exponential service times.

CO 6: They will have in-depth knowledge about concept of game theory, its application and various methods to solve it.

Paper: Corporate Governance BCH 604

CO 1: Students will be able to develop the skills to build good leaders while following business ethics.

CO 2: They will be made aware about whistle blowing -which can help in protection while they enter corporate world.

CO 3: They will get an overview of the ways adopted by corporations to curb insider trading

CO 4: Analysis of various scandals will enable the students to understand their causes.

CO 5: The students will study the recommendations of various committees which depict the evolution of corporate governance.

CO 6: They will understand the concept of credit rating, functions of rating agencies, procedural formalities and advantages for corporations.

Paper: Workshop on Basics of Stock Exchange BCG 605

CO 1: Students will be able to understand the basics of investment and difference between investment, speculation and gambling.

CO 2: Students will have an understanding of various investment alternatives such as bank deposits, post office saving schemes, equity shares, preference shares, debentures.

CO 3: They will understand the exchanges in India such as NSE, BSE, MCX.

CO 4: They will get to know the depository system in India, its importance, dematerialization and rematerialization and the procedural formalities involved in opening demat account.

CO 5: The different types of orders and margins will be explained to the students. Students will have thorough understanding of the trading at stock exchange.

CO 6: The paper will enable the students to have an understanding of the fundamental and technical analysis of the companies.

Paper: Portfolio Management BCG-611

CO 1: The students will learn to develop relationship between risks and return measures for portfolio of assets.

CO 2: They will get thorough knowledge regarding efficient portfolios

CO 3: They will understand how savings and investment are formulated and disbursed among various assets.

CO 4: Students will understand various models like CAPM, Markowitz Model, and Sharpe's Model which are used to determine efficient portfolios.

CO 5: They will study different investment strategy which helps in decision making.

Paper: Financial Services BCG 612

CO 1: The paper will enable the students to gain an insight into the functioning, role and structure of financial institutions in the Indian Economy.

CO 2: They will acquire adequate information about the roles of intermediaries and its regulating bodies.

CO 3: Students will understand the operations, role, functioning and regulatory guidelines regarding the Merchant Banking.

CO 4: They will understand the basic concepts of mutual funds, the types and working of the mutual funds industry.

CO 5: They will get in-depth knowledge of the mechanism underlying financial services like leasing and venture capital.

CO 6: The students will be acquainted with factoring services available in India and Securitisation Act.

CO 7: They will become aware about actual scenario of various financial services including the recent developments in Plastic money, impediments to growth of these services and future scope of these services.

Paper: Foreign Exchange Management BCG 621

CO 1: Students will be able to identify foreign exchange risk management and the techniques available to business operators for various risk exposures.

CO 2: They will learn the various methods of currency forecasting.

CO 3: The paper will help the students to examine the organization of the forex market, the spot market, and the forward market.

CO 4: Learn how the information collected from the market can be used by business operators in controlling and managing foreign exchange.

CO 5: Identify operational difficulties in financing and settling foreign currency.

Paper: Risk Management and Insurance BCG 622

CO 1: Students will be able to learn about the concept of risk and design a risk management program for a business organisation.

CO 2: It will help them to know about insurance contracts and its provisions, and the basic features of property-liability insurance, life and health insurance.

CO 3: Students will be able to compare and contrast the role of insurance intermediaries.

CO 4: They will obtain knowledge about the different retirement and annuities plan for employees.

CO 5: They will understand the regulatory provisions of insurance sector and also the need of privatisation of insurance business.

Paper: E-Marketing BCG 632

CO 1: Students will be able to analyse unique e-marketing issues and challenges.

CO 2: They will be able to understand the use of various strategies such as search engine marketing, pay per click marketing, online advertising techniques etc.

CO 3: They will be able to frame an integrated and comprehensive e-marketing plan.

CO 4: They will understand the need of managing customer satisfaction in the digital age.

CO 5: The paper will help them evaluate various pricing strategies and implementation of a successful e-marketing mix.

Name of Programme: B.Com (Honours)

Course Outcomes

Group I Banking

Paper I:Banking and Financial System

CO 1: Students will be able to understand the various types of e banking and the difference between traditional banking and e banking.

CO 2: Students will have an understanding electronic fund transfer system such as NEFT, RTGS and SWIFT.

CO 3: The impact of information technology on banks will be explained to the students.

CO 4: They will get to know the risk and security aspects of e banking, different types of threats involved in e banking.

CO 5: Students will have thorough understanding of the regulatory framework of RBI group in internet banking, information system security.

CO 6: The course will enable the students to have understanding of the concept of disaster management in e banking and information system audit

Paper II: Electronic Banking and Risk Management

CO 1: This subject will help the students to have knowledge about various e-banking products and services.

CO 2: Students will get familiarized with the different electronic fund transfer systems and technologies.

CO 3: They will be able to study about the various security issues and learn about the software and technologies to combat the e-banking frauds.

CO 4: They will get equipped with innovations and global developments in the field of banking.

CO 5: They will be able to analyse the risk management framework and learn how to measure and manage various risks with different statistical techniques

Paper III: Accounting for Bankers

CO 1: The subject will make students able to understand the relevance of accounting in banks.

CO 2: Students will be provided information to interpret the provisions of Banking Regulation Act,1949 regarding final accounts of banking companies.

CO 3: The students will be able to analyse the profitability and financial position of the bank.

CO 4: Students will learn different applications of capital budgeting techniques for long period investment.

CO 5: They will get knowledge regarding accounting for NPA/provisioning/suit filed accounts.

Paper IV: Bank Marketing

CO 1: Students will understand the concept of marketing and elements of marketing mix in the context of banking.

CO 2: They will understand the marketing planning and various micro macro factors influencing the market.

CO 3: Students will get the detailed knowledge about the art of customer service as applied to banking.

CO 4: Students will grasp the concept of consumer behaviour in banking as well as marketing research conducted by banks.

CO 5: It develops the understanding about the bank's product and pricing strategies.

CO 6: Students will be made aware about various promotion strategies adopted by banks.

Group IV

Paper I: Management of International Business Operation

CO 1: Students will understand the nature, scope, structure and significance of International Business.

CO 2: They will understand the concept of global business environment i.e. social, cultural, economic, political and ecological factors.

CO 3: Students will get the detailed knowledge about foreign market entry modes.

CO 4: Students will learn the concept of mergers and acquisitions.

CO 5: It develops the understanding about the concept of social responsibility and ethics.

CO 6: Students will be made aware about various Provisions of Foreign Corrupt Practices Act

Paper II:India's Foreign Trade

CO 1: Students will learn about instruments of foreign trade and exchange control in India.

CO 2: They will get knowledge about regulatory framework for export/import operations.

CO 3: They will learn the various methods of cross boarder banking arrangements, forms of international banking, NRI/NRO accounts and cross border risk.

CO 4: Students will get the knowledge about nature of transactions in foreign exchange market and types of players.

CO 5: They will study the significance and factors affecting foreign investments as well as growth of FDI.

Paper III: International Financial Management

CO 1: Students will learn about foreign exchange systems.

CO 2: They will get knowledge about calculation of foreign exchange rates.

CO 3: They will learn the various methods of measuring and managing country risk and political risk factors.

CO 4: Students will get the knowledge about management and measurement of transaction exposures as well as operating exposures.

CO 5: They will study various risk hedging techniques like futures, options, forwards and swaps

Paper IV:International Marketing

CO 1: Students will be able to understand the contemporary issues in international marketing and acquire skills to suggest solutions for the same.

CO 2: They will be able to define and illustrate the various strategies of entering into an international market

CO 3: They will be able to study the modifications required to be made to the marketing mix that a firm requires to make when entering the global market.

CO 4: They will acquire knowledge about the role and working of various international bodies and organisations like GATT, WTO, UNCTAD, IMF etc.

CO 5: They will be able to study the foreign trade regulations and learn about the problems faced by exporters in numerous aspects.

Name of Programme: BBA

Course Outcomes

Semester-I

Paper: Basic Accounting BBA 103

CO 1: The paper enables students to understand the concept of book keeping and accounting.

CO 2: Student will learn the different concepts and conventions of accounting.

CO 3: The paper will explain the main elements of financial accounting information –assets, liabilities, revenue, expenses, financial statements and their purposes.

CO 4: It will help students in understanding the rules and principles of accountingfor recording various business transactions.

CO 5: They will learn to prepare final accounts of sole trading business and company form of organisations.

CO 6: Students will be able to get knowledge about recent trends in reporting of financial statements.

Paper: Business Organisation and Systems BBA 104

CO 1: Students will understand the main working aspects of organisations, not only from an economic point of view but also considering organisations as part of society.

CO 2: They will be able to analyse the economic environment of organisations by means of the development of conceptual areas such as industry, human resources and production.

CO 3: Knowledge of a comprehensive glossary of economic terms widely used in the analysis and discussion of behaviour organisation.

CO 4: Interpreting the meaning of the information emerging from the organisation, particularly with regard to the management of human resources and production

Paper: Business Communication BBA 107

CO 1: The students will have thorough knowledge of business communication, its importance, purpose, process and barriers to effective communication, basic models of communication and 7Cs of effective communication.

CO 2: They will be able to demonstrate a good understanding of effective organizational communication and its forms like formal and informal communication, internal and external communication.

CO 3: They will become familiar with business etiquettes.

CO 4: They will have knowledge and skills to prepare memos, circulars, notices and office orders used for internal correspondence.

CO 5: They will have understanding of correspondence with banks, customers' correspondence and secretarial correspondence.

CO 6: They will be able to prepare resumes, job application and draft interview letters, call letters and final appointment letters.

Semester-II

Paper: Business Laws BBA 203

CO 1: Effects of legal contracts binding through Indian Contract Act.

CO 2: Awareness about terms and conditions for Sale of goods.

CO 3: Being aware consumers following provisions of Consumer Protection Act.

CO 4: Use of negotiable instruments for entering into agreements.

CO 5: Knowledge about cheques and their various types used in daily routine.

CO 6: Clarity on various parties and conditions in the hire purchase agreements

Paper: Principles of Management BBA 204

CO 1: Describe the meaning, definition, nature, scope and importance of management.

CO 2: Discuss Principles of management and Scientific Management.

CO 3: Explain management technique: Management by Objective.

CO 4: Discuss in detail the functions of Management i.e. planning, organising, authority, staffing, directing, controlling.

CO 5: Understand the concept of departmentation and its types in detail.

Paper: Computer Based Accounting System BBA 206

CO 1: Students will learn about the maintenance of groups and accounts as well as about codification and hierarchy of accounts.

CO 2: They will get information about various types of accounting software used by business entities.

CO 3: They will learn about database designing through ER model and structured query language.

CO 4: Students will be practically trained about the use of tally in maintenance of accounts of the firms.

CO 5: They will learn how to view and analyse the financial statements of a firm in tally.

Paper: Fundamentals of Banking BBA 207

CO 1: The understanding of basics of banking is essential for every student especially for commerce stream and this subject cater to this need.

CO 2: The study of fundamentals of banking enriches students' knowledge in comprehending the structure of banking, its functions and role in economic development of a nation.

CO 3: Credit creation, the role of central bank, clearing house function, negotiable instrument, types of cheques and passbook impart necessary and useful information possessing practical implications. Resultant, students dealing with banks in their daily life has become uncomplicated.

CO 4: Students' knowledge in banking can also assist them to get job in banking sector in future.

Semester-III

Paper: Fundamentals of Human Resource Management BBA 304

CO 1: Describe the Nature, Scope, Objectives and Functions of Human Resource Management.

CO 2: Explain the concept of Human Resource Planning recruitment and Selection of Human Resource, Training and Development of Human Resource.

CO 3: Discuss in detail Employee Retention Strategies.

CO 4: Measure the Methods and Techniques of Performance Appraisal.

CO 5: Analyse the Methods of Job Evaluation.

Paper: Fundamentals of Marketing Management BBA 305

CO 1: Marketing management, as a part of curriculum of B.Com. Sem. 3, benefits the students by enhancing their knowledge and skill in perceiving challenges and threats of external marketing environment and developing appropriate marketing strategies to adapt with it.

CO 2: Further, through practical examples, learn to create suitable product, place, price and promotion mix for segmenting, targeting and positioning the market segment with the aim to satisfy consumers.

CO 3: Besides, this subject ameliorates students' ability to understand intricacies of marketing and thus, help them to adopt marketing as a profession in future.

Paper: Indian Financial System BBA 306

CO 1: Students seek information regarding Securities Contract Act, SEBI, RBI and capital markets.

CO 2: Different conceptual framework of IRDA Act& its implications is grabbed by the students.

CO 3: The information regarding FDI & FII'S is providing an insight towards the foreign collaborations.

CO 4: Indian financial system & its overview is very important to study the economic impact.

CO 5: They gain knowledge about market players.

Paper: Management Accounting BBA 307

CO 1: Explain how management accounting plays important role in business decision making.

CO 2: How management accounting contributes to financial reporting and how it is different from financial accounting.

CO 3: Read, interpret and analyse financial statements with the various tools of management accounting to assess the financial performance and position of a company.

CO 4: Understand, define and implement management control systems and responsibility accounting.

CO 5: Develop the financial reports for effective communication in decision making process.

Semester-IV

Paper: Financial Management BBA 403

CO 1: The subject will familiarize the students with the functional areas and principles of financial management and they will acquire the knowledge to manage the finance and financial requirements in business.

CO 2: Student will get knowledge about theories and factors affecting the capital structure of the business and financial leverage to form long-term financial policies for business.

CO 3: They will understand the common factors influencing dividend policy and the various theories of dividend policy.

CO 4: They will be capable to analyse the capital investment decisions and to identify relevant cash flows for capital budgeting projects and apply various methods to analyse projects.

CO 5: They will learn to apply techniques for estimating the cost of each component of the cost of capital and understand how to assemble this information into a cost of capital.

CO 6: They will know the concept of leverage and the benefits and costs associated with debt financing.

CO 7: The students will recognize the various long-term and short- term sources of funds for a business firm.

Paper: Production and Operations Management BBA 404

CO 1: Familiarize with the concept of concept of production and operations management.

CO 2: To understand the new product design and development.

CO 3: The students will be able to get knowledge about plant location and layout as well as production scheduling techniques.

CO 4: Understand the concept, importance, factors affecting the productivity and methods to improve the same.

CO 5: To know about quality and total quality management.

CO 6: To acquire in-depth knowledge about inventory management and decisions.

Paper: Business Environment BBA 405

CO 1: Familiarize with the nature of business environment and its components.

CO 2: To understand the different environment in the business climate.

CO 3: The students will be able to demonstrate and develop conceptual framework of business environment and generate interest in international business.

CO 4: Understand the definition of ethics and the importance and role of ethical behaviour in business world today.

CO 5: To know the different environment like, political, technological and economic environment in the business

CO 6: To acquire in-depth knowledge about legal environment etc.

Paper: Operations Research BBA 406

CO 1: Knowing the basic concepts, models and statements of operation research theory.

CO 2: To formulate and solve problems as networks and graphs to improve decision making.

CO 3: To construct linear programming models and discuss the solution techniques.

CO 4: To build and solve transportation models and assignment models.

CO 5: To use CPM and PERT techniques to plan, schedule and control project activities.

CO 6: To propose the best strategy using decision making methods under uncertainty and game theory

Paper: Fundamentals of Insurance BBA 407

CO 1: Students will be given knowledge to understand the conceptual aspects and principles of insurance.

CO 2: They will be able to understand the relevance of insurance in the present scenario.

CO 3: Students will be familiar with provisions of insurance act 1938, LIC act 1956, GIC act 1972 and IRDA 1999 in detail.

CO 4: They can evaluate different types of insurances to opt in their real life.

CO 5: Learners will come to know the role and code of conduct for insurance agents and insurance specialists.

Semester-V

Paper: Company Law BBA 503

CO 1: Understand the legal regulation of companies through an analysis of the key characteristics of the corporation.

CO 2: Understand the structure and composition of the company boards and their general duties as the directors.

CO 3: To get knowledge about key documents of companies i.e. MOA, AOA and prospectus and their implications over various decisions.

CO 4: Know the basic aims and the nature of insolvency regimes and the process of liquidation and its administration. Evaluate and interpret complex case materials and apply them to practical corporate problems

Paper: Entrepreneurship and Small Business BBA 504

CO 1: Students will be able to understand both the theoretical and practical role of entrepreneurship in the present business scenario.

CO 2: The subject will enhance entrepreneurial skills of the students in their real life.

CO 3: Students will be well educated about the role of the government in organising entrepreneurial development programmes.

CO 4: It will be easy for them to learn the art of strategic planning in respect of finance, production, marketing, and risk management.

CO 5: They can obtain information regarding the contribution of commercial banks in promoting and servicing small business.

Paper: Cost Accounting BBA 505

CO 1: It will make the students aware about various elements of cost.

CO 2: Students will learn various methods of costing.

CO 3: It will develop the understanding relating to overhead cost and its classification allocation.

CO 4: It will also introduce students to activity-based accounting.

CO 5: Students will also gain knowledge about cost control methods like marginal costing, budgetary control, standard costing and break-even analysis.

Paper: Consumer Behaviour BBA 511

CO 1: Identify the major influences in consumer behaviour.

CO 2: Distinguish between different consumer behaviour influences and their relationships.

CO 3: Establish the relevance of consumer behaviour theories and concepts to marketing decisions

CO 4: Implement appropriate combinations of theories and concepts.

CO 5: Recognise social and ethical implications of marketing actions on consumer behaviour.

CO 6: Use most appropriate techniques to apply market solutions.

Paper: Advertising and Sales Management BBA 512

CO 1: Demonstrate a clear understanding of major marketing concepts in writing and orally using proper business communications techniques.

CO 2: Develop an effective sales compensation plan.

CO 3: Evaluate the performance of a sales person

CO 4: Organize sales territories to maximize selling effectiveness

CO 5: Evaluate sales and sales management strategies in relation to current legal and ethical standards of practice

Semester-VI

Paper: Income Tax BBA 603

CO 1: The subject will introduce students to the concept of Indian Income Tax system and scope of the act

CO 2: It will also develop the practical skill computation to taxable income under various heads like; - salaries, house property, business and profession.

CO 3: Students will learn various deductions that are allowed from taxable income.

CO 4: It will also conceptually clarify the residential status and tax liability of an individual, firm, company or a cooperative society.

CO 5: Students will be able to segregate and estimate agricultural income with the help of examples.

Paper: Fundamental of Capital Markets BBA 604

CO 1: Explain basic concepts about capital market.

CO 2: Classify the Functions of capital market.

CO 3: Describe the Components of capital market.
CO 4: Analyse various Instruments in capital market.
CO 5: Analyse the Stock Exchanges in India.
CO 6: Explain various requirements of Listing.
CO 7: Deal with Security Market Indices.

Paper: Service Marketing BBA 611

CO 1: Examine the nature of services, and distinguish between products and service.
CO 2: Identify the major elements needed to improve the marketing of service
CO 3: Examine service delivery gaps and their removal.
CO 4: Develop an understanding of the roles of relationship marketing and customer service in adding value to the customer's perception of a service.
CO 5: Appraise the nature and development of a services marketing strategy
CO 6: Recognise how services marketing principles can be used as a conceptual framework to help managers identify and solve marketing problems.
CO 7: Understanding service blue printing and process of service delivery.

Paper: E- Marketing BBA 612

CO 1: Students will recognize the importance of e-marketing in current business environment and frame its objectives.
CO 2: Practically, they will be able to evaluate the different digital marketing tools such as SEO, SEM, PPC, Social media and Blogs
CO 3: They will acquire knowledge about segmentation, targeting and positioning strategies and will be able to frame an e-marketing mix plan.
CO 4: It will help them to compare and contrast different payment gateways.
CO 5: They will understand the scope of smart phone applications.

Name of Programme: B.Voc. (Banking and Financial Services)

Course Outcomes

Semester-I

Paper: Fundamentals of Management BVC-103

CO 1: Describe the Meaning, Definition, Nature, Scope and Importance of Management.
CO 2: Discuss Principles of Management and Scientific Management.
CO 3: Explain Management Technique: Management by Objective.
CO 4: Discuss in detail the functions of management i.e. planning, organising, authority, staffing, directing, controlling.
CO 5: Understand the concept of departmentation and its types in detail.

Paper: Principles and Practice of Banking BVC 104

CO 1: To describe the context of banking: the financial system.
CO 2: Explain the principles of banking to students.
CO 3: Elucidate the broad functions of banks to students.
CO 4: Students will analyse and explain the concept of money laundry.
CO 5: It also Describe the components of the balance sheets of banks to students.
CO 6: Elucidate the liability and asset portfolio management " problem" of banks.

Paper: Principles and Practices of Insurance BVC 105

CO 1: Students will be able to understand the structure and components of Indian Financial System.
CO 2: Students will have an understanding of the role of RBI being apex body and as a regulator of all the banks.
CO 3: The structure of development banks and NBFCs will be explained to the students.
CO 4: They will get to know about the various instruments of money market and capital market.

CO 5: Students will have thorough understanding of the role of SEBI in investor protection.

CO 6: The working and eligibility criterion of various functionaries on stock exchange such as broker, sub broker, market maker, jobbers, portfolio consultants etc. will be explained to the students.

CO 7: The course will enable the students to have understanding of the various financial instruments such as shares, debentures, zero coupon bonds, derivatives etc.

Paper: Indian Financial System BVC 106

CO 1: Students will be able to understand the structure and components of Indian Financial System.

CO 2: Students will have an understanding of the role of RBI being apex body and as a regulator of all the banks.

CO 3: The structure of development banks and NBFCs will be explained to the students.

CO 4: They will get to know about the various instruments of money market and capital market.

CO 5: Students will have thorough understanding of the role of SEBI in investor protection.

CO 6: The working and eligibility criterion of various functionaries on stock exchange such as broker, sub broker, market maker, jobbers, portfolio consultants etc. will be explained to the students.

CO 7: The course will enable the students to have understanding of the various financial instruments such as shares, debentures, zero coupon bonds, derivatives etc.

Paper: Banking Operation Simulation BVC 107

CO 1: Students will be able to understand the techniques of credit control and the methodology of credit creation.

CO 2: The different types of bank accounts and the procedural formalities involved in opening the accounts will be explained to the students.

CO 3: Students will have an understanding of different bank forms and documents like pay in slip, withdrawal forms and cheques.

CO 4: They will get to know the principles of lending and loan policy, basics of loan appraisal and the types of advances.

CO 5: The different types of negotiable instruments like cheques, bills of exchange and promissory notes will be explained to the students.

CO 6: Students will have thorough understanding of the tools and techniques of risk management.

CO 7: The course will enable the students to have understanding of the innovations in banking such as internet banking, phone banking, universal and narrow banking, bancassurance.

Semester-II

Paper: Financial Services BVC- 204

CO 1: Students will be able to understand the various kinds of financial services and their role in the Indian financial system.

CO 2: Students will have an understanding of the structure and regulation of merchant banking in India.

CO 3: The types of leasing, its pros and cons, hire purchase, legal aspects of hire purchase and its tax implications will be explained to the students.

CO 4: They will get to know the principles of lending and loan policy, basics of loan appraisal and the types of advances.

CO 5: Students will be able to understand the types of mutual funds and their constitutions and management.

CO 6: They will have an understanding of the various modes of consumer finance, role of consumer finance in financial system, procedural formalities involved in getting consumer finance.

CO 7: They will get to know the housing finance system and the refinance schemes of HFCs.

CO 8: The depository system and the process of dematerialization and rematerialization will be explained to the students.

Paper: Mutual Funds BVC- 206

CO 1: Students can understand the role of mutual fund in Indian financial market.

CO 2: They will obtain practical knowledge to invest in mutual fund.

CO 3: The subject will make them well versed regarding regulatory and legal environment of mutual fund.

CO 4: They will get to know the principles of lending and loan policy, basics of loan appraisal and the types of advances.

CO 5: Students can categorise different mutual fund schemes.

CO 6: Learners can use different measures of risk and return to invest in mutual fund.

Semester-III

Paper: Business Laws BVC- 302

CO 1: Students will be able to understand provisions of Indian Contract Act, 1972 in detail regarding essentials of a valid contract, how to discharge a contract, remedies for breach of contract.

CO 2: Practically it would be easy for them to learn about concepts of Pledge, Hire Purchase, Indemnity and Guarantee and sale by Auction.

CO 3: The subject will make the students acquainted with their rights as consumer and various forums for filing of complaints in case they are not satisfied with various products & services being supplied to them.

CO 4: They would have deep understanding of Negotiable Instrument Act, 1881 covering the concepts of Cheques, Bill of Exchange & Promissory Notes.

Paper: Basic Accounting for Financial Manager + Tally BVC- 303

CO 1: Understand fundamental accounting concepts and principles.

CO 2: Apply the essential numerical skills required for book keeping and accounting.

CO 3: Record the transactions in the appropriate ledger accounts using the double entry bookkeeping system.

CO 4: Balance off ledger accounts at the end of an accounting period.

CO 5: Prepare a trial balance, balance sheet and a profit and loss account.

CO 6: Evaluate the financial performance of an organization using various financial reports.

Paper: Operational Risk Management BVC- 304

CO 1: Understand the governance structures, systems, procedures and cultural aspects necessary for an organization to successfully manage operational risk.

CO 2: Understand the methods to manage an organization's risk, risk optimization, management of market risk, credit risk, operational and other risk.

CO 3: Identify the approaches available to banks under Basel III for the calculation of regulatory capital for operational risk.

CO 4: Demonstrate knowledge of the range of financial and financial related risks facing organizations.

Paper: Financial Statement Analysis BVC-305

CO 1: The paper will acquaint the students with types, nature and qualitative characteristics of financial statements as well make them understand the balance sheet and profit and loss account as per revised schedule.

CO 2: Students will have an understanding of methods of financial statement analysis, common size statements, comparative statements, trend analysis.

CO 3: The different types of ratios such as liquidity ratios, profitability ratios, activityreatios will be explained to the students.

CO 4: The Students will be able to understand the types of working capital and factors affecting working capital.

CO 5: They will have an understanding of analysis of fund flow statement, cash flow statement and difference between cash flow statement and fund flow statement.

CO 6: The concept of optimum credit policy, credit policy variables, credit standards, collection policy etc. will be explained to the students.

CO 8: The students will be able to understand the objectives of inventory management and selective inventory control techniques such as ABC, VED, JIT.

CO 9: The concept of optimum credit policy, credit policy variables, credit standards, collection policy etc. will be explained to the students.

Paper: Bank Credit Management BVC 306

CO 1: Safeguarding customer risk, settling outstanding balances and improving cash flow are three key objectives of credit management that are imperative to founding success.

CO 2: Emphasis the need and goals of establishing a sound credit policy.

CO 3: Show how an optimum credit policy can be established.

CO 4: Explain the credit policy variable.

CO 5: Indicate the credit procedure for control of individual.

CO 6: Suggests methods of monitoring receivables.

Semester-IV

Paper: Business Ethics and Corporate Social Responsibility BVC-401

CO 1: Define, explain and illustrate the theoretical foundations of business ethics.

CO 2: Recognize and resolve ethical issues in business through established methodologies.

CO 3: Explain the role of managers in setting standards for ethical behaviour.

CO 4: Explain the credit policy variable.

CO 5: Consider any moral obligations of businesses to environment and to people in other countries.

CO 6: Investigate whether ethics set any boundaries on marketing, sales and advertising.

CO 7: Present the concept of Corporate social responsibility and its relevance to ethical business activity.

Paper: Business Environment BVC 402

CO 1: Define and understand the various nuances of the business environment.

CO 2: Understand the role of socio-cultural factors and political – legal system on the conduct of business in the country.

CO 3: Realize the importance of micro and macro environment on business decisions.

CO 4: Understand how an entity operates in different business environment.

CO 5: Demonstrate and develop conceptual framework of business environment.

Paper: Entrepreneurship Development BVC 403

CO 1: Students will be able to understand both the theoretical and practical role of entrepreneurship in the present business scenario.

CO 2: The subject will enhance entrepreneurial skills of the students in their real life.

CO 3: Students will be well educated about the role of the government in organising entrepreneurial development programmes.

CO 4: It will be easy for them to learn the art of strategic planning in respect of finance, production, marketing, and risk management.

CO 5: They can obtain information regarding the contribution of commercial banks in promoting and servicing small business.

Paper: Investment Management BVC 404

CO 1: Students will have the knowledge and skills to select and employ base level tools for financial analysis and Students will be able to use time value of money methodology.

CO 2: Students will have the knowledge and skills to analyze companies for investment purposes.

CO 3: Students will have the knowledge and skills to develop portfolio strategies for individual and institutional investors.

CO 4: Students will have the knowledge and to operate ethically as investment management professionals.

CO 5: Students will be able to develop an appropriate portfolio for a given investor and market conditions.

CO 6: Students will be able to develop investment policy statements for institutional and individual investors.

Paper: Financial Market Operations BVC-406

CO 1: Describe the different components of a financial system and their role.

CO 2: Explain the recent developments in the Indian financial system

CO 3: Describe the instruments, participants and operation of the money market.

CO 4: Describe the methods of issuing shares and role of intermediaries in the primary market.

CO 5: Describe the trading mechanism in the stock market.

CO 6: List the various speculators and describe the speculative activities.

Semester-V

Paper: Financial Management BVC 501

CO 1: The students will be able to understand both the theoretical & practical role of financial management in business corporations.

CO 2: They would be able to understand importance of risk within context of financial decision making.

CO 3: The students will learn to analyse the different sources of finance and their cost.

CO 4: The subject will make the students acquainted with deciding on optimal capital structure.

Paper: Operations Management BVC 502

CO 1: Helps the students in understanding the concept of Operations Management and Productivity.

CO 2: Helps the students in solving and analyzing problems using different techniques.

CO 3: Students will be able to develop and evaluate alternate managerial choices and identify optimal solutions.

CO 4: Students will be able to develop suitable material handling principles and practices in the operations.

Paper: Organisatonal Behaviour BVC- 503

CO 1: Students can learn about behavioural aspects of human beings by studying in detail concepts of Personality, Values, Attitude, and Emotions & Moods.

CO 2: They will be able to understand how to work in groups, factors affecting group decision making.

CO 3: The subject will make students well versed with consequences of stress and coping up strategies.

CO 4: The students can very easily interpret conceptualization of whistle blowing, organisational citizen behaviour.

Paper: Security Analysis 504

CO 1: Understand the various alternatives available for investment.

CO 2: Learn to measure risk and return. Find the relationship between risk and return.

CO 3: Value the equities and bonds.

CO 4: Gain knowledge of the various strategies followed by investment practitioners. Identify, formulate and solve investment problems.

CO 5: Identify, assess and evaluate common securities.

CO 6: Implement and review security valuation.

Paper: Treasury Management BVC-505

CO 1: They will also learn how to do liquidity management in business.

CO 2: They will be able to understand the treasury culture prevailing in the business as well as the treasury policies followed by the business.

CO 3: Students will learn about the credit rating methodology used to provide credit ratings to the institutions.

CO 4: They will learn about the method of cash flow forecasting.

CO 5: They will understand how the clearing and settlement of domestic as well as international transactions is done.

Paper: E-Banking BVC-506

CO 1: Students will be able to understand the concept of money, money supply and money creation.

CO 2: Students will have an understanding of the financial system and its components.

CO 3: They will understand the role and functions of banks, structure of banking and the procedural formalities involved in opening various types of accounts such as firms, companies, individuals, HUF, trusts, societies etc.

CO 4: They will get to know the risk and security aspects of e banking, different types of threats involved in e banking.

CO 5: Students will have thorough understanding of the regulatory framework of RBI group in internet banking, information system security.

CO 6: The course will enable the students to have understanding of the concept of disaster management in e banking and information system audit.

Semester-VI

Paper: Human Resource Management BVC-601

CO 1: Students can learn about management of human resources & challenges being faced by human resource department in an organisation.

CO 2: It will be easy for them to understand role of HRM in 21st century.

CO 3: Subject will make them well versed with the various techniques of training, recruitment procedure being followed, and motivational aspect of human resources.

CO 4: Practically it would be easy for them to have an idea about work patterns, diversity management & unemployment issues.

Paper: Marketing of Financial Services BVC-602

CO 1: Define, explain and illustrate some of the frameworks and approaches that are helpful in marketing financial services

CO 2: Discuss to position value propositions, products and brands in customers' minds.

CO 3: To develop new products (goods and services) that add value to consumers and firms.

CO 4: To price financial products.

Paper: Financial Risk Management BVC-603

CO 1: Practical aspects about management of financial risk will enable students to take wise decisions.

CO 2: Students will learn about various financial risk associated with investment of fund & tools for management of risk.

CO 3: Students are given practical knowledge regarding derivatives.

CO 4: The subject will make them well versed with the understanding of trading process and valuation of futures, options, swaps & forward contracts.

Paper: International Financial Management BVC-604

CO 1: Students will be able to understand the foreign exchange system, international monetary system and the European monetary system.

CO 2: Students will have an understanding of spot and forward market, determination of exchange rate, factors affecting currency value and the concept of arbitrage and law of one price.

CO 3: They will understand the concept of interest rate parity theory, purchasing power parity, Fisher effect and international Fisher effect.

CO 4: They will get to understand the concept of balance of payment and the international flow of goods, services and capital.

CO 5: The various types of exposures such as transaction exposure, economic exposure and translation exposure and their management will be explained to the students.

CO 6: The students will understand the foreign exchange instruments, recent developments in derivative market in India and the concept of currency futures.

Paper: International Banking BVC- 605

CO 1: Students will be able to analyse various international sources of finance.

CO 2: Students will gain immense knowledge regarding provisions of foreign exchange act.

CO 3: The learners will be imparted practical knowledge to deal in international financial market.

CO 4: Students will come to know how international banking operations are being done.

CO 5: They can understand the role of international financial institutions for promoting international trade.

CO 6: The students will understand the foreign exchange instruments, recent developments in derivative market in India and the concept of currency futures.

Paper: Portfolio Management BVC- 606

CO 1: Understand various alternatives available for investment.

CO 2: Find the relationship between risk and return.

CO 3: Develop understanding of Markowitz Diversification Model, Capital Market Theory and Arbitrage Pricing Theory.

CO 4: To Value the Equities and Bonds.

CO 5: Gain knowledge of various Equity Portfolio Management Strategies and Bond Portfolio Management Strategies followed by investment practitioners.

CO 6: Evaluate the measures of Portfolio Performance.

Name of Programme: M.Com

Course Outcomes

Semester-I

Paper: Management and Organisation Behaviour MC 103

CO 1: Students can learn about behavioural aspects of human beings by studying in detail concepts of Personality, Values, Attitude, and Emotions & Moods.

CO 2: They will be able to understand how to work in groups, factors affecting group decision making.

CO 3: The subject will make students well versed with consequences of stress and coping up strategies.

CO 4: The students can very easily interpret conceptualization of whistle blowing, organisational citizen behaviour.

CO 5: The students will learn Management Technique: Management by Objective.

Paper: Business Environment MC104

CO 1: This paper provides the Information to the students about the internal as well as external environment affecting any business organization.

CO 2: Students become aware of various govt. rules & regulations and Policies relating to business.

CO 3: They understand foreign trade Policy of India relating to past and current scenario.

CO 4: They also come to know about the Balance of payment and Balance of Trade Position of India.

CO 5: They equip with the latest amendments in the current Budgets.

CO 6: This paper provides them the data relating to various economic policies &economic planning of India since inception.

CO 7: They also understand the limitations of various laws and suggestions for the improvement of the policies framed by our government.

Paper: Management Accounting and Control System MC 105

CO 1: Evaluate the global context for taking managerial actions of planning, organizing and controlling.

CO 2: Assess global situation, including opportunities and threats that will impact management of an organization.

CO 3: Integrate principles into management practices.

CO 4: Understand the concepts related to Business.

CO 5: Demonstrate the roles, skills and functions of management.

CO 6: Analyze effective application of subject knowledge to diagnose and solve organizational problems and develop optimal managerial decisions.

CO 7: Understand the complexities associated with management of human resources in the organizations integrate the learning in handling these complexities. Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.

CO 8: Demonstrate the applicability of analyzing the complexities associated with management of individual behaviour in the organization.

CO 9: Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.

Semester-II

Paper: Corporate Financial Accounting and Auditing MC 201

CO 1: This subject will apprehend accounting treatment of Equity shares and preference shares.

CO 2: It also provides knowledge about detailed procedure of issuing and redemption of debentures.

CO 3: It also imparts practical skills for the preparation of final accounts of limited liability companies.

CO 4: Students will learn various theoretical and practical aspects of accounting treatment of amalgamation of companies & internal reconstruction.

CO 5: It provides practical aspects of preparation of final accounts of banking companies to students.

CO 6: It provides practical skills for preparation of final accounts of insurance companies to students.

Paper: Financial Management MC 202

CO 1: This paper helps the learners to know about the various sources from which funds can be raised in a business and the ways to use these funds in an optimum way.

CO 2: Students are able to learn financial planning so as to become good financial managers.

CO 3: They can also understand about the framework of various projects which may help them in their future career.

CO 4: It is possible to do cost-benefit analysis of each project, evaluation of the proposals & to take good decision –making on financial matters.

CO 5: They can learn to make long term financial planning, calculation of cost of various sources of funds, dividend distribution decision by the companies, investment planning, capital-structure decisions and working capital management techniques.

Paper: Marketing Management MC 204

CO 1: The students will be able to develop the understanding of concept of human resource management and its relevance in organisation.

CO 2: They will be able to demonstrate a basic understanding of different tools used in forecasting and planning human resources needs.

CO 3: They will understand meaning of recruitment and selection, its techniques and problems associated with them.

CO 4: They will become acquainted with training and development needs, objectives and various methods used to train employees.

CO 5: They will learn to compare and contrast the different techniques involved in performance appraisal process.

CO 6: They will get knowledge regarding the concept of job evaluation and its methods, various types of incentives and fringe benefits, grievance handling machinery in an organisation.

CO 7: They will be aware of reasons, consequences of indiscipline in an organisation and approach to maintain discipline.

Semester-III

Paper: Banking and Insurance Services MC 301

CO 1: This Paper is very useful for the learners to know about the functions & roles of Banks, types of Banks & structure of banking system.

CO 2: Students can get latest information relating to updates of banks, their growth rates, new facilities to customers at their disposal.

CO 3: They can understand the role of banks in the upliftment of society, women, small scale Industries, rural population & other weaker sections of society.

CO 4: It helps them to understand the Procedure of loan facilities of the Banks, cost incurred and repayment schedules.

CO 5: This paper also focuses on insurance industry of India, Students can learn about the different insurance sectors, schemes, benefits of these schemes & cost incurred etc.

CO 6: They can also know about the various formalities or paper work involved in Insurance along with different Insurance Plans.

CO 7: They will be aware of reasons, consequences of indiscipline in an organisation and approach to maintain discipline.

Paper: Contemporary Accounting MC 311

CO 1: Students will be able to understand various contemporary issues in accounting.

CO 2: They will learn about price level accounting, human resource accounting and corporate social reporting.

CO 3: They will get knowledge about recent trends in published accounts of companies.

CO 4: They will be able to understand various accounting standards used in India.

CO 5: Students will also get knowledge about BASEL norms, value added reporting and target costing.

CO 6: They will get knowledge regarding the concept of job evaluation and its methods, various types of incentives and fringe benefits, grievance handling machinery in an organisation.

CO 7: They will be aware of reasons, consequences of indiscipline in an organisation and approach to maintain discipline.

Paper: Consumer Behaviour MC 351

CO 1: Consumer Behaviour, as part of curriculum of M. Com Sem. 3, imparts knowledge & skill to the students to understand how dynamism in consumer behaviour imposes a great challenge to marketers besides understanding the strategies that are needed to cater to this issue to attain success.

CO 2: Students become more aware and demanding while purchasing goods and services. Thus, they learn how to behave as rational consumer in a complexed market place.

CO 3: Student apprehend how motivation, perception, learning, attitude, life style, family, reference group, social class and culture shape consumer behaviour and hence, learn suitable marketing strategies to serve consumers better to delight them.

Paper: Retail Management MC 352

CO 1: Students will attain the Insight about retail sector.

CO 2: Implementation of pricing strategies in own business.

CO 3: Setting up and trading through online websites.

CO 4: Internal setup to attract customers by large.

CO 5: Impact of location while setting up new business.

CO 6: A deep walk to establishing and setting up business and brands.

Semester-IV

Paper: International Accounting MC 401

CO 1: Students will learn about interaction between accounting and its environment.

CO 2: They will get the knowledge about international financial reporting.

CO 3: They will learn how to do international financial analysis.

CO 4: Students will get the knowledge about financial reporting in US, UK, China, Japan and India

CO 5: They will study about convergence of accounting standards and accounting for foreign currency transactions and translations.

CO 6: They will get knowledge about international harmonisation and methods of international transfer pricing.

Paper: E-Commerce MC402

CO 1: Students will be able to understand the goals of e- commerce, scope of e- commerce and its advantages and disadvantages

CO 2: Students will have an understanding of various e business models such as B2B, C2C, C2B and website as a market place.

CO 3: They will understand the online payment mechanism, electronic payment system, payment gateways and the tools for promoting websites.

CO 4: They will get to understand the security and legal aspects of e commerce and the threats involved in e-commerce.

CO 5: The provisions of IT Act, 2000 will be explained to the students.

CO 6: The students will understand the emerging trends in e business such as e governance, digital commerce, mobile commerce, e marketing, e procurement.

Paper: International Financial Management MC 411

CO 1: Students will be able to understand the foreign exchange system, international monetary system and the European monetary system.

CO 2: Students will have an understanding of spot and forward market, determination of exchange rate, factors affecting currency value and the concept of arbitrage and law of one price.

CO 3: They will understand the concept of interest rate parity theory, purchasing power parity, Fisher effect and international Fisher effect.

CO 4: They will get to understand the concept of balance of payment and the international flow of goods, services and capital.

CO 5: The various types of exposures such as transaction exposure, economic exposure and translation exposure and their management will be explained to the students.

CO 6: The students will understand the foreign exchange instruments, recent developments in derivative market in India and the concept of currency futures.

Paper: Financial Markets and Financial Services MC 412

CO 1: Students will have knowledge about financial structure of the economy as a whole.

CO 2: They tend to find out difference between various financial instruments tradable in the markets.

CO 3: Learn the concepts like Cash Flows, Discounted Rates, & Valuation Models etc.

CO 4: They gain knowledge about financial intermediaries like Discount houses, Issue Houses, Merchant Banks etc.

CO 5: They come across to study the constitutions of various companies which are major players in capital markets.

Paper: Corporate Tax Law and Planning MC 413

CO 1: The students will be able to identify the difference between Tax planning, Tax avoidance and Tax evasion.

CO 2: They will become acquainted with rules regarding residential status of a company.

CO 3: The students will be able to compute gross total income of the companies.

CO 4: The students will able to describe how the provisions in the corporate tax laws can be used for tax planning.

CO 5: The students will have knowledge of many incentives given to companies in the form of deductions, exemptions, rebates, reliefs.

CO 6: The students will be able to analyse various management decisions like own or lease, make or buy, shut down or continue etc. from the point of view of tax planning.

CO 7: The students will be able to understand tax issues relating to business restructuring like amalgamation, demerger, slump sale.

CO 8: The students will have knowledge of double taxation and double taxation relief provisions in India.

Name of Programme: Post Graduation Diploma in Business Management

Course Outcomes

Semester-I

Paper: Management and Organisational Behaviour PGDBM 101

CO 1: Students will be able to understand the development of the field of organizational behaviour and explain the micro and macro approaches.

CO 2: Students will be able to analyze and compare different models used to explain individual behaviour related to motivation and rewards.

CO 3: It will help the students to identify the processes used in developing communication and resolving conflicts.

CO 4: Students will get to know about group dynamics and demonstrate skills required for working in groups (team building).

CO 5: It will help them to identify the various leadership styles and the role of leaders in a decision-making process.

CO 6: The students will be able to analyse various management decisions like own or lease, make or buy, shut down or continue etc. from the point of view of tax planning.

Paper: Business Economics and Environment PGDBM 102

CO 1: Explain basic concepts about Nature and Scope of Economics.

CO 2: Develop understanding of Law of Demand and Elasticity of Demand.

CO 3: Develop understanding of Utility Analysis and Indifference Curve Analysis.

CO 4: Describe the Social Responsibility of Business.

CO 5: Understand the concept of Business Environment and its types i.e. economic, political, socio-cultural, technological, international etc.

CO 6: Provisions of Consumer Protection Act.

CO 7: Provisions of Environment Protection Act.

Paper: Financial Accounting PGDBM 103

CO 1: Students can interpret accounting information for various purposes.

CO 2: Students will learn rules regarding double entry system of book keeping.

CO 3: They will come to know how to record, classify and summarise accounting transactions.

CO 4: Practically, the students will be able to analyze the financial position and profitability of the organisation.

CO 5: Students will be educated to understand the provisions of companies act 2013 regarding final accounts of company form of organisation.

Paper: Marketing Management PGDBM 104

CO 1: Marketing management, as a part of curriculum of M.Com. Sem. 2, benefits the students by enhancing their knowledge and skill in perceiving challenges and threats of external marketing environment and developing appropriate marketing strategies to adapt with it.

CO 2: Further, through practical examples, case studies, seminars, assignments, they learn to create suitable product, place, price and promotion mix for segmenting, targeting and positioning the market segment with the aim to satisfy consumers.

CO 3: Besides this, building consumer value and relationship, cause related marketing, e-marketing, internal marketing, marketing research ameliorate student's ability to understand intricacies of marketing and thus, help them to adopt marketing as a profession to work at global arena.

Paper: Human Resource Management PGDBM 105

CO 1: Students can learn about management of human resources & challenges being faced by human resource department in an organisation.

CO 2: It will be easy for them to understand role of HRM in 21st century.

CO 3: Subject will make them well versed with the various techniques of training, recruitment procedure being followed, and motivational aspect of human resources.

CO 4: Practically it would be easy for them to have an idea about work patterns, diversity management & unemployment issues.

Semester-II

Paper: Production Planning and Control PGDBM 201

CO 1: Explain the concept of Production Planning and Control and its Functions.

CO 2: Understand Material Requirement Planning and Aggregate Planning.

CO 3: Explain various Techniques of Production Planning and Control like Job Shop Planning, Just in Time Production, Quality Control, Line Balancing etc.

CO 4: Describe the Procedure and Documentation in Production Planning and Control.

CO 5: Application of Computer in Production Planning and Control.

Paper: Management and Cost Accounting PGDBM 202

CO 1: Students will be able to calculate cost of various products and their selling price at factory level.

CO 2: Practical aspects regarding management of stock, labour, preparation of budget and control of cost by using various techniques like marginal & standard costing are imparted with.

CO 3: Students will be well versed with various techniques of inter and intra firm financial analysis like ratio analysis, financial statement analysis, cash flow & fund flow analysis.

CO 4: The subject will make the students acquainted with relevance of management reporting system.

Paper: Business and Labour Law PGDBM 203

CO 1: Students will be able to understand provisions of Indian Contract Act, 1972 in detail regarding essentials of a valid contract, how to discharge a contract, remedies for breach of contract.

CO 2: Practically it would be easy for them to learn about concepts of Pledge, Hire Purchase, Indemnity and Guarantee and sale by Auction.

CO 3: They become aware about Factory Act, 1948 by studying the provisions relating to health, safety & welfare of workers.

CO 4: They are provided the knowledge of the formation of trade unions, rights and duties of its members and functioning of trade unions.

CO 5: They will understand about the employee state insurance schemes and various benefits available to the workers like health and medical benefits provided by the govt.

CO 6: Learners also come to know about the causes and reconciliation of industrial disputes between employer and employee, among employees and among employers. This is highly required for smooth functioning of the business.

Paper: Advertising and Sales Management PGDBM 204

CO 1: It will Explain basic concepts like Nature, Scope, Functions and Classification of Advertising.

CO 2: Develop understanding of DAGMAR Approach.

CO 3: Build Advertising Programme: Message, Theme, Copy, Appeals, Layout etc.

CO 4: Measure Advertising Effectiveness: Pre-Testing and Post-Testing Copy.

CO 5: Understand Nature and Scope of Sales Management.

CO 6: Recruiting and Selection of Sales Personnel.

CO 7: Supervision and Motivation of Sales Personnel.

Department of Computer Science

Name of Programme: BCA

Course Outcomes

Semester-I

Paper: I Introduction to Programming-C

CO1: This paper provides the basic insight of programming skills to the students who are beginning their career in various Computer Programming Languages.

CO2: C Programming acts as the base of programming languages which will thoroughly increase the interest of students in programming field.

CO3: All advanced computer programming languages are belonging to the base concept of C programming and learning the basic concept of this course, will help students in advance languages also.

CO4: This language is being accepted as universal programming language; therefore the concept understanding of this language will inculcate thorough knowledge of procedures of programming language in students.

CO5: This paper is specifically being used in a multitude of applications, including advanced scientific systems and operating systems

Paper: II Introduction to Computers and Information Technology

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO2: Students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of office automation and desktop publishing as well.

Paper: III Applied and Discrete Mathematics

CO1: This paper provides a deep insight about the mathematical foundational topics to students.

CO2: Complete knowledge of BooleanAlgebra is given through this course structure, so that students can prepare themselves for further understanding of topics related to other subjects of programme.

CO3: This helps students in many competitive exams also as the base for reasoning,quantitative techniques and graph theory as well.

Semester-II

Paper: I Introduction to Programming-C++

CO1: This paper provides the expanded knowledge of C programming language and introduces the concept of object oriented programming languages so that students can learn about the real time problem solving techniques.

CO 2: Specialized course work can be used for developing different applications, games, animations, web browser, database software, compilers etc., giving students a lot of opportunities in IT Industries as well.

CO3: Expansion of this paper is being used in system programming and embedded systems for the establishment of Computer Aided Designs and Computer Aided Manufacturing purposes also.

CO4: This Course improves the level of Logical and Analytical Thinking in Students so that they can give more emphasis on real world problem solving techniques and methods.

CO5: C++ inculcates all the required concepts, knowledgeable methodologies and structure oriented guidance in Students which motivates them to be a Good Programmer in future.

Paper: II Principles of Digital Electronics

CO1: This paper allows students to understand the internal circuitry of the processor and memory in detail explaining about process creation, performance of various calculations, number system, number conversions and K- Mapping techniques.

CO2: It enables students to get through the mathematical foundation going inside the system for the bits transfer inside the processor, converting sum of product forms into product of sum forms, generating the read-write cycles and memory writing timing diagrams.

CO3: Digital Electronics makes students learn about the internal mechanism of Arithmetic Logical Unit inside the processor performing various calculations and manipulations.

CO4: Learning Best Outcomes of this paper will motivate students to make their own hardware live projects.

CO5: Students can pursue their future in hardware engineering by having complete knowledge of electronics.

CO6: This programme will inculcates the complete knowledge of electricity and computer system handling in students.

Paper: III Numerical Methods & Statistical Techniques

CO1: This paper provides the learning insights of concept of statistical analysis of the data to the students so that they can effectively and efficiently store the data inside the systems where it will be having a low cost and timing access easily.

CO2: In the field of computing, this paper will help the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well.

CO3: This gives students complete knowledge to calculate various statistical calculations on data like calculating Mean, Median, Mode, Kurtosis, Moments and Regression.

CO4: This paper increases the critical and analytical strategies in students so that students can pursue their carrier in research and development field.

Semester-III

Paper: I Computer Architecture

CO1: This paper provides the knowledge about the way the hardware components operate and are connected together to form the computer system along with the deeper study of Computer Internal Circuitry Board as well.

CO2: Enhances the knowledge about the system components, circuit design, logical design, structure of instruction, computer arithmetic, processor control, assembly programming and methods of performance enhancement.

CO3: This paper is especially designed for the students to learn hardware details so that they can work in the Field of Hardware Engineering and be able to develop Hardware Live Projects also.

Paper: II Database Management System

CO1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Paper: III Computational Problem Solving & Statistical Techniques

CO1: This paper is specially designed for providing the thorough knowledge of programming to students.

CO2: Going from the basics to complete detail of the programming concept, this paper enables students to apply their own logics in computer system.

CO3: It is being widely used in various companies and MNCs, therefore the complete knowledge of this paper will help students to get through their training projects after placements.

CO4: Students can build up their own software projects by using the syntaxes and semantics of this programme.

CO5: The basic foundation of this particular subject will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer.

Semester-IV

Paper: I Data Structures & File Processing

CO1: This paper is one of the main and technical paper of BCA course after which students become able to select appropriate data structures as applied to specify problem definition.

CO2: Students learn about application of various data structure like stacks, queues, tree, graph, linked list etc. related to different operations.

CO3: This paper is highly necessary to learn and implement logics in computer science.

CO4: It also includes the various concepts related to data storage in computers.

CO5: Students learn to analyse and compare algorithms for efficiency.

Paper: II Information System

CO 1: This paper carries importance because information system management is a must for all industries/institutions by the use of information technology.

CO 2: This paper is best suitable for all the students who want to build their carrier in the system analyst, system designer and system manager as these are special jobs for new system development and design.

CO 3: Students can also get good opportunity in various business verticals like accounting information system, inventory management, human resource management system etc.

CO 4: This paper is very significant in various levels of business like TPS, MIS, DSS, and ESS.

CO 5: Students can get good jobs according to their interest and develop themselves in higher management positions.

CO 5: This paper is important for development of new techniques in business development.

Paper: III Internet Application

CO 1: This paper provides the understanding of various concepts related to internet where students will learn about the connection establishment, configuring the network, trouble shoot the network etc.

CO 2: Students learn about the various measures being used for securing the network along with the help of internet protocols and increase in the use various Security Firewalls

CO 3: Paper gives suitable information to students in order to get maximized advantages from the network by implementing an accurate type of Topology and Connecting computer system in proper order.

CO 4: Students can pursue their carrier in the field of network security and network coordination which is presently in high demand throughout the Industry.

Paper: IV System Software

CO 1: This paper provides complete knowledge to the students about the process generation inside the internal architecture of the systems and helps them to understand how the processing is being done inside the system.

CO 2: Detailed insights about the Loader, Linker, Assembler and Compiler are given to the students by understanding which they can determine what the actual working is being performed inside the system when we initiate a command.

CO 3: Study of various phases of the Compiler makes students more enthusiastic to learn about the internal process working of the system so that they can do specialization in the particular course for higher education also.

CO 4: Students get to learn about the concept of macros, multi-threading and multiple process orientation techniques through this course work

Semester-V

Paper: I Computer Networks

CO 1: This paper inculcates the complete knowledge of networking in students which is the most essential and advantageous in the present scenario of internet and networking.

CO 2: Complete understanding of the specified paper provides students with the information of various network topologies, network protocols, network essentials and network controlling.

CO 3: This Course will help students to get proper information about many network devices and their uses so that students can use them in real world also.

CO 4: Students will thoroughly study about the transmission media and to realize and compare different LAN, MAN and WAN topologies.

CO 5: Studying the detailed information about the internet protocols will increase the ability in students to work in the real networking development techniques.

Paper: II Web Technologies

CO 1: This paper is highly efficient and recommended one for the provision of knowledge to students about website development and software development which will highly increase their opportunities to work in industries.

CO 2: This course is the combination of many server side and client side programming languages like CSS, Java Script, Java Servlets, ASP.net and PHP for the successful establishment of Website or Software.

CO 3: Students will get through the internal knowledge of back-end and front-end processes using which they will be able to design their own websites or software.

CO 4: This paper will also provide the information about the data base connectivity along with the given front end website or software so that the students can learn about the data transfer procedures form front-end to back-end and vice-versa.

Paper: III Operating System

CO 1: This paper explains and describes about the important computer system resources and the role of operating system in their management policies to get a better understanding about the concept of various Process Management Techniques under different operating systems available.

CO 2: The paper gives detailed description about the process and functions of operating system in order to schedule manage and control the processes going inside the system.

CO 3: The study of operating system helps students to analyse the memory management and its allocation policies which is the prime factor of consideration in every operating system,

CO 4: This course helps students to identify use and evaluate the storage management policies with respect to different storage management technologies of operating systems like Windows, Linux and UNIX.

Paper: IV JAVA Programming Language

CO 1: One of the most highly used and effective programming language JAVA, is the popular one IT sector for website and Software Development and this course give students a basic core and advanced both types of technical information about JAVA Language.

CO 2: Students get to learn about the basic concepts of object oriented programming and basic as well as advance Java Programming constructs.

CO 3: This programme enables students to implement the constructs and structure of the Java Programming Language in the successful creation of Java Applets and Java Services.

CO 4: This programme is highly recommended for students in order to pursue career in software development in various MNCs in India and Abroad as well.

CO 5: The Specialization of this will increase the opportunities for students to get jobs in the field of programming, website and software development, software testing etc.

Semester-VI

Paper: I Computer Graphics

CO 1: This paper provides a detailed knowledge of Computer Screen and Audio Visual Aids to Students.

CO 2: Students will get to know about the details of Image Resolution, Pixels, Bitmap and Pixel Map which helps them to understand the process of Image Processing.

CO 3: Computer Graphics is a kind of Programme that enables students to understand the working of CRT, LCD and LED Displays so that they can design the screen graphics according to it.

CO 4: This helps students to get through the techniques of creating many Graphical Scenesand Scenes with Motion also which greatly helps them to create different live projects and work under various MNCs.

Paper: II Software Engineering

CO 1: Software engineering calls upon interdisciplinary skills like critical thinking, cost analysis &project management—skills that can been enhanced in a master's program in computer science, computer engineering, information's science or software engineering.

CO 2: This paper will help students to pursue their career in software engineering with a focus on new technologies and areas of application, such as cyber security, big data, or mobile application development etc.

CO 3: This paper will develop a comprehensive understanding of programming, software architecture, and software testing which is in high demand in various MNCs and in vast IT Sector.

Paper: IV Project

CO 1: The project will enable students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules make students learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and industries.

CO 3: The paper inculcates the important software developing skills in students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can make Projects as Websites and Software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme: B.Sc. (IT)

Course Outcomes

Semester-I

Paper I- Fundamentals of Computers

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Paper: II Introduction to Programming-C

CO 1: This paper provides the basic insight of programming skills to the students who are beginning their course work in various computer programming languages.

CO 2: C Programming acts as the base of programming languages which will thoroughly increase the interest of students in programming field.

CO 3: All advanced computer programming languages are belonging to the base concept of C programming and learning the basic concept of this paper, will help students in advance languages also.

CO 4: This Language is being accepted as Universal Programming Language, therefore the concept understanding of this language will inculcate thorough knowledge of procedures of Programming Language in Students.

CO 5: This paper is specifically being used in a multitude of applications, including advanced scientific systems and operating systems

Paper: III Applied & Discrete Mathematics

CO 1: This paper provides a deep insigpht about the mathematical foundational topics to students.

CO 2: Complete Knowledge of Boolean Algebra is given through this paper, so that students can prepare themselves for further understanding of topics related to other subjects of Programme.

CO 3: This paper helps students in many competitive exams also as the base for reasoning and quantitative techniques and graph theory as well.

Semester-II

Paper: I Principles of Digital Electronics

CO 1: This paper allows students to understand the internal circuitry of the processor and memory in detail explaining about Process Creation, Performance of Various Calculation, Number System,Number Conversions and K- Mapping Techniques.

CO 2: This paper enables students to get through the mathematical foundation going inside the system for the bits transfer inside the processor, converting sum of product forms into product of sum forms, generating the read-write cycles and memory writing timing diagrams.

CO 3: Digital Electronics makes students learn about the Internal Mechanism of Arithmetic Logical Unit inside the Processor performing various calculations and manipulations.

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CO 5: Students can pursue their future in Hardware Engineering by having complete knowledge of Electronics.

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CO 2: Specialized paper can be used for developing different applications, games, animations, web browser, database software, compilers etc., giving students a lot of opportunities in IT Industries as well.

CO 3: Expansion of this paperwork is being used in system programming and embedded systems for the establishment of Computer Aided Designs and Computer Aided Manufacturing purposes also.

CO 4: This paper improves the level of Logical and Analytical Thinking in Students so that they can give more emphasis on real world problem solving techniques and methods.

CO 5: C++ inculcates all the required concepts, knowledgeable methodologies and structure oriented guidance in Students which motivates them to be a Good Programmer in future.

Paper: III Numerical Methods & Statistical Techniques

CO 1: This paper provides the learning insights of Concept of Statistical Analysis of the Data to the students so that they can effectively and efficiently store the data inside the systems where it will be having a low cost and timing access easily.

CO 2: In the field of Computing, this paperwork will help the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well.

CO 3: This paper gives students complete knowledge to calculate various statistical calculations on Data like Calculating Mean, Median, Mode, Kurtosis, Moments and Regression.

CO 4: This paperwork increases the critical and analytical strategies in students so that students can pursue their carrier in Research and Development Field.

Semester-III

Paper: I Introduction to Python

CO 1: This paper is specially designed for providing the thorough knowledge of programming to students.

CO 2: Going from the basics to complete detail of the programming concept, this programme enables students to apply their own logics in computer system.

CO 3: This programme is being widely used in various companies and MNCs, therefore the complete knowledge of this programme will help students to get through their training projects after placements.

CO 4: Students can build up their own Software Projects by using the syntaxes and semantics of this programme.

CO 5: The basic foundation of this particular paper will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer.

Paper: II Data Structure

CO 1: This paper is one of the main and technical papers of BSc. IT course after which students become able to select appropriate data structures as applied to specify problem definition.

CO 2: Students learn about application of various data structure like stacks, queues, tree, graph, linked list etc. related to different operations.

CO 3: This paper is highly necessary to learn and implement logics in computer science.

CO 4: It also includes the various concepts related to data storage in computers.

CO 5: Students learn to analyse and compare algorithms for efficiency.

Paper: III System Analysis & Design

CO 1: This paper is specifically designed to give the knowledge about the analysingand designing procedures of a system so that students can go through inside details.

CO 2: Students can work as System Analyserand System Handlers in various companies and IT industry.

CO 3: This paper is very effectively providing students with the knowledge of various constructs and structures useful in analysing the system and designs a system as well.

Semester-IV

Paper: I Database Management System

CO 1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO 2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO 4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Paper: II Internet Applications

CO 1: This paper provides the understanding of various concepts related to Internet where students will learn about the Connection Establishment, configuring the network, trouble shoot the network etc.

CO 2: Students learn about the various measures being used for securing the network along with the help of Internet Protocols and increase in the use various Security Firewalls

CO 3: Paper gives suitable information to students in order to get maximized advantages from the network by implementing an accurate type of Topology and Connecting Computer System in proper Order.

CO 4: Students can pursue their carrier in the field of Network Security and Network Coordination which is presently in high demand throughout the Industry.

Paper: III JAVA & Web Designing

CO 1: One of the most highly used and effective programming language JAVA, is the popular one IT sector for website and software development and this give students a basic core and advanced both types of technical information about JAVA language.

CO 2: Students get to learn about the basic concepts of object oriented programming and basic as well as advance Java Programming constructs.

CO 3: This paper enables students to implement the constructs and structure of the Java Programming language in the successful creation of Java Applets and Java Servlets.

CO 4: This paper is highly recommended for students in order to pursue career in software development in various MNCs in India and Abroad as well.

CO 5: The specialization of this paper is highly increasing the opportunities for students to get jobs in the field of programming, website and software development, software testing etc.

Paper: IV Web technology

CO 1: This paper is highly efficient and recommended one for the provision of knowledge to students about website development and software development which will highly increase their opportunities to work in industries.

CO 2: This paper is the combination of many sever side and client side programming languages like CSS, Java Script, Java Services, ASP.net and PHP for the successful establishment of website or software

CO 3: Students will get through the internal knowledge of back-end and front-end processes using which they will be able to design their own websites or software.

CO 4: This will provide the information about the data base connectivity along with the given front end website or software so that the students can learn about the data transfer procedures form front-end to back-end and vice-versa.

Semester-V

Paper: I Computer Networks

CO 1: This paper inculcates the complete knowledge of Networking in students which is the most essential and advantageous in the present scenario of internet and networking.

CO 2: Complete Understanding of the specified paper provides students with the information of various network topologies, network protocols, network essentials and network controlling.

CO 3: This paper will help students to get proper information about many network devices and their uses so that students can use them in real world also.

CO 4: Students will thoroughly study about the transmission media and to realize and compare different LAN, MAN and WAN Topologies.

CO 5: Studying the detailed information about the internet protocols will increase the ability in students to work in the real networking development techniques.

Paper: II Operating System

CO 1: This paper explains and describes about the important computer system resources and the role of operating system in their management policies to get a better understanding about the concept of various process management techniques under different operating systems available.

CO 2: The paper gives detailed description about the process and functions of operating system in order to schedule manage and control the processes going inside the system.

CO 3: The study of operating system helps students to analyse the memory management and its allocation policies which is the prime factor of consideration in every operating system.

CO 4: This paper helps students to identify use and evaluate the storage management policies with respect to different storage management technologies of operating systems like Windows, Linux and UNIX.

Paper: III E-Business

CO 1: This paper is one of the strong theoretical concepts regarding the online business.

CO 2: This paper enables the students to clear there concept regarding traditional and online business concepts.

CO 3: This paper helps students to understand the basics of the E-Business and techniques to handle business digitally in order to have productive outcome from the business.

CO 4: This paper provides deep insights to students about the online payment and online banking systems.

Semester-VI

Paper: I Computer Graphics

CO 1: This paper provides a detailed knowledge of Computer Screen and Audio Visual Aids to Students.

CO 2: Students will get to know about the details of Image Resolution, Pixels, Bitmap and Pixel Map which helps them to understand the process of Image Processing.

CO 3: Computer Graphics is a kind of paper that enables students to understand the working of CRT, LCD and LED Displays so that they can design the screen graphics according to it.

CO 4: This paper helps students to get through the techniques of creating many Graphical Scenes and Scenes with Motion also which greatly helps them to create different live projects and work under various MNCs.

Paper: III Project

CO 1: The Project will make Students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules make students learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and Industries.

CO 3: This paper inculcates the important software developing skills in students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can make projects as websites and software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme: M.Sc. (Computer Science)

Course Outcomes

Semester-I

Paper: MCS-101 Advanced Data Structure

CO 1: This paper provides the students with the deep knowledge of algorithm design and analysis and it also provide the students lot of opportunities in the IT industries. .

CO 2: This paper also provides means for management of large dataset such as databases or internet indexing services by allowing the data use and processing on a software system.

CO 3: Many reputed companies like Amazon, Microsoft hire students on the basis of their practical knowledge in the data structures.

Paper: MCS-102 Advanced Computer Architecture

CO 1: The study of computer architecture and organization focuses on the interface between hardware and software, and emphasizes the structure and behaviour of the system that provides hardware details of the system to the students.

CO 2: This paper inculcates the hardware knowledge of processor in students and it is important that computer students need a basic understanding of computer system itself in order to rectify the problems.

CO 3: There are a fundamental relationship between hardware and the many aspects of programming and software components in computer systems. In order to write good software, it is very important to understand the computer system as a wholeand this paper provides complete knowledge about the inner working of computer system.

Paper: MCS-103 Network Design & Performance Analysis

CO 1: This paper provides students with the detail knowledge of networking concepts being highly used in modern time's technologies. And it also provides shared access to customer and product databases in a very less time

CO 2: Network protocol analysis is a network sniffer to capture data for further analysis and understanding of the technical means necessary packets. Students can pursue their career in the field of professional network developing which is highly in demand in India and Abroad as well.

CO 3: Best understanding of networking concepts make students more confident about the business startups in field of professional networking development.

CO 4: This paper will enable students to get best placements as Networking Professionals and Network Developers in various companies.

Paper: MCS-104 Discrete Structures

CO 1: Discrete Structures is of direct importance to the fields of Computer Science and Information Technology. This allows students to study areas such as set theory, logic, relations, graph theory and analysis of algorithms.

CO 2: Modeling with discrete mathematics is an extremely important problem solving skill in which the students perform combinatorial analysis to solve counting problems and analyse algorithms.

CO 3: This paper is a collection of techniques and algorithms relevant to all sorts of things that students often need to do programming.

Paper: MCS-105 Soft Computing

CO 1: This paper helps to understand the basic knowledge of probability, fuzzy logic and neural networks that allows students to handle problems with imprecise and incomplete data

CO 2: The paper inculcates the knowledge about the fuzzy logic toolbox and cover a wider range of operating conditions, more readily customizable in natural language terms.

CO 4: This paper provides understanding of various membership functions of fuzzy logic and use of fuzzy and neural for various real world problems

CO 5: This paper also provides understanding of the various types of neural networks and their algorithms.

Semester-II

Paper: MCS-201 Theory of Computation

CO 1: Students understand the mathematical laws governing efficient computation and apply this understanding to address problems in other parts of computer science

CO 2: This paper teaches students about the elementary ways in which a computer can be made to think. It provides good problem solving skills and behind logic of any compiler.

CO 3: In theory of computation students will learn abstract machines, or model of computation, which will be defined mathematically.

Paper: MCS-203 Image Processing

CO 1: This paper will provide students useful and essential skills and experience to make career as creative professionals such as graphic designers, gallery managers, art curators, commissioning editors and art directors etc.

CO 2: Having knowledge about this paper, students will get to know about the detailed functions of image processing software so that students can learn about restoration, manipulation and development of various imaging techniques.

CO 3: This paper provides knowledge to develop the layout and production design of newspapers, magazines, corporate reports, journals and other publications.

CO 4: The advanced features of image processing are being used to develop motion picture and motivate students to work in television industry.

Paper: MCS-203 Design & Analysis of Algorithm

CO 1: A Software programmer is responsible for designing, installing, testing and maintaining of software systems. A Software Programmer has to review current systems, present ideas for system improvements, work with analysts, product specifications and write the program codes. This paper helps to inculcate all the major responsibilities of software programmer in students so that they can compete in market well.

CO 2: Students learn to design and develop many types of software like operating systems, network distribution and software for compilers through this paper.

CO 3: Through this paper students will learn to work in industries as software publishers, gaming companies and government organizations. Students can also develop their own software projects independently.

CO 4: They can pursue the carrier of a Technical writers are the technical communicators who prepare instruction manuals, journal articles and other documents to communicate complex and technical information more easily.

Paper: MCS-204 Cloud Computing

CO 1: It provides a deep knowledge to students about virtualization.Cloud environment gives our business the ability to communicate and share more easily outside of the traditional methods. If students are working on a project across different locations, they could use cloud computing to give others access to the same files.

CO 2: Through this subject students will learn about the different models used in cloud for service provided.

CO 3: With the growing number of web-enabled devices used in today's business environment (e.g. Smart phones, tablets) access to our data is even easier. And the paper enables the students to understand and learn the use of internet and cloud in various organizations.

CO 4: Moving to cloud computing may reduce the cost of managing and maintaining your IT systems. Students came to know about the energy efficiency in cloud

Paper: MCS-205 Distributed Database System

CO 1: This paper is highly specialized in which elaborate the future design and implementation in the field of networking.

CO 2: This paper provides advance development in the field of networking, storing and fetching of information.

CO 3: This helps in understanding and specialized networking techniques which ensure the processing of large information systems without any failures.

CO 4: Students learn about remote network and server processing in which data is never placed in server but data is available to user as and when required.

CO 5: This paper is having huge scope in large networks, data warehousing and data mining. Students' gets very good option for becoming good network administrator.

Semester-III

Paper: MCS-301 Advanced Software Engineering

CO 1: The Advanced Software Engineering is a newly redesigned course that enables students to extend their knowledge of, and gain valuable experience in, software engineering as it applies to a number of new and important areas of IT and computing.

CO 2: Software engineers may choose to become experts in a single programming language or type of development.

CO 3: Having knowledge of this subject, students can work as web developer, software engineer, Mobile development, Technical stack (e.g., Python, Ruby) etc.

Paper: MCS-302 System Software

CO 1: This paper provides complete knowledge to the students about the process generation inside the internal architecture of the systems and helps them to understand how the processing is being done inside the system.

CO 2: Detailed insights about the Loader, Linker, Assembler and Compiler are given to the students through this paper by understanding which they can determine what the actual working is being performed inside the system when we initiate a command.

CO 3: Study of various phases of the Compiler makes students more enthusiastic to learn about the internal process working of the system so that they can do specialization in the particular course for higher education also.

CO 4: Students get to learn about the concept of Macros, Multi- Threading and Multiple Process Orientation techniques through this course work

Paper: MCS-303 Data Mining and Warehousing

CO 1: This paper provides knowledge about how data is integrated across enterprises and industries

CO 2: This paper helps students in solving what-if analysis and various mining techniques to handle the business scenarios.

CO 3: This paper work inculcates the capability of decision making on current and historical data and its implementation

CO 4: This paper makes it understand to the students how to manage and control businesses and perform mining on the required data.

Paper: MCS-304 Concept of Core and Advanced JAVA

CO 1: This paper is one of the specialized Programme in M.Sc., which provides the detail knowledge of Java Programming Language.

CO 2: Students get to learn about the basic concepts of object oriented programming and basic as well as advance Java Programming constructs.

CO 3: This paper enables students to implement applications in Java & Java Applets.

CO 4: This paper is highly recommended for students in order to pursue career in software development.

CO 5: Students can get many job opportunities and use this language as a tool in research.

Paper: MCS-305 Network Programming

CO 1: Network programming write software programs or scripts that aid in network analysis, such as diagnostics or monitoring utilities.

CO 2: This paper helps students to integrate new software technologies into an existing network environment or to build a new environment.

CO 3: Network technicians often work the help-desk services to repair or upgrade computers. Technicians need to be familiar with the different operating systems such as Microsoft, Novell, and UNIX, as well as the basics of computer networking.

Semester-IV

Paper: MCS-401 Advanced Web Technologies

CO 1: This subject provides combination of many languages which are useful for students to develop web sites. ASP .NET significantly reduces the amount of code required for building large and complex applications which can increase overall development speed and reduce development costs.

CO 2: ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages and by implementing CSS students came to know about formatting.

CO 3: This paper enables students to get through the inner functioning details of Asp.Net framework. Asp.Net framework is language independent, means students can choose any programming language which best suited to you application.

CO 4: By database connectivity students came to know how the internal functionality of a web site is connected with backend.

Paper: MCS-402 Microprocessor and Its Application

CO 1: A microprocessor is normally capable of many functions, such as word processing, calculation, and communication via Internet or telephone and this helps students to understand the detailed view of microprocessor about their functionality and their properties.

CO 2: Students can easily extend their knowledge of writing assembly code, for the x86 assembly language and they can understand how a machine interprets instructions at low level.

CO 3: This paper provides knowledge how a processor at the lower level receives input from the keyboards and the mice and they can learn how and why memory segmentation in a process came into existence.

CO 5: This also allows students to understand about the real life applications of the microprocessor.

Paper: MCS-403 Object Oriented Modeling, Analysis and Design

CO 1: OOAD is often used in the area of object oriented programming (OOP). OOP aims to produce software that is efficiently written with few instances of duplicated code.

CO 2: Object-oriented analysis and design (OOAD) is a technological approach to analyse, design a software system or business by using Object Oriented (OO) concept.

CO 3: An efficient analysis is only possible when we think in a way where objects can be identified. After identifying the objects the relationships between them are identified and finally the design is produced. It also provides learning of principles of relational, hierarchical and object-oriented databases

CO 4: OOAD allows complete understanding about the current trends in data management, such as data mining and business analytics.

Paper: MCS-405P Project

CO 1: The Project will make Students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules make students learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and Industries.

CO 3: This paper inculcates the important software developing skills in students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can make projects as websites and software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme- M.Sc. (Information Technology)

Semester-I

Paper: MIT-101 Analysis and Design of Embedded System

CO 1: Embedded System is designed to function with minimal or no human interference. This course explains embedded system concepts and architecture of embedded systems.

CO 2: This paper also describes the architecture of PIC, AVR and DSP microcontrollers.

CO 3: Students can learn different types of operating systems and their services used required for designing embedded systems.

CO 4: This paper provides the knowledge about the design issues and elements for an embedded systems and tools for development of embedded systems.

Paper: MIT-102 Distributed Computing

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborates the future design and implementation in the field of networking.

CO 2: This paper provides advance development in the field of networking, storing and fetching of information.

CO 3: This helps in understanding and specialized networking techniques which ensure the processing of large information systems without any failures.

CO 4: Students learn about remote network and server processing in which data is never placed in server but data is available to user as and when required.

CO 5: This programme is having huge scope in large networks, data warehousing and data mining. Student's gets very good option for becoming good network administrator.

Paper: MIT-103 Advanced Computer Organization and Architecture

CO 1: The study of computer architecture and organization focuses on the interface between hardware and software, and emphasizes the structure and behavior of the system that provides hardware details of the system to the students.

CO 2: This paper inculcates the hardware knowledge of processor in students and it is important that computer students need a basic understanding of computer system itself in order to rectify the problems.

CO 3: There are a fundamental relationship between hardware and the many aspects of programming and software components in computer systems.

Paper: MIT-104 Network Operating System

CO 1: This paper is one of the highly specialized programme in M.Sc., which provides the detail knowledge of Network Operating System specifically Microsoft Windows Server.

CO 2: Students get to learn about the various concepts related to Network Operating System like User/Group Management, Disk Quotas, Server Setup (WEB Server, DHCP, DNS etc.) in Windows and Linux.

CO 3: This paper enables students to create and manage highly efficient networks using Microsoft Server product.

CO 4: This paper is highly recommended for students as it gives them an insight into comparing Windows Server products and Linux Server Solution in order to implement network solutions in organizations.

CO 5: Students can get many job opportunities related to Network Administrator in various industries/organizations.

Paper: MIT-105 Computational Problem Solving Using Python

CO 1: This paper is specially designed for providing the thorough knowledge of programming to students.

CO 2: Going from the basics to complete detail of the programming concept, this programme enables students to apply their own logics in computer system.

CO 3: This paper is being widely used in various companies and MNCs, therefore the complete knowledge of this programme will help students to get through their training projects after placements.

CO 4: Students can build up their own software projects by using the syntaxes and semantics of this programme.

CO 5: The basic foundation of this particular programme will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer

Semester-II

Paper: MIT-201 Mobile Computing

CO 1: This paper provides a deep knowledge about the different wireless communication System.

CO 2: Through this subject student came to know about the mobile radio Propagations and how a channel is allocated to each subscriber.

CO 3: The GSM system for mobile Computing is also taught to students.

CO 4: A complete description of SMS (Short Message Service) and its architecture is given to students through this subject.

Paper: MIT-202 Distributed Databases

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborate the future design and implementation in the field of networking.

CO 2: This paper provides advance development in the field of networking, storing and fetching of information.

CO 3: This helps in understanding and specialized networking techniques which ensure the processing of large information systems without any failures.

CO 4: Students learn about remote network and server processing in which data is never placed in server but data is available to user as and when required.

CO 5: This paper is having huge scope in large networks, data warehousing and data mining. Students' gets very good option for becoming good network administrator.

Paper: MIT-203 Image Processing

CO 1: This paper will provide students useful and essential skills and experience to make career in creative professionals such as graphic designers, gallery managers, art curators, commissioning editors and art directors etc.

CO 2: Having knowledge about this paper, students will get to know about the detailed functions of image processing software so that students can learn about restoration, manipulation and development of various Imaging techniques.

CO 3: This paper provides knowledge to develop the layout and production design of newspapers, magazines, corporate reports, journals and other publications.

CO 4: The advanced features of image processing are being used to develop motion picture and motivate students to work in television industry.

Paper: MIT-204 Fuzzy Systems

CO 1: This paper provides the detail knowledge of Automatic Sensor Controlled Systems to students.

CO 2: Students get to learn about the fuzzy systems and fuzzy controllers which are mostly being used in modern automatic devices.

CO 3: This paper is highly recommended for students in order to pursue research works also.

CO 4: This paper enables students to apply their logics and knowledge in systems which are really near to human thinking and behavior.

CO 5: This paper will make students understand that how human behavior is being rationalized by computer systems in robotics and live hardware systems based on sensor technologies.

CO6: Students can get many job opportunities and new visions for research after getting through this paper.

Paper: MIT-205 Network Design and Performance Analysis

CO 1: Developing networking skills almost immediately places and to make a career in virtually any sector. All the industrial sectors like the financial services, transport, manufacturing, education, technology, Government, healthcare, hospitality, and retail and so on experience shortage of skilled networking specialists.

CO 2: Students can make a mark immediately in the field you desire. The Government sectors have considerable scope for networking technology. The Defence and Intelligence services need networking specialists regularly.

CO 3: The technology is such that you can choose to start your own business as well. Networking skills can help you connect to other businesses thereby helping you to market your business and services efficiently.

Semester-III

Paper: MIT-301Network Protocols

CO 1: This paper provides knowledge about how information is transmitted accurately and unambiguously across the systems.

CO 2: It inculcates students about the overview of creating IP addresses and their configurations

CO 3: This paper provides knowledge about different networking topologies, media, systems and their management

CO 4: Students can use different protocols to ensure integrity and security of communication of underlying network.

CO 5: This paper also helps in setting up procedures for sending and receiving messages, acknowledgement of receipt, congestion avoidance, error correction etc.

Paper: MIT-302 Advanced Web Technologies

CO 1: ASP.net supports multiple programming languages like C#, visual basic dot net, J#, C++ and service-oriented architectures.

CO 2: Student having proficiency in on programming languages can build one module of large application and can be used simultaneously with modules develop by other students having good hand in other programming language.

CO 3: ASP.net provide is reliable and flexibility. Student can develop applications for different devices like laptop, smart-phones, pocket PCs and so on using single language.

CO 4: ASP.NET drastically reduces the amount of code required to build large applications.

CO 5: Students can easily develop software using Wizards in Dot net framework.

CO6: Students can get job easily related to software development

Paper: MIT-303 Linux Administration

CO 1: Learning Linux Provides Good Job Opportunities to the students in IT sector.

CO 2: Students learns To Write Efficient, Effective Scripts with Documentation.

CO 3: As It Is Available Free of Cost and Can Easily Run on Older and Cheaper Computers It provides Substantial Financial Savings.

CO 4: It Provides High Security. Using Linux means avoiding viruses and malware.

CO 5: Improves Problem Solving Skills of the students.

Paper: MIT-304 System Simulation

CO 1: This paper is really very efficient one in M.Sc. and provide students with great insight of newly systems and their simulations.

CO 2: This paper increses the interest of students in the creation of newly computerized systems by first making their simulations.

CO 3: By complete understanding of this paper students will be able to work with various MNCs, firms and organization helping in the manufacturing of new systems.

Paper: MIT-305 Microprocessor and Its Application

CO 1: A microprocessor is normally capable of many functions, such as word processing, calculation, and communication via Internet or telephone and this helps students to understand the detailed view of microprocessor about their functionality and their properties.

CO 2: Students can easily extend their knowledge of writing assembly code, for the x86 assembly language and they can understand how a machine interprets instructions at low level.

CO 3: This paper provides knowledge how a processor at the lower level receive input from the keyboards and the mice. Students can learn how and why memory segmentation in a process came into existence.

CO 5: This also allows students to understand about the real life applications of the microprocessor.

Semester-IV

Paper: MIT-401 Advanced Java Technology

CO 1: This paper is one of the specialized programme in M.Sc., which provides the detail knowledge of Java Programming Language.

CO 2: Students get to learn about the concepts of object oriented programming and Java Programming constructs.

CO 3: This paper enables students to implement commercial applications in Java & Java Applets.

CO 4: This paper is highly recommended for students in order to pursue career in software development.

CO 5: Students can get many job opportunities and it can also act as a tool in research in some specialized fields.

Paper: MIT-402 Network Security

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborate the various components involved in network security.

CO 2: This paper enables students to learn basic and advance concepts of most important component i.e. personal level firewall and gateway level firewall.

CO 3: Students are able to understand security concepts, security threats, security services and mechanisms to counter them.

CO 4: This paper discusses advance methods in designing networks from security point of view.

CO 5: This helps in understanding and choosing specialized networking security device UTM (Unified Threat Management) from a number of available devices in the market.

CO6: This paper is having large scope in industry and research.

Paper: MIT-403 Artificial Neural Network

CO 1: This paper is highly specialized in M.Sc. (IT) which elaborate the future design and implementation in the field of networking.

CO 2: It covers the present day requirement of Pattern recognition, Character recognition.

CO 3: It closely resembles the human brain networking including learning, logistics, recognitions and retaining information.

CO 4: Now a days this programme is having great significance in all fields where specialization like human is required.

CO 5: Students can get many research and job opportunity after pursuing this specialized programme.

Paper: MIT-405P Project

CO 1: The Project will make Students able to identify the requirements for the real world problems and correlating them which will make them able to develop software solutions for them.

CO 2: Project Modules make students learn logically and analytically so that they can pursue their carrier in the field of Software Development in different MNCs and Industries.

CO 3: This paper inculcates the importantin students to make them a good Software Developer in order to make projects according to the need of customers and companies.

CO 4: This paper motivates students to work in teams and manage the conduct of the research study in near future.

CO 5: Students can make projects as websites and software in various different languages like JAVA, ASP.net, PHP and Android also.

Name of Programme: Post Graduate Diploma in Computer Applications

Course Outcomes

Semester-I

Paper: I PC Computing-I (MS-Office)

CO 1: This paper is the base subject for giving the basic fundamental concept of application software to the students.

CO 2: The motive of this subject is to give knowledge of basics of computer and MS-Offices to students so that students can pursue their carrier in the field of office automation and desktop publishing.

CO 3: This paper establish knowledge of creating effective documents, presentation slides and Excel Workbooks in students so that students can use their calibre in the field of banks, corporate sectors etc.

Paper: II PC Computing-II (Professional DTP)

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint.

Paper: III Fundamentals of Computer and OS

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to bridge the fundamental concept ofcomputers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Paper: IV Database Management System

CO 1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO 2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO 4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Semester-II

Paper: I Network Concepts and Management

CO 1: This paper inculcates the complete knowledge of Networking in students which is the most essential and advantageous in the present scenario of Internet and Networking.

CO 2: Complete Understanding of the specified paper provides students with the information of Various Network Topologies, Network Protocols, Network Essentials and Network Controlling.

CO 3: This paper will help students to get proper information about many Network Devices and their Uses so that students can use them in Real World also.

CO 4: Students will thoroughly study about the transmission media and to realize and compare different LAN, MAN amend WAN Topologies.

CO 5: Studying the detailed information about the Internet Protocols will increase the ability in students to work in the real networking development techniques.

Paper: II Programming in C

CO 1: This paper provides the basic insight of programming skills to the students who are beginning their course work in various Computer Programming Languages.

CO 2: C Programming acts as the base of Programming Languages which will thoroughly increase the interest of students in Programming Field.

CO 3: All Advanced Computer Programming Languages are belonging to the base concept of C Programming and Learning the basic concept of this course, will help students in Advance Languages also.

CO 4: This Language is being accepted as Universal Programming Language, therefore the concept understanding of this language will inculcate thorough knowledge of procedures of Programming Language in Students.

CO 5: This paper is specifically being used in a multitude of applications, including advanced scientific systems and operating systems

Paper: III Introduction to Scripting Language, Web Designing & Uses of Internet

CO 1: This paper work is highly efficient and recommended one for the provision of knowledge to students about Website Development and Software Development which will highly increase their opportunities to work in industries.

CO 2: This paper is the combination of many Sever Side and Client Side Programming Languages like CSS, Java Script, Java Servlets, ASP.net and PHP for the successful establishment of Website or Software.

CO 3: Students will get through the internal knowledge of Back- End and Front- End Processes using which they will be able to design their own Websites or Software.

CO 4: This paper will also provide the information about the Data base Connectivity along with the given Front End website or software so that the students can learn about the Data Transfer Procedures forms Front-End to Back-End and Vice-Versa.

Paper: IV Multimedia Systems

CO 1: This paper is used to become graphic designers and by having knowledge of this subject, they have the desired skills in Drawing, Lay outing, Typography, Lettering, Diagramming, and Photography.

CO 2: This subject gives us knowledge to develop the layout and production design of newspapers, magazines, corporate reports, journals and other publications.

CO 3: Students can also create marketing brochures for services and products, promotional displays packaging, design distinctive logos for businesses and products.

Name of Programme: Diploma in Computer Applications

Course Outcomes

Semester-I

Paper: I Information Technology and Operating System

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: The study of Operating System helps students to analyse the memory management and its allocation policies which is the prime factor of consideration in every Operating System,

CO 4: This paper helps students to identify use and evaluate the storage management policies with respect to different storage management technologies of Operating Systems like Windows, Linux and UNIX.

Paper: II PC Computing-I

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: Students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Semester-II

Paper: I Database Management System

CO 1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO 2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO 4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Paper: II PC Computing-II

CO 1: This paper is specifically providing complete knowledge about MS-Access to students and giving them thorough knowledge about the Database Establishment and Connection.

CO 2: MS-Access is being used in various big organizations, industries and MNCs for making the handling of data more simpler and much efficient and better understanding of this paper will help students to control this type of work in various Offices as well.

CO 3: Students get to learn about the process of creating Tables and making the concept of Database handling more presentable and understanding for the Software Developers as well.

Name of Programme: B.A. /B.Sc. (Computer Science)/B.Sc. (Economics)

Course Outcomes

Semester-I

Paper: Computer Fundamental & PC Software

CO 1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO 2: After completing this paper, students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO 3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO 4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well.

Semester-II

Paper: Programming Using C

CO 1: This paper provides the basic insight of programming skills to the students who are beginning their course work in various Computer Programming Languages.

CO 2: C Programming acts as the base of Programming Languages which will thoroughly increase the interest of students in Programming Field.

CO 3: All Advanced Computer Programming Languages are belonging to the base concept of C Programming and Learning the basic concept of this course, will help students in Advance Languages also.

CO 4: This Language is being accepted as Universal Programming Language; therefore the concept understanding of this language will inculcate thorough knowledge of procedures of Programming Language in Students.

Semester-III

Paper: Computer Oriented Numerical and Statistical Methods

CO 1: This paper provide the learning insights of Concept of Statistical Analysis of the Data to the students so that they can effectively and efficiently store the data inside the systems where it will be having a low cost and timing access easily.

CO 2: In the field of Computing, this course work will help the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well.

CO 3: This paper give students complete knowledge to calculate various statistical calculation on Data like Calculating Mean, Median, Mode, Kurtosis, Moments and Regression.

CO 4: This paper work increases the critical and analytical strategies in students so that students can pursue their carrier in Research and Development Field.

Semester-IV

Paper: Data Structures & Programming Language Using C++

CO 1: Students become able to select appropriate data structures as applied to specify problem definition.

CO 2: Students learn about application of various data structure like stacks, queues, tree, graph, linked list etc. related to different operations.

CO 3: This paper is highly necessary to learn and implement logics in computer science.

CO 4: It also includes the various concepts related to data storage in computers.

CO 5: Students learn to analyze and compare algorithms for efficiency.

Semester-V

Paper: Data Base Management System & Oracle

CO 1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO 2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO 3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO 4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Semester-VI

Paper: Information Technology

CO 1: This paper provides the deep insight to students about Information Technology and Networking so that students can understand the basic concepts of Internet and Computer Networks.

CO 2: This paper structure provides with the complete knowledge of Protocols, Topologies and Latest Technologies with the advancements in the field of Networking.

CO 3: This paper provides the knowledge of cables, connections, connectors and all the required technologies for Networking like IEEE, TCP/IP etc.

Name of Programme: B.A. (Bachelor of Arts)

Course Outcomes

Computer Application (Vocational)

Semester-I

Paper: Computer Fundamental & Pc Software

CO1: This paper provides fundamental information about computer and its working. A number of devices that can be attached with a machine now a day are also discussed.

CO2: After completing this paper, students become able to bridge the fundamental concept of computers with their present level of knowledge about computers.

CO3: This paper includes Microsoft Office programs which enable the students to create professional and academic documents.

CO4: Students also learn about various accounting related operations in MS Excel and presentation skills using MS PowerPoint which makes them able to work in field of Office Automation and Desktop Publishing as well

Semester-II

Paper: Programming Using C

CO1: This paper provides the basic insight of programming skills to the students who are beginning their course work in various Computer Programming Languages.

CO2: C Programming acts as the base of Programming Languages which will thoroughly increase the interest of students in Programming Field.

CO3: All Advanced Computer Programming Languages are belonging to the base concept of C Programming and Learning the basic concept of this course, will help students in Advance Languages also.

CO4: This Language is being accepted as Universal Programming Language, therefore the concept understanding of this language will inculcate thorough knowledge of procedures of Programming Language in Students.

CO5: This Paper Work is specifically being used in a multitude of applications, including advanced scientific systems and operating systems

Semester-III

Paper: Operating System

CO1: This Paper Work explains and describes about the important computer system resources and the role of operating system in their management policies to get a better understanding about the concept of various Process Management Techniques under different Operating Systems available.

CO2: The paper gives detailed description about the process and functions of Operating System in order to schedule, manage and control the processes going inside the system.

CO3: The study of Operating System helps students to analyze the memory management and its allocation policies which is the prime factor of consideration in every Operating System,

CO4: This paper helps students to identify use and evaluate the storage management policies with respect to different storage management technologies of Operating Systems like Windows, Linux and UNIX.

Semester-IV

Paper: Relational Data Base Management Systems & Oracle

CO1: This paper is very significant for the graduate students as it delivers detail understanding of database systems and its design.

CO2: It is having big role in all types of industry/institutions because all kind of necessary data is to be stored in database.

CO3: This paper also delivers the design and implementation of databases and generates opportunity for students to become data managers, Data base administrators and get jobs in any kind of business house.

CO4: It provides opportunity for future development and research in the field of database techniques like data ware housing and data mining as these are the basic needs of all types of business now and in future.

Semester-V

Paper: Internet and Web Designing

CO1: This paper provides the understanding of various concepts related to Internet where students will learn about the Connection Establishment, configuring the network, trouble shoot the network etc.

CO2: Students learn about the various measures being used for securing the network along with the help of Internet Protocols and increase in the use various Security Firewalls

CO3: Paper gives suitable information to students in order to get maximized advantages from the network by implementing an accurate type of Topology and Connecting Computer System in proper Order.

CO4: Students can pursue their carrier in the field of Network Security and Network Coordination which is presently in high demand throughout the Industry.

Semester-VI

Paper: Business Data Processing

CO 1: This paper is specially designed for the final year students in order to provide them with the information of basic need of Computer in different companies and organizations so that students can work accordingly.

CO 2: Business Data Processing enables the students to understand the Latest terms and technologies being used in companies so that students can work under the Live Software of Payroll Systems, Enterprise Software, and Data Warehousing Software etc.

CO 3: This paper gives a better understanding to students about the working of Developer 2000 Software which is being used in Companies and Organizations for the handling of Employee

Data.

Department of Physics
Name of Programme: B.Sc. (Non-Medical)/ (Computer Science)

Course Outcomes
Semester-I
Paper: Mechanics

CO 1: Students will learn about different coordinate systems: Cartesian and spherical polar Co-ordinate systems and their practical applications to find various physical quantities.
CO 2: Students will know how to reduce two body problem into one body problem.
CO 3: Students will be able to understand motion of a body under central forces
CO 4: Students will become familiar with the concept of inertial and non-inertial frames.
CO 5: Students will be able to appreciate the effect of non-inertial frames in national phenomenon e.g.variation of acceleration due to gravity with latitude coriolis force and its applications.
CO 6: Students will understand its elastic collisions in lab and C.M systems and Rutherford scattering.
CO 7: Students will appreciate the concept of precession and its applications as elementary gyroscope.

Paper: Electricity and Magnetism

CO 1: Students will learn about the basic ideas of vector calculus and their physical significance.
CO 2: Students will understand the concept of Electric field and potential difference due to different types of distribution of charges.
CO 3: Students will know about the magnetic properties of the material and their behaviour in the magnetic field.

Semester-II
Paper: Relativity and Electromagnetism

CO 1: Students will be able to understand the special theory of relativity.
CO 2: Further, they will have an idea about the concept of Minkowski space and four vector formulism.
CO 3: They will learn about Hall effect and its applications.
CO 4: Students will understand about coupling of electrical circuits and their basic concepts.
CO 5: Students will know about the fundamentals of E.M Waves and response of different media to E.M Waves.

Paper: Vibrations and Waves

CO 1: Students will learn about the simple Harmonic Motion, free, damped and forced oscillators.
CO 2: Students will understand the concept of Coupled oscillators.
CO 3: They will learn about the concept of impedance matching for propagation of wave through different media.

Semester-III
Paper: Statistical Physics

CO 1: Students will gain knowledge about the basic laws of statistical physics and its scope.
CO 2: Concept of microstate, macrostate and Phase space will be introduced to the students.
CO 3: They will learn about the basic approaches of Maxwell Boltzmann, Bose Einstein and Fermi Dirac statistics.
CO 4: Students will learn about the concept of entropy and its application to explain various natural phenomena.

CO 5: Maxwell Thermodynamics relations and their applications in different processes will be introduced to the students.

Paper: Optics

CO 1: Students will learn about interference of light by division of amplitude and wave front.

CO 2: Students will study the applications of interference of light in non-reflecting thin films and optical devices.

CO 3: Concept of polarization and methods to polarize light will be introduced to them.

CO 4: They will learn about construction and application of Nicol prism, Quarter and Half wave plate.

Semester-IV

Paper:Quantum Mechanics

CO 1: Students will learn about the formalism of Wave mechanics, Normalization and Probability interpretation of wave function.

CO 2: They will study about the concept of wave particle duality.

CO 3: The concept of Uncertainty Principle and its applications will be introduced to the students.

CO 4: Students will be introduced to operator formalism and fundamental postulates of wave mechanics.

CO 5: Students will study about Schrodinger equation for free as well for particle subjected to forces. Moreover, they will learn to apply Schrodinger equation to various problems of Physics.

CO 6: Students will gain knowledge about X rays, different methods of production of X rays and their interaction with material.

Paper: Atomic Spectra and Laser

CO 1: Students will understand the one electron atomic spectra, concept of Zeeman effect, Spin orbit coupling, Lande's-g factor will be introduced to them.

CO 2: Students will study about the spectra of many electron systems e.g. of Helium and Alkaline Earth Spectra.

CO 3: Moreover, they will learn about the LS, JJ Coupling schemes.

CO 4: Students will understand the fundamentals of Laser. They will be given knowledge about the basic condition required for the laser action.

CO 5: They will learn about the principle, Construction and working of different lasers: Ruby laser, Nd:YAG laser, He-Ne and Carbon dioxide laser. Further, they will study about the practical applications of lasers. Concept of Holography will be introduced to them.

Semester-V

Paper: Condensed Matter Physics

CO 1: Students will learn about the basics of crystal structure and symmetries operation in two and three dimensional crystals.

CO 2: Experimental methods for crystal structure studies will be introduced to the students.

CO 3: Students will be able to understand various reciprocal lattice, construction of Brillouin Zone in Two and three dimensions.

CO 4: Concept of Phonons will be introduced to the students. Moreover, they will be able to calculate the density of modes of vibrations.

CO 5: Students will learn about the basic concepts of band theory and differentiate between conductors, semi-conductors and insulator using Kronig-Penny model.

Paper:Electronics

CO 1: Students will study about the junction diodes and their applications.

CO 2: Students will learn about transistors and the characteristics of their different configurations.

CO 3: Students will gain knowledge about h parameters and their use for amplifier analysis.

CO 4: They will understand the concept of feedback and use of negative feedback in amplifiers.

CO 5: They will understand Barkausen condition for sustained oscillations as well as construction and working of different types of oscillators.

Semester-VI

Paper: Nuclear Physics

CO 1: Students will learn about the constituents of nucleus and various properties of nucleus.

CO 2: Students will be introduced with the various modes of decay of radioactive nuclides and the laws governing the radioactive decay.

CO 3: Students will gain knowledge about different types of nuclear reactions, their reaction cross section and conservation laws followed by them.

CO 4: They will be explained different Nuclear models- Liquid drop model and shell model.

Paper: Radiation and Particle Physics

CO 1: Students will be introduced to various types of accelerators used for accelerating the charge particles.

CO 2: They will learn about Large Hadron Collider, which is world's largest accelerator.

CO 3: Different modes of interaction of heavy charge particle with matter will be introduced. They will learn how the incident particle losses its energy when it enter into the matter.

CO 4: Students will learn Bethe-Bloch formula which tells about the energy loss per unit length when a charged particle enters into the matter.

CO 5: Students will be introduced to various ways of interaction of gamma rays with matter.Photoelectric effect, Compton effect and pair production processes will be explained to them.

Department of Chemistry

Name of Programme:B.Sc. (Medical)/ (Non-Medical)/ (Computer Science)

Course Outcomes

Chemistry

Semester-I and II

Paper: Inorganic Chemistry

CO 1: This course imparts essential knowledge regarding Quantum mechanical approach to atomic structure, periodic properties, general characteristics of all the elements, their compounds, structure and preparation methods of compounds, chemical bonding, semi-conductors and defects in solids.

CO 2: Students get a thorough knowledge on overall inorganic chemistry. They learn role of metal in living system.

CO 3: Students learn modern theories of Acids and Bases.

Paper: Organic Chemistry

CO 1: This course make students capable of understanding and learning nomenclature and classification of organic compounds and basic concepts of organic chemistry like– reaction mechanism, intermediates and attacking reagents etc.

CO 2: Students learn preparation and properties of organic compounds like Hydrocarbons, Haloalkanes and Aromatic compounds.

Paper: Physical chemistry

CO 1: This course enables the students to learn about the various states of matter (colloids, gaseous, liquid and solutions) with their properties, inter-particle forces and laws governing these states.

Paper: Practicals

CO 1:Course develops the skills to determine physical constants like melting points and boiling points.

CO 2: Develops skill of crystallization.

CO 3:Develops skill regarding systematic qualitative analysis of inorganic mixtures containing two acidic and two basic radicals by semi micro method of analysis.

CO 4: Students learn and perform experiments related to physical chemistry i.e. Surface tension, viscosity Chemical Kinetics and Thermodynamics.

Semester-III and IV

Paper: Inorganic Chemistry

Students learn about:

CO 1: Advanced Theories on coordination Chemistry, Structure, Bonding and Stereochemistry of important Coordination Compounds.

CO 2: Redox behaviour of elements.

CO 3: Non-Aqueous solvents.

CO 4: Chemistry of Lanthanides and Actinides.

CO 5: Bioinorganic Chemistry.

Paper: Organic Chemistry

Students are imparted a thorough knowledge about:

CO 1:Modern Aspects of stereochemistry

CO 2: Synthesis and properties of some important class of organic compounds with mechanism.

CO 3: Organometallic compounds

CO 4: Heterocyclic compounds

Paper: Physical chemistry

Students get acquainted with the knowledge of:

CO 1: Basic concepts and Laws of Thermodynamics

CO 2: Distribution Law

CO 3: Chemical and Phase Equilibrium

Paper: Practical

Students are exposed to the skills of:

CO 1: Techniques of Thin Layer Chromatography

CO 2: Quantitative estimations of different ionic species using different branches of Volumetric and Gravimetric Analysis

CO 3: Qualitative analysis of organic compounds with synthesis of their derivatives and physical constant determinations.

Semester-V and VI

Paper: Inorganic chemistry

Students learn:

CO 1: Crystal Field Splitting in coordination complexes, their stability, colour and magnetic properties and use of magnetic moments for interpretation of their structures.

CO 2: Electronic transitions, selection rules and Term symbols.

CO 3: Thorough knowledge of Organometallic chemistry.

Paper: Organic Chemistry

Students are introduced to:

CO 1: Different spectroscopic methods of analysis which includes UV, IR & NMR techniques.

CO 2: Study of Carbohydrates, Polymers, Organosulphur compounds, Amino acids, Proteins, RNA and DNA.

CO 3: Synthesis of different organic compounds via enolateions.

Paper: Physical chemistry

Students are exposed to the study of:

CO 1: Various forms of electrochemical cells.

CO 2: Conductance and related laws.

CO 3: Nuclear reactions
CO 4: Physical aspects of various branches of Spectroscopy.
CO 5: Quantum mechanics
CO 6: Various types of Crystal Systems
CO 7: Photochemistry

Paper: Practical

Students are introduced to the techniques of:
CO 1: Synthesis of organic and inorganic compounds
CO 2: Column chromatography
CO 3: Various physical chemistry experiments related to conductometry and refractometry.
CO 4: Rast method, Distribution Law and Adsorption Isotherm

Name of Programme: B.Sc.(Biotechnology)

Course Outcomes

Chemistry

Semester-I and II

Paper: BT-3 Inorganic Chemistry

This course provides detailed knowledge about:

CO 1: Coordination compounds and various theories like VBT, CFT & MOT explaining the bonding inthese compounds.

CO 2: Macrocyclic ligands, Carbonyl compounds, Bioinorganic compounds like Haemoglobin, Myoglobin, Carboxypeptidasechlorophyll etc and the role of metal ions in this compounds.

Paper: BT-4 Organic Chemistry

CO 1: This paper provides detailed knowledge about all types of Isomerism i.e Conformational, Geometrical and Enantiomerism, Sequence rules for E, Z or S, Specification to the compounds, Structures, Nomenclature, preparation methods and properties with mechanism of different functional groups.

Semester-III and IV

Paper: Physical Chemistry

This course provides detailed knowledge about:

CO 1: Chemical thermodynamics, Solutions, various types of solutions, colligative properties, Von't Hoff factor, Phase equilibria, various phase diagrams.

CO 2: Electrochemical cells their types, Nernst Equation.

CO 3: Chemical kinetics and Rate order Equations.

Semester-V and VI

Paper: Spectroscopy

This course provides detailed knowledge about:

CO 1: UV visible spectroscopy

CO 2: Infrared spectroscopy

CO 3: Nuclear,Magnetic Resonance Spectroscopy

CO 4: This course helps in structure elucidation of newly synthesized compounds.

Name of Programme: M.Sc.(Chemistry)

Semester-I

Paper: Ligand Field theory

CO 1: This course imparts essential knowledge in the field of understanding of LFT.

CO 2: This course helps students to understand various concepts of LFT like symmetry, MOT for metal complexes, Inter electronic repulsions, Free ion in medium and strong crystal field, Magneticproperties and Electronic spectra of transition metal complexes.

Paper: Organic Reaction Mechanism-I

CO 1: This course makes students capable to understand various reactions involved in Organic mechanism.

CO 2: Students learnt about stereochemistry, aromatic compounds, nature of bonding in organic reactions, reaction mechanism, structure and reactivity, Aliphatic Nucleophilic Substitution, Aliphatic Electrophilic Substitution and Aromatic Nucleophilic Substitution.

Paper: Physical Chemistry-Thermodynamics

CO 1: This course provided detailed knowledge about thermodynamics which is one of the most important topics of Physical chemistry.

CO 2: Students gained information about:
Classical Thermodynamics
Statistical Thermodynamics
Partition Functions
Non- Equilibrium Thermodynamics

Paper: Spectroscopy-A

CO 1: This course makes student aware of different spectroscopic technique used in elucidation of structure and bonding of organic compounds.

CO 2: Students learn instrumentation of Nuclear Magnetic Resonance, Mass Spectroscopy, Ultraviolet and Visible Spectroscopy and Infrared Spectroscopy

CO 3: Students solve various structural problems by combined use of NMR, Mass, Electronic and vibrational Spectroscopic techniques.

Paper: Computer for Chemists

CO 1: Students come to know about various applications of computers in chemistry.

CO 2: Students develop skills in Programs in C-Language. Students also make programs for calculation of mean, median and Mode,calculation of Bohr Orbit and many more.

Paper: Inorganic Chemistry Practical

Quantitative Analysis-

CO 1: Students learn and perform various types of titration and analysis in their practical.

CO 2: Students perform:
Oxidation- Reduction Titrations
Precipitation Titrations
Complexometric Titrations
Gravimetric Analysis

Paper: Organic Chemistry Practical

CO 1: Students carry out experiments of purification and characterization of organic compounds.

CO 2: Students learn about thin layer chromatography.

CO 3: Students synthesize various organic compounds and also extracted of caffeine from tea leaves and isolation of casein from milk.

Semester– II

Paper: Organometallic Chemistry

CO 1: Students gain knowledge about bonding inorganometallic compounds.

CO 2: Students learn about energy, polarity and reactivity of M-C bonds.

CO 3: Students also understand the reactions of coordination ligands and pi-acid ligands.

Paper: Organic Reactions Mechanism-II

CO 1: Students come to know about various reactions and mechanism in this course.

CO 2: Students learn about:
Free Radical Reactions
Elimination Reactions

Addition to Carbon-Carbon Multiple bonds
Addition to Carbon-Hetero Multiple bonds
Formation of Carbon-Carbon bonds
Oxidation
Reduction

Paper: Physical Chemistry-Quantum Chemistry

CO 1: Students come to know about quantum mechanics in this course

CO 2: Students study.

Quantum theory: Introduction and principles
Operators and Observations
Application of Quantum Postulates
Angular Momentum
General Orbital theory of Conjugated Systems
The Approximate Methods

Paper: Reaction Mechanics and Metal Clusters

CO 1: Students are imparted knowledge about reaction mechanics and metal clusters

CO 2: Students learn:

Reaction Mechanism of Transition Metal Complexes
Electron transfer reaction
Inner sphere and outer sphere Electron transfer reactions
Metal-Ligand Equilibria in Solution
Inorganic Rings, Chains and Metal Cluster

Paper: Spectroscopy – B

CO 1:Students gain knowledge about:

Symmetry and Point groups
Vibration and Rotation Spectroscopy: Infrared, Raman and Microwave and their applications
Photo Electron Spectroscopy
Electron Spin Resonance Spectroscopy
Nuclear Quadruple Resonance Spectroscopy
Mossbauer Spectroscopy

CO 2:Students also learn about various Spectroscopic instruments used in structure elucidation of inorganic compounds.

Paper: Mathematics for Chemists (For Medical Students)

CO 1: Students are able to solve various problems of:

Trignometry and Determinants
Matrices
Differential Calculus
Integral Calculus

CO 2:Students learn various methods and tricks of mathematics which would be helpful in Chemistry.

Paper: Biology for Chemists (For Non-Medical Students)

CO 1: This course enables students to deal with biology involved in chemistry.

CO 2: Students come to know about:

The Organization of Life
Genetics
The Diversity of Life

Students also learn about the cell organization and classification of living things in this course.

Paper: Organic Chemistry Practical

CO 1:Students learn how to synthesize organic compounds in this practical.

CO 2:Students perform multistep organic synthesis by using various apparatus like reflux condenser.
CO 3: Students also performquantitative analysis of organic compounds.

Paper: Physical Chemistry Practical

CO 1: Students understand various methods of determining strength of Acids and Bases by using pHmeter and conductometer.

CO 2: Students perform various titrations to determine Dissociation constant, Equillibrium constant, solubility.

Department of Zoology

Name of Programme: B.Sc. Medical

Course Outcomes

Semester-I and II

Paper: IA Cell Biology

CO 1: To acquaint students with the central role of cell in the biological organization.

CO2: To educate students about the structure and function of various cell organelles along with their molecular interaction within and out of the cell.

CO 3: Students are provided the knowledge regarding the basic techniques such as microscopy (light, phase contrast and electron microscopy), fixation and staining techniques, used in the study of cell and its abnormalities as well as the principle of these techniques

CO 4: Students are educated about the cellular transformations leading to the development of cancer and the cellular level of immunity.

Paper: IB and IIB Biodiversity

CO 1: To acquaint students with different levels of biological diversity and the evolutionary links between different phyla.

CO 2: To educate students about the scientific classification of invertebrate fauna and equip them with the ability to recognize the organism using the taxonomic characters of particular phylum.

CO 3: Students are provided the knowledge regarding morphological, anatomical and physiological features of type specimens of each phylum along with their economic importance.

CO 4: Introduction to the pathogenic organisms, their life cycle including the larval stages, mode of transmission, their pathogenicity and the parasitic adaptations.

CO 5: To create interest for preparation of natural compost out of kitchen and garden waste such as vermicomposting by using earthworms.

CO 6: To stimulate curiosity among the students regarding social life in insects such as honey bees and termites and educate them about the importance of coordination and social behaviour in the living world.

Paper: II A Ecology

CO 1: To educate students about the basic principles, subdivisions and scope of ecology in biology, environmental sciences and the various challenges faced by the relevant parts of social sciences.

CO 2: To create awareness among the students regarding the structure and functioning of ecosystems, the distribution ad occurrence of living organisms in the physical environment, the complexity of interactions between organisms and their environments.

CO 3: The students acquainted with the components of major ecosystems of the world, ecological energetic, ecological succession, biogeochemical cycles, productivity and concepts of limiting factors.

CO 4: The students are provided information regarding challenges posed by different environmental conditions and the various adaptations acquired by the organisms to survive in the particular habitats.

CO 5: Curiosity of students is being aroused towards inter and intra specific interactions such as commensalism, mutualism, parasitism and predation occurring among the organisms.

CO 6: Awareness is created among the students regarding the causes, impact and control measures of increasing environmental pollution.

Semester-III and IV

Paper: IIIA (Evolution)

CO 1: Understand the central role of evolution in describing the origin and diversification of biodiversity, its maintenance and how we should conserve it or methods of its conservation.

CO 2: To acquaint students with basic concepts of origin of life, theories and evidences of evolution, concepts of micro, macro and mega evolution.

CO 3: To educate students about the eras and geological time scale, evolutionary rate, emergence of various species, origin and extinction of reptiles with special reference to climate change and the evolution of man.

CO 4: Students are provided the knowledge regarding fossils, its types and the significance of fossils in analysing the evolution of various life forms in respective eras and the factors responsible for their extinction.

CO 5: Students are educated about the concept of adaptive radiations by with the help of peculiar examples, various adaptations, migration and parental care shown by various species.

Paper: IIIBBiodiversity-III

CO 1: To educate students about the hierarchy and diversity of chordates, basic characteristic features of chordates and the organisms showing affinities with both Chordates and Non-chordates.

CO 2: The detailed knowledge of structural organization and functioning of various systems in organisms belonging to different phyla, the type study of a representative specimen of each phylum is provided to the students.

CO 3: stimulate curiosity among the students regarding social life in insects such as honey bees and termites and educate them about the importance of coordination and social behaviour in the living world.

CO 4: The students are imparted knowledge regarding the adaptations andeconomic importance of specific vertebrates.

Paper: IVA Biochemistry

CO 1: To educate students about the basic principles and chemistry of living organisms, the scope of biochemistry in clinical diagnosis, manufacturing of biological products and treatment of diseases.

CO 2: To familiarize the students to various biochemical pathways occurring in living systems, the importance of biomolecules.

CO 3: To create awareness among the students regarding the biochemical functioning of human body, its organs, and the cells of which they are composed.

CO 4: The students are acquainted with the structure and functions of macromolecules such as carbohydrates, lipids, proteins and nucleic acids as well as the nature and classification of enzymes including the role of coenzymes in the normal functioning of enzymes.

Paper: IV B Animal Physiology

CO 1: To educate students about the basic principles and fundamentals of animal physiology.

CO 2: The students are acquainted with the components of major ecosystems of the world, ecological energetic, ecological succession, biogeochemical cycles, productivity and concepts of limiting factors.

CO 3: The students are provided information regarding the detailed concepts of various physiological processes such as digestion, respiration, excretion, circulation, etc. occurring in the human body which is crucial for its survival.

CO 4: Curiosity of students is being aroused towards coordination and integration of nervous system with endocrine system.

CO 5: Awareness is created among the students regarding the physiology of behaviour, learning and reasoning.

Semester-V and VI

Paper: VA Developmental Biology

CO 1: To introduce the students to the fundamentals of developmental biology, various stages in the development of embryo and gametogenesis.

CO 2: The students are familiarized with the role of organizer and inducers in the development of embryo, the basic concepts of determination, differentiation and gastrulation.

CO 3: The students are provided information regarding the formation of foetal membranes, their role, and development of frog, chick and rabbit upto three germinal layers, their fate maps and the nature and physiology of placenta.

CO 4: The students are equipped with the knowledge of metamorphosis, regeneration, ageing and death.

Paper: V B Genetics

CO 1: To familiarize students with the central role of genetics in the study of biology and the life of an organism.

CO 2: The students are provided the information regarding genetic variation through crossing over, recombination and linkage, the concepts of multiple alleles, qualitative and quantitative multiple factors, their inheritance, non-allelic gene interaction and modifications of Mendelian ratios.

CO 3: The students are able to understand the basic concepts of gene and genetic code, replication and transcription of DNA, expression of genes and their regulation.

CO 4: The students are also acquainted with the extranuclear inheritance and spontaneous and induced mutations, physical and chemical mutagens, somatic mutations and carcinogenesis.

Paper: VI A& B Medical Zoology&Medical Laboratory Technology

CO 1: The students are introduced to the terminology of Parasitology, various pathogenic microbes, their life history, and mode of infection, pathogenicity with reference to man; prophylaxis and treatment.

CO 2: The students are familiarized with laboratory techniques including histopathology, staining techniques, culture media, sterilization and disinfection.

CO 3: The students are equipped with the knowledge of laboratory safety rules, hazards and precautions during laboratory investigations and procedure of collection, transportation and preservation of different clinical samples.

CO 4: The students are also acquainted with Haematology, anticoagulants (merits and demerits), Romanowsky's stains, total RBC count, erythrocyte sedimentation rate, TLC, DLC, platelet count.

CO 5: The introduction tohuman defence mechanisms, serodiagnostic assays and vaccines and their use in diagnosis, treatment and prevention of occurrence of diseases.

Department of Botany

Name of the Programme: B.Sc. (Medical)

Course Outcomes

Semester- I

Paper: Diversity of Microbes

CO 1: This course will facilitate students to understand General characters, classification and economic importance, important features and life history of various genera of Algae.

CO 2: To facilitate students to note down different characteristics features of various classes of microorganisms under Bacteria and viruses and also give in detail regarding their life cycle and economic importance.

CO 3: To make them familiar with different characteristics features of various classes of Mastigomycotina, Zygomycotina and Ascomycotina.

CO 4: To put in plain words the students about different characteristics features of various classes of Basidiomycotina and Deuteromycotina.

CO 5: To clarify the students about different characteristics features of Lichens.

Paper: I B: Diversity of Cryptogams

CO 1: This course will aid students to understandgeneral characters, classification and economic importance, important features and life history of Bryophyta.

CO 2: They will be taught to general characters of different generas under class Hepaticopsida

CO3: This course will help students to understand general characters of generas under class Anthocerotopsida and Bryopsida.

CO 4: This course will assist them to be acquainted with General characters, classification and economic importance, important features and life history of various genera of Pteridophyta.

CO 5: This course will facilitate students to understand general characters of various genera of Pteridophyta.

Semester -II

Paper: I A Cell Biology

CO 1: To make them learn basic level of structural organization and function of Nucleus.

CO 2: The students will understand extra nuclear Genome.

CO 3: To make students well versed with Chromosome Organization

CO 4: They will learn about various chromosome alterations.

CO 5: This course will make students well versed with cell wall and cell membrane.

Paper: I B Genetics

CO 1: To make them learn fine structure of DNA, the Genetic Material.

CO 2: The students will understand Genetic regulation of Cell division.

CO 3: To make them familiar with Regulation of Genetic expression.

CO 4: To make them acquainted with genetic variation.

CO 5: This course will make students well versed with DNA damage and repair structure.

Semester- III

Paper: A Structure, Development and Reproduction in Flowering Plants

CO 1: To illuminate the students to understand diversity and branching in flowering plants.

CO 2: This course will help students to understand the shoot system and various tissues present in it.

CO 3: To simplify the students about the general structure of wood and their variation.

CO 4: To explain the students about the Origin, development, arrangement and diversity in size and shape of leaf.

CO 5: To understand the various adaptations of leaves in relation to photosynthesis.

Paper: B Structure, Development and Reproduction in Flowering Plants–II

CO 1: They will come to learn root system in plants.

CO 2: To give explanation about vegetative reproduction and structure of flower.

CO 3: To give details to understand structure of male and female gametophyte.

CO 4: To illuminate students to understand mechanism of double fertilization and structure of seed.

Semester-IV

Paper: IV A Diversity of Seed Plants and their Systematics- I

CO 1: This course will help out students to know characteristics of seed plants.

CO 2: To know general features of gymnosperms and their classification.

CO3: The students will learn know geological time scale and fossilization.

CO4: This course will help students to know morphology of vegetative and reproductive parts in Pinus and Cycas.

CO5: This course will help students to know morphology of vegetative and reproductive parts in Ephedra.

Paper: IV B Diversity of Seed Plants and their Systematics–II

CO 1: This course will assist them to be acquainted Angiosperm taxonomy.

CO 2: They will be taught different components of classification.

CO 3: They will be well versed with Botanical nomenclature.

CO 4: They will learn different classification system.

CO 5: The students will get information about Diversity of flowering plants as illustrated by members of the different families.

Semester-V

Paper: V A Plant Physiology

CO 1: To describe the students about Plant-Water Relation.

CO 2: To facilitate students about different steps Mineral Nutrition in plants.

CO 3: To make clear the students about Transport of Organic Substances in plants.

CO 4: To simplify the students about Photosynthesis, Photorespiration CAM process.

CO 5: To help students to know growth and development in plants.

Paper: V B Biochemistry and Biotechnology

CO 1: They will learn basic of enzymology.

CO 2: To understand different Respiration process in plants.

CO 3: To recognize different steps in nitrogen and Lipid Metabolism.

CO 4: They will understand different aspects of genetic engineering.

CO 5: This course will help students understand basic aspects of biotechnology.

Semester–VI

Paper: VI A Ecology

CO 1: To familiarize students to understand Plants and different components of environment.

CO 2: To give details study about Community and population Ecology.

CO 3: This course will help students to understand different biotic and abiotic components of ecosystem.

CO 4: To give details the students about Bio geographical Regions and Vegetation types of India.

CO 5: This course will help students to understand landscape ecology.

Paper: VI B Economic Botany

CO 1: The students will learn different food plants.

CO 2: To familiarize students to understand source of fibres and vegetable oils.

CO 3: The main objective is to understand different source of spices.

CO 4: To make them to understand importance of different medicinal plants.

CO 5: This course will help the students to understand different sources of beverages and rubber in our life.

Name of Programme: M.Sc. Botany

Course Outcomes

Semester- I

Paper: BOT C512 Fungi and Plant Pathology

CO 1: This course will assist them to be acquainted with Gymnomycota and Mastigomycota and Amastigomycota.

CO 2: To facilitate students to note down Principles and methods for the prevention and control for plant diseases.

CO 3: They will understand Symptomatology, identification, etiology and control measures of plant diseases.

CO 4: They will learn different bacterial and virus diseases.

CO 5: To endorse about sex hormones and mycorizal association in fungi.

Paper: BOT C514 Plant Physiology

CO 1: The students will learn different Plant-Water Relation and energy thermodynamics in plants.

CO 2: To facilitate students about different steps in nitrogen and sulphur metabolism in plants.

CO 3: This course will help students to know signal transduction in plants

CO 4: To make them learn different Interaction between nitrate assimilation and carbon metabolism.

CO 5: This course will help students to know Synthesis and function of glutathione.

Paper: BOT C516 Theoretical Biology

CO 1: This course will assist students to know linear, power and periodic function.

CO 2: They will learn about Exponential and Logarithmic Functions.

CO 3: To make them clear about integration and probability.

CO 4: They will be aware of Differentiation and Integration:

CO 5: This course will help students to know Statistics and ANOVA.

Paper: BOT C517 Genetics and Evolution

CO 1: To make them learn fine structure, Properties and replication of genetic material.

CO 2: The students will understand Genetic regulation of cell cycle, genetic Transposable Genetic Elements.

CO 3: To make them familiar with Regulation of Gene Expression in Prokaryotes.

CO 4: To make them acquainted about Paleontology and Evolutionary History.

CO 5: This course will help students to know Organic evolution.

Paper: BOT C518 Phycology

CO 1: They will become well versed with habitat and habit, comparative account of important system of classification (Fritsch and Lee).Organization of thallus, structure of algal cell.

CO 2: To understand comparative account of food reserves, reproductive diversity, and life history patterns in Chlorophyta and Charophyta.

CO 3: To make them learn different comparative account of food reserves, reproductive diversity, and life history patterns in Pheophyta and Rhodophyta.

CO 4: This course will help students to understand cynophyta.

CO 5: They will find out economic importance of algae.

Paper: BOTC 519 Computer Applications and Bioinformatics

CO 1: This course will update students about overview of word software.

CO 2: To streamline students to understand Worksheet and Working with Formulae.

CO 3: To give introduction to MS Power Point

CO 4: To present introduction to Bioinformatics

CO 5: To enable the students getting information about Nucleic acid and protein databases.

Paper: BOT C522 Diversity and Biology of Gymnosperms

CO 1: This course will assist them to be acquainted with habitat and habit, structure and complexity in Gymnosperms.

CO 2: To facilitate students to note down comparative account different orders of Gymnosperms.

CO 3: To endorse about evolutionary tendencies in Gymnosperm.

CO 4: They will understand pollination mechanisms in Gymnosperms.

CO 5: To formalize students with aspect of cytology in Gymnosperms.

Semester-II

Paper: BOT C523 General Microbiology

CO 1: This course will facilitate students to know basic methods in study of microorganism.

CO 2: They will learn about nomenclature and classification of plant viruses.

CO 3: To make them clear about different uses of microorganism in Environment.

CO 4: They will be aware of different uses of microrganism in industry

CO 5: This course will help students to recognize control of Microorganisms by physical and chemical means.

Paper: BOT C524 Cell Biology

CO 1: To make them learn basic level of structural organization of cell.

CO 2: The students will understand structural organization and function of Intracellular Organelles.

CO3: To make them familiar with different organization of Genes and Chromosomes.

CO 4: To make them acquainted about cell division and cell cycle.

CO 5: They will learn different components of cell communication.

Paper: BOT C527 Bryology

CO 1: This course will help students to familiar with habitat and habit, structure and complexity in Bryophytes.

CO 2: They will know comparative account of gametophytes and sporophytes in Bryophytes.

CO 3: To make them understand evolutionary tendencies in Evolution of gametophyte and sporogonium in liverworts and mosses.

CO 4: They will understand different Means of spore dispersal.

CO 5: They will learn about different characteristics of bryophytes.

Paper: BOT C 528 Pteridology

CO 1: They will get information of different theories in origin of Pteridophytes.

CO 2: To formalize students about general characters and classification of pteridophytes.

CO 3: To understand comparative account of different orders of Pteridophytes.

CO 4: They will learn about different kind of vegetative reproduction in Pteridophytes.

CO 5: They will get information about different uses of Ferns in phytoremediation.

Paper: BOT C529 Ecological Modelling and Forest Ecology

CO 1: To make students to understand population growth graph and factors affecting growth.

CO 2: To make students familiar with interaction between Two Species.

CO 3: The students will understand association analysis and community classification.

CO 4: To understand different kind of production and energy flow in ecology.

CO 5: They will be comprehended with different Environmental Law & Policy for protection of wild life.

Semester-III

Paper: BOT C612 Developmental Botany

CO 1: This course will help students to understand different kind of pollination methods in angiosperms.

CO 2: This course will aid students to understand different steps of fertilization.

CO3: To facilitate students to understand different kind of endosperm and embryo formation.

CO 4: To understand different aspects of Embryology & Taxonomy:

CO 5: They will be comprehended with Role of Embryology in Plant Breeding

Paper: BOT C613 Plant Molecular Biology

CO 1: The students will learn DNA and RNA structure.

CO 2: To facilitate students about different steps and tools in Recombinant DNA technology.

CO 3: This course will help students to understand different kind molecules formed with Recombinant DNA technology.

CO 4: To make them learn different Genomics and proteomics.

CO 5: They will know different Role of Recombinant DNA technology.

Paper: BOT C614 Plant Breeding and IPR

CO 1: To facilitate students about Primary and secondary centers of diversity.

CO 2: To make students to understand different breeding systems of crop species.

CO 3: They will learn different breeding methods for disease resistance crops production.

CO 4: To streamline students to understand different kinds of mutations and their role in crop production.

CO 5: They will get information of different aspects of Intellectual Property Rights: (IPR/TRIPS.

Paper: BOT C615 Plant Biochemistry

CO 1: To make them learn Plant-Cellular chemistry.

CO 2: The students will understand carbohydrates metabolism in plants.

CO 3: To make them familiar with Lipid Metabolism in plants

CO 4: To make them acquainted about Enzymology.

CO 5: They will learn different Enzyme Kinetics.

Paper: BOT C616 Applied Botany

CO 1: To facilitate students about history, source and nature of food plants.

CO 2: This course will help students to recognize different kind of forest products and their sources.

CO 3: To make them learn different industrial plant products and their sources and formation.

CO 4: They will know different types of fibre yielding plants.

CO 5: They will be comprehended with different rubbers and dye yielding plants and their formation.

Paper: BOT C617 Plant Morphogenesis

CO 1: They will become well versed with Correlation between Physiology and genetic.

CO 2: To understand symmetry and differentiation in plant tissue culture.

CO 3: This course will help students to know regenration and different kind of tissue mixture used.

CO 4: To make them learn different types of Abnormal Growth of organs.

CO 5: They will identify different morphogenetic factors.

Semester-IV

Paper: BOT C621 Plant Anatomy

CO 1: They will learn the shoot and root system in plants.

CO 2: To give information about Nodal and Floral anatomy.

CO 3: They will be familiar with histology of wood.

CO 4: The students will gain knowledge about Functional anatomy, fruit and Seed anatomy.

CO 5: They will know different kind of Laticifers and Lenticels tissues.

Paper: BOT C622 Structure and Metabolism of Plant Hormones

CO 1: This course will help students to know the general features of Plant Hormones, their analysis, and quantitation.

CO 2: To enable them getting information of Auxins andGibberlins.

CO 3: To endorse them to know Cytokinins, Ethylene and Absicic acid.

CO 4: To formalize students about Jasmonates and other Defense-Related Compounds.

CO 5: They will get information of Microbial Synthesis of Plant Hormones.

Paper: BOT C623 Plant Tissue Culture and Biotechnology

CO 1: To make students well versed with the Cytogenetics and differentiation in cell and tissue culture.
CO 2: This course will help out them to understand Somaclonal variations and artificial seeds production.
CO 3: To abridge about techniques for the production of transgenic plants.
CO 4: This course will help students to know about cell culture and secondary metabolites production.
CO 5: To make clear the about techniques used in Cryobiology of plant cell cultures.

Paper: BOT C624 Analytical Techniques

CO 1: To aware them about principles and application of different analytical techniques.
CO 2: To make them well knowledgeable with principles and applications of gel filtration.
CO 3: This course will help students conversant with techniques for principles of biophysical methods used for analysis of bio polymeric structure.
CO 4: To make students to be acquainted with principles and techniques of nucleic acid hybridization.
CO 5: To enable them getting information about different spectroscopy techniques.

Paper: BOT C626 Diversity and Biology of Angiosperms

CO 1: This course will assist them to be acquainted with the historical perspective of plant classification.
CO 2: To facilitate students to note down principles of plant nomenclature and different classification system.
CO 3: To endorse about principles of plant taxonomy and different relation between taxonomy approaches.
CO 4: The course will enable to be familiar with different Taxonomic tools
CO 5: To formalize students to know different concepts of phytogeographyand different phytogeography regions of the world and India.

Paper: BOT C724 Hazardous Chemicals (Optional Paper)

CO 1: This course will update students about the physical properties of different chemicals and their target organs.
CO 2: To streamline students to understand Combustible and Explosive properties of chemicals
CO 3: This course will help out students to know different chemicals.
CO 4: To assist students knowing about different Pestisides.
CO 5: To enable the students getting information about different Herbicides.

Paper: BOT C725 Immunology (Optional Paper)

CO 1: This course will facilitate students to know about the Immune System.
CO 2: The course will allow students to recognize Antigens and Antigen Recognition.
CO 3: To make them clear about different Antibodies and their properties.
CO 4: They will learn about different cells and tissues of Immunity.
CO 5: The students will learn about different immune system in health & disease.

Department of Bio-Informatics

Name of the Programme: B.Sc. (Bio-Informatics)

Course Outcomes

Semester-I

Paper: A Fundamentals of Computers, Molecular Biology & r-DNA technology

The paper will help the students in understanding:

CO 1: Students will be familiar with the working of computers and different operating systems
CO 2: Students will be able to prepare documents with proper formatting
CO 3: Students will be capable to share their ideas in form of a power point presentation
CO 4: Students will learn about Data entry, analysis and visualization using Excel
CO 5: Learners will know how to connect computers with other computers, internet, Wi-Fi

CO 6: Students will get an idea to design a webpage
CO 7: Students will get familiar with various biomolecules including DNA, RNA, Proteins and their structure.
CO 8: The students will understand the molecular journey from DNA to Proteins
CO 9: Students will be aware of various steps of r-DNA technology

Semester-II

Paper: Basic Mathematics, Biostatistics, DBMS

CO 1: Basic knowledge will be imparted about mathematical functions including trigonometric, differential etc.
CO 2: Students will know to represent multi-dimensional data using matrices and will be able to apply different operations on matrices
CO 3: Student will get an idea to create a database

Semester-III

Paper: Introduction to Biological Databases

CO 1: Students will be sensitized about diversity and complexity of biological data
CO 2: Students will get an idea about size of biological data
CO 3: Learners will be familiar with biological databases
CO 4: Knowledge will be given about various data formats to store molecular data

Semester-IV

Paper: Computer Programming in C++ and Perl

CO 1: Students will develop logical thinking and programming
CO 2: Students will be able to write programs to analyze biological data
CO 3: Students will get acquainted with variousBioperl objects and their application

Semester-V

Paper: Computational Methods for Sequence Analysis

CO 1: Students will know how to compare DNA/Protein sequences
CO 2: Students will learn basics of statistics and machine learning techniques
CO 3: Students will be trained to predict secondary structure of proteins
CO 4: Students will be aware of various methods of protein classification

Semester-VI

Paper: Structural Biology and Molecular Modeling

CO 1: Students will know the basic concepts of molecular modeling
CO 2: Students will be able to represent chemical information on computers
CO 3: Knowledge will be given to use computers to study molecular interactions (e.g. Drug-Target interaction)
CO 4: Students will be aware of the process of drug design & development
CO5: Students will further know about computer aided drug design

Name of Programme:M. Sc. Bioinformatics

Course Outcomes

Semester-I

Paper: BI-511 Basic Concepts in Biology

CO 1: Different types of living cells and biomolecules will be introduced to the students
CO 2: Overview of cellular metabolism will be given to students
CO 3: Students will get aware of different components of immune system

Paper: BI-512 Database Management and Data Mining

CO 1: Students will be skilled to create databases

CO 2: Learners will be aware of various methods for storing, retrieving manipulation of data
CO 3: Students willknow Different ways to search data from databases

Paper: BI-514 Computer Fundamentals, Networking, Web Technology and Basics of C Programming Language

CO 1: Students will acquire knowledge of MS Word, PowerPoint and Excel
CO 2: Students will be able to prepare PowerPoint presentation
CO 3: Students will learn about data entry, analysis and visualization using Excel
CO 4: Students will acquire skills of connecting computers with other computers, Internet, Wi-Fi
CO 5: Students will be familiar with fundamentals of Webpage designing

Paper: BI-515 Introduction to Bioinformatics and Biological Databases

CO 1: Students will know basic concepts of Bioinformatics
CO 2: Students will understand diversity and complexity of biological data
CO 3: Students will be aware of various databases to store specific biological information
CO 4: Students will be familiar with different formats to store biological data

Paper: BI-516 Practicals Based on Database Management and Computer Fundamentals Web Technology and Basics of C Programming Language

CO 1: Students will be able to Develop databases related to biological data
CO 2: Working of Computers and Different Operating Systems will be demonstrated to students
CO 3: Students will know fundamentals of preparing documents, formatting, printing etc.
CO 4: Students will be able to prepare PowerPoint presentation
CO 5: Students will learn about data entry, analysis and visualization using Excel
CO 6: Students will be introduced to logical thinking and programming

Paper: BI- 517 Practical's Based on Biological Databases

CO 1: Students will get acquainted with different formats of biological data to store data
CO 2: Students will be gain ability to explore data for different types of research work
CO 3: Students will know the tricks to access specific sequence and structural data from various biological databases
CO 4: Students will be confident to search and install a variety of Open Source tools to analyze biological data

Semester-II

Paper: BI-521 Concepts in Molecular Biology & r-DNA Technology

CO 1: Students will understand the processes of replication, transcription & translation in molecular biology
CO 2: Students will get familiar with the concept of molecular cloning
CO 3: Students will be familiar with various cloning vectors ad enzymes for manipulating DNA

Paper: BI-522 Programming in C++ and Visual Basic

CO 1: Learners will be introduced to logical thinking and its implementation in writing computer programs
CO 2: Students will be able to write programs to analyze biological data
CO 3: Design various types of forms and applications

Paper: BI-523 Basic Mathematics

CO 1: Students will gain basic knowledge of mathematical functions including trigonometric, differential
CO 2: Students will be confident in dealing with multi-dimensional data using matrices, different operations on matrices
CO 3: Students will be familiar with Integration, Differentiation

Paper: BI-524 Computational Methods for Sequence Analysis

CO 1: Students will be made aware about the analysis of various types of biological data

CO 2: Students will be familiar with various software and databases used in analysis of data

CO 3: Learners will be able to predict the structure of proteins

CO 4: Students will be able to use various methods of phylogenetic analysis and their applications

Paper: BI-525 Structural Biology and Bioinformatics

CO 1: Students will be well aware of the detailed structure of DNA, Proteins and other biomolecules.

CO 2: Learners will know about various aspects of protein structure classification

CO 3:Students will be aware of the principle and methods used formodelling 2D and 3D structure of proteins

Paper: BI-526 Practical's Based on Advance Programming in C++ and Visual Basic

CO 1: Knowledge of C++ programming basics

CO 2: Learners will know about control structures and logical thinking

CO 3: They will understand concept of objects, classes, inheritance etc.

CO 4: They will be able to design forms and in Visual Basic

CO 5: Communicating with databases using Visual Basic

Paper: BI-527 Practical's Based on Structural Biology and Bioinformatics

CO 1: Students will be able to perform protein-protein, protein-ligand docking

CO 2: Students will be skilled in modeling 3D structure of proteins

CO 3: Students will be able to draw and visualise biomolecules and other chemicals

CO 3: Students will be able to analyze 3D structure of proteins including Energy Minimization, Molecular Dynamics simulation

Semester-III

Paper: BI-631 Genomics and Proteomics

CO 1: Knowledge of Genomics and proteomics data of various plants and organisms will be imparted to the learners

CO 2: Students will know various techniques to sequence the genome and proteome of various organisms

CO 3: Student will be familiar with the techniques for **a**nalysis of genomics and proteomics data

Paper: BI-632 Advanced Algorithms for Computational Biology

CO 1: Students will know about the concept of computer algorithms

CO 2: Awareness will be created among students about various algorithms including divide and rule, genetic algorithms, machine learning

CO3: Students will be able to apply these algorithms to analyze biological data

Paper: BI-633 System Biology and Metabolic Pathway Engg.

CO 1: Students will know about modeling cellular networks

CO 2: Students will understand protein-protein interactions and various methods to model them

CO 3: Students will be made aware of various metabolic pathways

CO 4: Students will be acquainted with different protein-protein interaction and pathway databases

Paper: BI-634 Molecular Modeling and Computer Aided Drug Design

CO 1: Students will learn the basic concepts of molecular modeling

CO 2: Students will learn about representing chemical information on computers and concept of force field

CO 3: Students will know about the concept and methods of energy minimization

CO 4: Process of drug design & development will be demonstrated to the students

CO 5: Students will learn about the use computers to study molecular interactions (e.g. Drug-Target interaction)

Paper: BI-635 Programming in PERL for Bioinformatics

CO 1: Students will know the importance of PERL in handling biological data

CO 2: Students will be able to read large data sets from files

CO 3: Learners will be familiar with pattern matching using regular expression functions

CO 4: Learners will be sensitized towards the techniques of analyzing sequence data using PERL programming

CO 5: Parsing of data with specific examples will be demonstrated to students to make them aware of the concept of parsing

CO 6: Bioperl objects and utilities will be made familiar to the students

Paper: BI-636 Practical's Based on System Biology and Metabolic Pathway Engineering and Molecular Modeling and Computer Aided Drug Designs

CO 1: Learners will be able to perform Molecular Docking

CO 2: Learners will be able to perform Molecular Dynamics Simulations

CO 3: Students will be skilled to constructing protein-protein interaction networks

CO 4: Students will be efficient in searching metabolic pathway databases

Paper: Practical's based on Genomics and Proteomics and Programming in PERL for Bioinformatics

CO 1: Learners will be able to write and run PERL programs

CO 2: Students will get acquainted with various control statements

CO 3: Students will be able to write programs for analysis of biological data

C O 4: Students will be able to analyze genomic and proteomic data

Seminar on Emerging Trends in Bioinformatics

CO 1: Students will be updated with latest research trends

CO 2: Students will learn to present their ideas in form of a PowerPoint presentation

Paper: Industrial / Institutional Visit

CO 1: Students will get opportunity to interact with scientists working on different aspects of Bioinformatics

Semester-IV

Paper: BI-640 Major Research Project

CO 1: Students will learn how decide a research area

CO 2: Students will be able to formulate and design a research problem

CO 3: Student will know to analyze and interpret results

Department of Biotechnology

Name of Programme: B.Sc. Biotechnology

Course outcomes

Semester-I

Paper: BT-8 General Microbiology-A

CO 1: The students will be acquainted with the basic concept of Microbiology and its relevance in daily life.

CO 2: Learners will be able to understand the basic techniques in Microbiology such as bright field, darkfield, phase contrast, fluorescence & immunofluorescence and electron microscopy.

CO 3: The students will learn about the general features of different microorganisms like bacteria, viruses, fungi etc.

CO 4: Students will be able to understand the various biochemical and metabolic characteristics of microorganism.

CO 5: Students will learn the different methods of bacterial classification.

Paper: BT-9Biochemistry A

CO 1: The students will learn the basic concepts of biochemistry and its role in plant and animal life.

CO 2: Further, they will be able to understand the importance of bio molecules such as carbohydrates in daily life.

CO 3: Students will be able to learn various procedures for determining sugars, carbohydrates, etc in various samples.

CO 4: Awareness will be created among students to study the importance of water in life.

Paper: BT-5Computer & Bioinformatics Fundamentals

CO 1: The learners will be acquainted with the basic concept of computers and Ms-Office: word, Excel, Power-point

CO 2: Students will explore various Databases at NCBI, EMBL, DDBJ.

CO 3: Students will be able to understand the GenBank Format, FASTA format etc

CO 4: Students will learn the various sequence alignment tools in bioinformatics.

Semester-II

Paper: BT-8General Microbiology-B

CO 1: The students will learn about the process of microbial growth.

CO 2: Students will be acquainted with the various methods used for cultivation of different bacteria and life cycle of various plant and animal viruses.

CO 3: The learners will be able to understand the various diseases and their mechanism caused by microorganisms.

CO4: Students will learn about the different characteristics and mechanism of various fungal diseases, their mechanism of action and diagnosis.

Paper: BT-9Biochemistry- B

CO 1: Students will be educated about the importance of proteins and peptides; their types and chemistry.

CO 2: Students will be acquainted about basic types of lipids: their types and study various properties of lipids and waxes.

CO 3: Students will be provided with knowledge to understand the different types of vitamins and their role in human health and their IU recommended doses and deficiency diseases associated with vitamins.

CO 4: The students will be made aware about how to perform various tests for detection of proteins, lipids etc.

Semester-III

Paper: BT-3Biochemistry – III

CO 1: The learners will understand the basic concept of metabolism.

CO 2: Students will learn about the various metabolic pathways of carbohydrate metabolism and their regulation.

CO 3: Students will be able to understand the concept of electron transport chain and oxidative phosphorylation.

CO 4: Students will learn and perform different processes used for the Separation of lipids using various chromatography techniques.

Paper: BT-7 Agro and Industrial Applications of Microbes-A

CO 1: Students will learn about the basic concept of agro industrial microbiology.

CO 2: Students will be able to learn about the different approaches used for genetic manipulations of microorganisms.

CO 3: Students will be able to identify various industrial important microbes, its isolation, screening, selection and identification.

CO 4: Students will understand the concept of Microbial association and their interaction with plants and role of microbes in sustainable agriculture.

Paper: BT-4Cell biology –A

CO 1: Students will learn about the unit concept of life that is cell and its biology.

CO 2: The students will be made aware of the basic cell organelle such as golgi complex mitochondria nucleus etc

CO 3: Awareness will be created among students about the microscopic structure of cell organelles and basic concepts of dichotomy.

CO 4: The students will be made aware of various methods of cell division I.e. mitosis and meiosis.

Paper:BT-6Genetics

CO 1: Students will be able to understand the concept of chromosomes and their structure.

CO 2: Learners will be able to study the Mendel's Laws of Inheritance and interaction of genes.

CO 3: Students will also learn about the concept and significance of Linkage and crossing over.

CO4 : Awareness will be created among students to learn about basic microbial genetics.

Paper: BT-5Basic concepts in Immunology – A

CO 1: Students will explore the study of Immune system.

CO 2: The learners will be acquainted with the various cells and organs of immune system.

CO3: The students will learn the concept of immunogenicity along with action of various immunoglobulins.

CO 4: The students will get detailed knowledge about MHC molecule along with cell receptors

Semester-IV

Paper: BT-3Biochemistry – IV

CO 1: Students will understand the metabolic pathways of lipid catabolism and its regulation.

CO 2: Students will be able to learn about the concept of lipid anabolism.

CO 3: Students will understand various metabolic pathways of amino acid metabolism along with its regulation.

CO 4: Students will understand the detailed concept of nucleic acid metabolism.

Paper: BT-5Immunotechnology

CO 1: The students will study the concept of T-cell subsets and surface markers along with the concept of monoclonal antibodies.

CO 2: The students will become aware about various immunological techniques like Immunodiffusion, ELISA, RIA..

CO 3: The students will be able to understand immunopathological consequences of parasitic infections, immune invasion and how to protect our immune system from such pathogenic infections.

CO 4: Learners will be able to understand the concept of immunization and recombinant Vaccines and latest discoveries related to recombinant vaccines.

Paper code: BT- 6 Molecular Biology

CO 1: The students will learn the Molecular basis of life: DNA and its replication.

CO 2: The learners will be able to understand the concept of DNA recombination molecular mechanisms.

CO 3: Students will learn the Process of transcription and translation in organisms.

Paper: BT- 8 Enzymology

CO 1: Detailed knowledge will be imparted to the students regarding the nomenclature, classification and characteristics of enzymes.

CO 2: Concept clearance will be provided about the mechanism of enzyme action and functional group identification at active site.

CO3: They will be provided knowledge about enzyme kinetics.

CO 4: Students will be able to learn enzyme inhibition, effect of pH and temperature on rate of enzyme action.

Paper: BT-7 Agro and Industrial Applications of Microbes-B

CO 1: Students will learn about the general characteristics of industrial and agro industrial microbes and microbes involved in antibiotics production.

CO 2: Students will learn about the various mechanisms involved in the production of different microbial products like wine, beer etc.

CO 3: Students willprovided the knowledge related to microbial process in agro biotechnology like BT crops etc

CO 4: Students will be able to learn about the different microbial process in industrial biotechnology.

Paper: BT-4 Cell biology –B

CO 1: Students will be made aware about the different cell organelles like SER,RER etc.

CO 2: The students will be made aware about the basic functions of the cell organelle .

CO 3: Awareness will be created among students about the cell division and its mechanism.

CO 4: The learners will be able to study various methods of cell differentiation .

Semester - V

Paper: BT-5 Bioprocess Engineering- A

CO 1: Students will learn about the fundamental principle of bioprocess engineering and different types of microbial cultures.

CO 2: The learners will be acquainted with the various mechanisms of microbial growth kinetics.

CO3: The students will learn the process of external and internal feed basic system of various microbial creatures.

CO 4: Students will provide the knowledge related to the importance of sterilization in bioprocess Engineering.

Paper: BT-3 Animal Tissue Culture

CO 1: The students will be made aware of the basic concepts of animal biotechnology, animal cell culturing.

CO 2: Awareness will be created among students regarding various cell lines and there characteristics.

CO 3: Students will be able to perform isolation of DNA and RNA from animal tissues and to analyze the DNA by electrophoresis and spectrophtometrically.

CO 4: The students will be made aware about how to analyze the various types of stem cells and their role in differentiation and organ culturing.

Paper: BT-1 rDNA Technology-A

CO 1: Concept clearance about the molecular techniques like isolation of DNA from bacteria and then analysing it by using restriction enzymes and spectroscopy will be provided to the students.

CO 2: The students will be made aware of various types of vectors such as lambda, plasmid etc.

CO 3: They will be able to learn various techniques used for transformation like electron gun, micro injection etc

CO 4: Students willalso explore various types of DNA sequencing techniques used in modern era.

Paper: BT-4 Patent Laws in Biotechnology

CO 1: Conceptual knowledge will be enhanced regarding the Indian patent system, its history, further amendments objectives and along with patenting agencies will be enlisted.

CO 2: Students will be able to understand the format of the writing the patent and its specifications. Further, added guidelines include patentee rights, post grant opposition, infringement, etc.

CO3: Students will be acquainted regarding the patenting system in biotechnology and articles related to it.

CO4: Awareness will be created about the risks associated with the release of genetically modified microorganisms, ethical issues in biotechnology, ecological impact and legal aspects of patenting.

Paper: BT-6 Biophysical and Biochemical techniques –A

CO 1: The students will learn about centrifugation in detail which includes its principle, theory, types and application.

CO 2: The students will be acquainted with chromatographic technique; its principle, types and application.

CO3: The learner will be provided knowledge regarding the advanced chromatography techniques like HPLC,GLC.

CO4: Detailed knowledge will be provided about spectroscopy, and instrumentation of NMR and ESR will be taught.

Semester-VI

Paper: BT-5 Bioprocess Engineering-B

CO 1: The students will be acquainted with the various features of different bioreactors and its kinetics.

CO 2: The students will learn about the various control and measurement equipment of bioreactors.

CO 3: The students will learn about the basic concept of down streaming processing.

CO 4: Students will be able to understand the various methods of ETP and fermentation economics.

Paper: BT-3 Animal Biotechnology

CO 1: The students will be made aware of the various types of cell lines and their characteristics.

CO 2: Students will learn the various types of methods for cell transformation.

CO 3: The students will be able to understand the concept of PCR and types of PCR. Further, they wills get to know regarding animal genetic engineering and production of various types of animal products.

CO 4: The students will be further made to learn isolation of RNA from blood, southern blotting etc.

Paper: BT-6 Biophysical and Biochemical techniques –B

CO 1: The students will be provided the knowledge of mass spectroscopy, MALDI TOF and MALDI Q, its application and further fluorescence microscopy will be discussed.

CO 2: Knowledge of students will be enhanced regarding electrophoresis, its types, principle, theory and applications

CO3: The students will be provided knowledge regarding 2D gel and capillary electrophoresis and its applications.

CO4: The learners will taught the radio isotopic techniques which includes concept of radioisotopy, theory and safety rules for radio isotopic studies.

Paper: BT-4 Intellectual Property Rights and Entrepreneurship

CO 1: The students will be imparted the knowledge of IPR; its history, benefits, problems and management.

CO 2: Students will be provided knowledge regarding World Trade Organization, its principle, objective, structure, function s and its related provisions, GATT.

CO3: Learners will be acquainted with TRIMs, TRIPs; its agreement, principle and objective, Berne convention, Budapest Treaty, WIPO.

CO4: The students will be given the knowledge regarding entrepreneurship; its characteristics.

Paper: BT-1 rDNA Technology-B

CO 1: Awareness will be created among students about study of various types of vectors and their characteristics (BAC, YAC, TAC).

CO 2: The students will be made aware about the concept of genomic cloning and various types of lambda vectors used for the same.

CO 3: Students will be able to learn about various types of sequencing methods such as max Gilbert method, Sanger's method.

CO4 - Students will be able to learn the preparation of competent cells and transform the same and learn gel electrophoresis etc.

Department of Multi-Media

Name of the Programme: Bachelor of Design (Multimedia)

Course Outcomes

Semester-I

Paper: Drawing & Colour-I

Students will learn about:

CO 1: concept of Color (Water, Postal and Oil)

CO 2: view Point (2D Views and 3D Views)

CO 3: basic knowledge of drawing concept

CO 4: Color Wheel, Tint Shade etc.

Paper: Introduction to 3D-I

Students will learn about:

CO 1: concept of 3D

CO 2: basic of 3D Modeling

CO 3: introduction of MAYA software

CO 4: Nubs, Supline and Polygon Modeling

Paper: Workshop–I

Students will learn about:

CO 1: practical with clay modeling, POP, Thermo coal, oil and acrylic colors.

CO 2: create art with waste materials.

Paper: Elements of Art and Multimedia

Students will learn about:

CO 1: art and its elements.

CO 2: various elements: point, line, content, form, texture, color.

CO 3: what is multimedia.

CO 4: elements of multimedia.

CO 5: applications of multimedia.

Semester-II:

Paper: Drawing & Colour–II

Students will be able to:

CO 1: study human skeleton, figure (Male and Female).

CO 2: Understand lighting and shading.

CO 3: get knowledge about sketches with brush, pen and ink.

CO 4: know the various color schemes.

Paper: Introduction to 3D–II

Students will learn about:

CO 1: lighting and texturing.

CO 2: 3D animation process.

Paper: Theory of Media (Print Media & Scriptwriting)

Students will learn about:

CO 1: print media.

CO 2: types of modern printing process.

CO 3: types of Advertisements.

CO 4: concepts of Script Writing.

Paper: Workshop–II (Photography & Adobe Lightroom)

Students will learn about:

CO 1: working of Cameras.

CO 2: basics of photography.

CO 3: use of Adobe light room.

CO 4: developing pictures.

Paper: Adobe Illustrator * (Software)

Students will learn about:

CO 1: creating vector graphics.

CO 2: interface of illustrator.

CO 3: production with illustrator.

Semester-III:

Paper: Film Appreciation–I

Students will learn about:

CO 1: introduction to films.

CO 2: introduction to indian cinema.

CO 3: history of indian cinema.

CO 4: types of films.

Paper: Animation in 3D

Students will learn about:

CO 1: principles of animation.

CO 2: character modelling.

CO 3: rigging.

CO 4: rendering.

Paper: Adobe Photoshop

Students will learn about:

CO 1: raster graphics.

CO 2: principles and elements of graphic.

CO 3: working of bitmap graphics.

CO 4: use of all tools in photoshop.

Paper: HTML 5

Students will learn about:

CO 1: understanding web pages.

CO 2: basic HTML structures and tags.

CO 3: understanding CSS 3.

CO 4: developing web pages with style sheets.

Paper: Corel Draw

Students will learn about:

CO 1: working with vector graphics.

CO 2: use of tools in CorelDraw.

CO 3: creating advertisements, pamphlets, posters, calendar etc.

Paper: Project–I

Students will learn about:

CO 1: creating Project with use of HTML, CSS, CorelDraw, Photoshop and MAYA Software.

Semester-IV

Paper: Flash

Students will learn about:

CO 1: animation fundamentals.
CO 2: 2D animation process.
CO 3: character designing.
CO 4: use of action script.
CO 5: animation project.

Paper: PHP

Students will learn:

CO 1: introduction of PHP.
CO 2: web forms.
CO 3: database connectivity.
CO 4: redirecting web pages.

Paper: Dream Weaver

Students will learn:

CO 1: introduction to dream weaver.
CO 2: website management.
CO 3: development of interactive web pages.
CO 4: website project.

Paper: Film Appreciation–II

Students will learn about:

CO 1: production processes
CO 2: film making
CO 3: understanding film censorship

Paper: Project– II

Students will learn about:

CO 1: creating project with use of Dreamweaver, PHP, Flash and character designing.

Semester-V

Paper: Adobe Premiere Pro

Students will learn about:

CO 1: introduction to video editing.
CO 2: video capturing.
CO 3: working with audio.
CO 4: video project.

Paper: Adobe After Effects

Students will learn:

CO 1: introduction to after effects.
CO 2: working with video effects.
CO 3: creating visual effects and motion graphics.

Paper: Workshop–III

Students will learn about:

CO 1: pre-production, production and post-production.

CO 2: working with camera and lenses.
CO 3: recording.

Paper: Sound Editing and Recording

Students will learn about:
CO 1: working with audio.
CO 2: audio editing with SoundFordge orStienberg Cu-Base.

Paper: Technical Theory of Media – II (ElectronicMedia)

Students will learn about:
CO 1: working of radio, TV, print and electronic media.

Paper: Project–III

Students will learn about:
CO 1: creating project with use of SoundFordge, After Effects and Premier Pro.

Semester-VI

Paper: 3D Studio Max

Students will learn about:
CO 1: introduction of 3D Max.
CO 2: 3D Modeling in Max.
CO 3: Texturing, Lighting, Rigging, Animation and Rendering.
CO 4: 3D Project.

Paper: Introduction to 3D

Students will learn about:
CO 1: principles of animation.
CO 2: 3D Formations.
CO 3: Techniques in 3D.
CO 4: Theory of 3D Concepts.

Paper: Drawing & Illustration

Students will learn about:
CO 1: illustrations.
CO 2: shading.
CO 3: prospective (2 Point and 3 Point).

Paper: Workshop–IV: (Stop Motion)

Students will learn about:
CO 1: camera capturing techniques.
CO 2: frame by frame shooting.
CO 3: Render

Paper: Blender

Students will learn about:
CO 1: introduction to Blender
CO 2: 3D Modeling with Blender
CO 3: project in Blender

Paper: Project – IV

CO 1:Students will learn about creating project with use of Blender, Stop Motion and 3D Studio Max

Semester-VII

Paper: Maya

CO 1:Students will learn about 3D Project in Maya Software

Paper: Mudbox

CO 1:Students will learn about 3D Sculpturing

Paper: Project–V

CO 1:Students will learn about creating project with use of Maya Software and Mudbox

Semester-VIII

Paper: 3D and Animation in Photoshop

Students will learn about:

CO 1: creating 3D with Photoshop.

CO 2: Third Party Plugins for Graphics.

Paper: Motion Graphics for Commercials

CO 1: Students will learn about theory of Commercials and Motion Graphics

Paper: 3D Human Modelling and Animation

Students will learn about:

CO 1: Character Modeling

CO 2: Rotoscoping

CO 3: 3D Walk Cycle

Paper: Training

CO 1: Students will learn about Professional Training of Minimum 10 – 12 weeks on above Learned Technologies

Name of the Programme: B.Voc (Web Technology&Multimedia)

Course Outcomes

Semester-I

Paper: 101 Computer fundamentals and MS Office

Students will learn about:

CO 1: introduction to computer.

CO 2: internet fundamentals.

CO 3: components of Multimedia

CO 4: MS Office

Paper: 102 Markup Languages (HTML, HTML5, and CSS)

Students will learn about:

CO 1: introduction to web pages.

CO2: creation of web pages with tags.

CO 3: style sheets.

Paper: 103 Programming Fundamentals (C & C++)

Students will learn about:

CO 1: fundamentals of program development.

CO 2: introduction to C and C++

CO 3: object oriented programming concepts.

Paper: 104 Adobe Photoshop

Students will learn about:

CO 1: introduction to Photoshop Tools.

CO 2: understanding Bitmap Graphics.

CO 3: creating graphics with Photoshop.

Semester-II

Paper: 107 Web Programming with PHP-I

Students will learn about:

CO 1: introduction to PHP.

CO 2: web forms.
CO 3: database connectivity.
CO 4: redirecting web pages.

Paper: 108 Design & Layout (Dreamweaver)

Students will learn about:
CO 1: introduction to Dream Weaver.
CO 2: website management.
CO 3: development of interactive web pages.
CO 4: website project.

Paper: 109 Analysis and Design for Web Applications

Students will learn about:
CO 1: introduction to System Development Principals.
CO 2: business principals.
CO 3: system analyst.
CO 4: ecommerce business.

Paper: 110 Java Script-I

Students will learn about:
CO 1: introduction to Java Script.
CO 2: logic development with scripts.
CO 3: redirecting and Alert Boxes.

Semester-III

Paper: 301 Java Script II

Students will learn about:
CO 1: advanced JavaScript concepts.
CO 2: logic development with scripts.
CO 3: redirecting and Alert Boxes.

Paper: 302 Operating System

Students will learn about:
CO 1: introduction to Operating System.
CO 2: working of Operating System.
CO 3: paging and segmentation.
CO 4: DOS commands.

Paper: 303 Java Programming

Students will learn about:
CO 1: introduction to Java.
CO 2: object oriented programming with Java.
CO 3: exceptional handling.

Paper: 304 Word press

Students will learn about:
CO 1: introduction to wordpress.
CO 2: creating posts and pages.
CO 3: Content Management.
CO 4: security and blogging.

Semester-IV

Paper: 401 Database System

Students will learn about:
CO 1: introduction to Databases.

CO 2: data Models.
CO 3: queries.
CO 4: SQL and SQL security.

Paper: 402 Software Engineering

Students will learn about:
CO 1: introduction to Software Engineering.
CO 2: software designing and testing.
CO 3: software requirement specification concepts.

Paper: 403 PHP-II

Students will learn about:
CO 1: developing logics with PHP.
CO 2: advanced web forms.
CO 3: database connectivity.
CO 4: database redirecting.

Paper: 404 Adobe Flash

Students will learn about:
CO 1: animation fundamentals.
CO 2: 2D Animation
CO 3: character designing.
CO 4: use of action script.
CO 5: animation project.

Semester-V

Paper: 501 Software Re-engineering

Students will learn about:
CO 1: introduction to Soft Re-Engineering.
CO 2: Reverse Engineering.
CO 3: Refactoring and Reuse of Software.

Paper: 502 Software Project Management and Business Solution

Students will learn about:
CO 1: introduction to Software Project Management.
CO 2: project evaluation and planning.
CO 3: control and monitoring.
CO 4: business solutions.

Paper: 503 ASP.net with C#

Students will learn about:
CO 1: ASP .Net Basics.
CO 2: validation control.
CO 3: list and view controls.
CO 4: database connectivity.

Paper: 504 Software Testing & Quality Assurance

Students will learn about:
CO 1: introduction to software testing.
CO 2: quality assurance concepts.
CO 3: Oops testing concepts.
CO 4: testing processes.

Paper: 505 Lab: Software Testing (Case Tools)

Students will learn about:

CO 1: introduction to software development diagrams.
CO 2: development of DFDs and ER diagrams.

Paper: 506 Adobe Muse

Students will learn about:
CO 1: introduction to Adobe Muse.
CO 2: designing website without coding.
CO 3: planning, designing and publishing of website.

Semester-VI

Paper: 601 Major Project (Industrial Training and Project in Current software Technologies)

Students will learn about project development for 6 months using the above learned technolgies.

Name of the Programme: M.Voc. (Web Technology and Multimedia)

Course outcomes

Semester-I

Paper: 701 Advanced Graphic Designing

Students will learn about:
CO 1: introduction to graphics.
CO 2: advance concept of designing.
CO 3: designing of pamphlets, brochures etc.

Paper: 702 Image Capturing & Processing

Students will learn about:
CO 1: camera angles, lenses.
CO 2: pre and post processing of images captured.
CO 3: adding light and effects.

Paper: 703 2D Animation & Character Design

Students will learn about:
CO 1: character designing.
CO 2: animation with 2D models.
CO 3: walk cycle of 2D models.

Paper-:704 Scripting Language –1

Students will learn about:
CO 1: introduction to script.
CO 2: basics of Redirecting and Logic Developments.
CO 3: web forms.

Paper: 705 Digital Media Production

Students will learn about:
CO 1: media production laws.
CO 2: principles of digital production.
CO 3: pre and post production concepts.

Semester-II

Paper-: 801 Video Editing Techniques

Students will learn about:
CO 1: introduction to video editing.
CO 2: introduction to timeline, title and audios.
CO 3: video Advertisements, montage, short films assignment

Paper: 802 Visual Effects

Students will learn about:

CO 1: introduction to after effects.

CO 2: visual effects description.

CO 3: paint effects.

CO 4: conversion of 2D to 3D images.

Paper: 803 Stop Motion

Students will learn about:

CO 1: camera capturing techniques.

CO 2: frame by frame shooting.

CO 3: Render

Paper: 804 Scripting Language – 2

Students will learn about:

CO 1: concepts of Arrays.

CO 2: Cookies and Sessions.

CO 3: Errors and Debugging.

Paper: 805 Digital Media Laws and Ethics

Students will learn about:

CO 1: legal concepts of video production.

CO 2: cyber laws.

CO 3: media ethics and issues.

Semester-III

Paper: 901 3d Modeling& Texturing

Students will learn about:

CO 1: concept of 3D.

CO 2: Primitives and Splines of 3D.

CO 3: Polygon Modeling.

CO 4: Mapping Coordinates.

Paper: 902 Lighting & Rendering

Students will learn about:

CO 1: concept of lighting.

CO 2: 3 point lightining.

CO 3: Rendering Effects.

Paper: 903 Motion Graphics

Students will learn about:

CO 1: 2D slideshow and 3D layer animation.

CO 2: Rotoscoping and Tracking of Footage.

CO 3: Third Party Plugins.

Paper: 904 Asp. Net

Students will learn about:

CO 1: ASP .Net Basics

CO 2: C# Controls

CO 3: validation control.

CO 4: list and view controls.

CO 5: database connectivity.

Paper: 905 Workplace Health and Safety

Students will learn about:

CO 1: importance of health and safety at workplace.
CO 2: fire safety in the workplace.
CO 3: government norms and regulations.

Semester-IV:

Paper: 1001 Advanced 3d Modeling& Texturing

Students will learn about:

CO 1: introduction to Maya.
CO 2: 3D human modelling.
CO 3: character modelling.
CO 4: Rotoscoping.
CO 5: 3D walk cycle

Paper: 1002 Digital Painting

Students will learn about:

CO 1: painting and blending techniques.
CO 2: Rotoscoping
CO 3: wire removal techniques.

Paper:1003DigitalPortfolio

CO 1: Students will learn about development of video resume using the above learned techniques

Paper: 1004 Internship

CO 1: Students will learn about internship in one of the above technologies form a reputed company

Department of Fashion Designing

Name of Programme: B.Sc. Fashion Designing

Course Outcomes

Semester –I

Paper I: Basic of Design and Illustration

CO 1: Students will able to understand design fundamental, elements & principles of design.
CO 2: Students will able to sketch figure and drawing.
CO 3: Students will learn Fashion Design concepts and colour theories.

Paper II: Concept of Fashion

CO 1: To identify and discuss concepts related to the historical background of fashion
CO 2: To assess, purpose and apply various techniques related to drafting, draping.

Paper III: Basics of Sewing-I

CO 1: Students will able to construct various sleeves e.g. Puff, raglan, kimono etc.
CO 2: Students will able to make Yokes with fullness and without fullness
CO 3: Students will able to understand Construction of collars – Flat and rolled, peterpan collar

Paper IV: Basics of Computers

CO 1: Students will able to understand the basics knowledge of computers.
CO 2: Students will learn the difference between an operating system and an application program.

Paper V: Fiber to Fabric

CO 1: Students will able to learn and identify different types of Fibres and yarns.
CO 2: Students will Perform Microscopic appearance, burning test and solubility test on different fibres to know the fabric type.

Semester-II

Paper I: Traditional Textiles

CO 1: Students will able to differentiate & learn types of carpets, coloured woven & printed textiles of India.

CO 2: To learn various effects, texture and basics of art and design world.

Paper II: Fabric Construction

CO 1: Students will learn various techniques of weaving, knitting, felting & bonding.

CO 2: Students will also learn different types of decorative fabric construction techniques.

Paper IV: Basics of Computers

CO 1: Students will be able to understand the Professional presentation formations, different views of PowerPoint & animation effects.

CO 2: Student will learn about basic Concepts of PowerPoint, CorelDraw & Photoshop.

Semester-III

Paper I: Fashion Design and Illustration

CO 1: Student will learn the process to work from concept to finished products, including knowledge of paints, surfaces, two dimensional and three dimensional images.

CO 2: Students will learn the various design details and their use in fashion/textile

CO 3: Students will be able to gain knowledge of figure sketching &drawing.

Paper II: Colour Concepts & Coloration

CO 1: Students will gain knowledge of colour&colour schemes.

CO 2: Students will learn about different types of printing & dyeing techniques on fabrics.

Paper III: Pattern Making & Garment Construction

CO 1: Ability to make commercial paper patterns & make style reading sheets.

CO 2: Students will able to make – Salwar suit, blouse, Petticoat.

Paper IV: Needle Craft

CO 1: It enables the students to learn methods of surface ornamentation on fabric using different techniques to produce value added products.

CO 2: Students will learn to develop practical skills in needle craft techniques

Paper V: Knitting Technology

CO 1: To describe types, characteristics & structure of knitted products

CO 2: Students will gain the knowledge of knitted garments.

Semester- IV

Paper I: Fashion Design and Illustration (CAD)

CO 1: Students will learn fashion design concept on computer.

CO 2: Students will gain working knowledge of Corel draw software and will acquires hands on knowledge on details and croquies on computer.

Paper II: History of Costumes

CO 1: Students will learn to Sketch costumes for men and women – Indus valley civilization, British period,mauryan, Mughal period etc.

CO 2: Students will have knowledge of historic period

Paper III: Garment Construction & Draping

CO 1: Students will learn concept of advance pattern making and different garment construction techniques.

CO 2: Commercial pattern making techniques helps students to work with industry.

Paper IV: Fashion Illustration & Appreciation

CO 1: Student will learn to design theme based project.

CO 2: Students will learn how to select theme and to design theme based collection on any type of theme.

Paper V: Pattern and Marker Making on Computer

CO 1: This course aids in learning of patterns and layouts according to body measurements.

CO 2: Students will able to learn skills of marker plan, pattern making & drawing using computers.

Semester-V

Paper I: Fashion Illustration and Appreciation

CO 1: The highly effective and superior study program brings in opportunity to improve creative skills by collage making on different theme based collections.

CO 2: Students will illustrate garments by taking inspiration from historical period, monuments, traditional fabric, embroideries and many more themes.

Paper II: Draping, Pattern Making and Construction

CO 1: Students will able to drape stylized skirts, necklines, bodice &torso.

CO 2: Concept of draping and stitching will be utilized in making of garments for clients.

Paper III: CAD (Computer Aided Design)

CO 1: Software helps the students to explore the design world, as maximum work is done on software in design world.

CO 2: Software will help students to learn the process of creating technical drawing with the use of computer aided designing.

Paper IV: Internship for Design and Construction of Garments

CO 1: Designers often work closely with garment technologists and sample machinists. The role could also involve liaising with manufacturers (often based overseas) to make sure designs are reproduced accurately.

CO 2: Students will able to learn industrial working methods.

CO 3: It is important for students to interpret how management plays an important role in every field.

Paper V: Leather Technology

CO 1: Students will learn about Packaging of product –importance and various material used for packaging.

CO 2: To gain the knowledge of leather manufacturing process.

Semester-VI

Paper I: Fashion Illustration and Appreciation

CO 1: It provides framework for students to understand the basic concept of illustration.

CO 2: It helps students to use different types of color medium in illustration.

Paper II: Pattern Making and Construction

CO 1: This course helps students to incorporate different types of female garments according to theme based pattern.

Paper III: Computer Aided Design

CO 1: Students will able to understand the basic concepts and designing on corel draw & Adobe Photoshop.

Paper IV: Survey and Project Report

CO 1: Ability to develop a style that is distinctive consistent & new ability to manage the process of emerging designs through creativity and preparing graduates to work with fashion industry.

CO 2: After completion of the project students will be able to work on different types of field project.

Paper V: Fashion industry, Marketing and Management

CO 1: After studying this course the students should be able to apply various marketing & management aspects to their projects and understand marketing techniques to run any business effectively.

CO 2: Students will gain the knowledge of Career & job roles in fashion industry.

CO 3: Students will learn how management plays an important role in every field of fashion.

Name of Programme: B.Voc Fashion Technology

Course Outcomes

Semester-I

Paper IV: Sewing Techniques-I

CO 1: Students will be able to learn the basic sampling of plackets, pockets, darts, seams and hand stitches etc.

Paper V: Fashion Art & Design Development

CO 1: It helps students adopt a better understanding of the people around them and learn to build stronger relationships.

CO 2: Learning the Design and illustration fosters creativity of the student.

CO 3: Design is inherently creative.

Paper VI: Pattern Making & Construction-I

CO 1: Student will be able to make patterns and do garment construction of the following: Basic block, child panty, bloomer, party wear frock, jump suit

CO 2: Student will able to make patterns and layouts according to body measurement of kids and produce the final apparel product accordingly.

Paper VII: CAD-I

CO 1: Students will learn about basics of deigning on computer.

CO 2: Student work on design projects which help in increased productivity and efficiency of work with the help of CorelDraw.

Paper VIII: Concept of Fashion & Textiles-I.

CO 1: Students will understand & basic concepts of fashion and textiles.

CO 2: Students will learn about various technical aspects of printing and finishing of textile products in the industry.

Semester- II

Paper IV: Sewing Techniques-II

CO 1: Students will learn to make samples of sleeves, yokes and collars.

CO 2: Students will learnt to implement above learnt techniques through drafting, layout and construction of gathered frock.

Paper V: Fashion Illustration & Design Development Skill

CO 1: Students will learn different types of prints and textures related to kids wear.

CO 2: Students will learn about figure drawings of kids and babies.

Paper VI: Portfolio Development (Kids)

CO 1: Students will be able to communicate effectively with customers to design their garments as per their requirements as well as according to the latest trend.

CO 2: Students will learn theme based collection including specification sheet, mood board, story board and many more.

Paper VII: CAD-II

CO 1: Students will able to understand the basic Concepts of Corel Draw & their tools.

CO 2: Students will learn to design & render fashion details.

Paper VIII: Concept of Fashion & Textiles-II

CO 1: Student will learn about concepts related to fashion and textiles.

CO 2: This course will impart knowledge about decorative way of constructing fabrics.

Semester-V

Paper III: Computer Aided Designing (CAD)-II

CO 1: Students will learn to design various fashion details by using CorelDraw and Adobe Photoshop.

Paper IV: Garment Construction and Care Skill

CO 1: After studying this course the students will understand aesthetics in dress with suitable selection of clothes and planning of wardrobe.

CO 2: To be able to learn care and storage of garment and hence plan the wardrobe.

Paper V: Portfolio Skill

CO 1: Learn about developing the designs whatever is planned or thought, an implementation to the thinking is given.

CO 2: Various design techniques & styles are explored.

Paper VI: Fashion Industry, Marketing and Management

CO 1: After studying this course the student should be able to define about various marketing aspects of his/her designer products

CO 2: It will be impart the practical knowledge of fashion market, environment, planning, research, concept of exhibition and fashion shoe.

CO 3: The students will be able to learn the concept of retailing.

Semester-VI

Paper III: Computer Aided Designing (CAD)-III

CO 1: CAD allows for the easier development of products It also allows for greater modeling and even provides a basis for virtual networking. In the designing world, CAD is extremely important and widely used to design and develop products to be used by consumers.

CO 2: After studying this course the students will be able to design outfits for casual wear, sportswear, office wear, nightwear, party wear and ethnic wear.

Paper IV: Pattern making and Garment Construction-II

CO 1: Students will learn to make Patterns and stitch garments like skirts and bifurcated garments.

Paper V: Quality Control

CO 1: Students learn about quality and its assurance parameters.

CO 2: Students learn about various fabric defects and garment inspection techniques.

CO 3: The courses help the students to understanding packaging and its importance.

Paper VI: Fashion Merchandising

CO 1: Students will able to understand the knowledge of different sectors of garment industry including sampling, designing, production & marketing.

CO 2: To impart the knowledge of trend prediction, colour& sales forecasting.

Name of Programme: M.Sc.(Fashion Designing & Merchandising)

Course Outcomes

Semester-I

Paper I: Fashion Illustration

CO 1: After studying this course students will get knowledge & skills to understand fashion illustration concepts and techniques.

CO 2: To learn illustration techniques for various garment details

Paper II: Product Development Workshop

CO 1: Students will able to construct different types of garments for kids.

CO 2: Students will learn developing the designs planned or thought & an implementation to the thinking is given by drafting of different designs.

Paper III: Pattern Making and Grading

CO 1: Students will be able to make sleeve and adult bodice block with metric system

CO 2: Various design technique and styles are explored in drafting of different types of collars, sleeves, skirts. Contoured pattern, dart manipulation & grading.

CO 3: Students learn techniques of up grading and down grading

Paper IV: Computer Aided Fashion Designing

CO 1: This course leads to success in education & employment as computer skills are integral to all areas of study. The students will gain knowledge of Adobe Illustrator and Adobe Photoshop in detail.

CO 2: Students will also learn to design fashion details, accessories, figure drawing of male, female and kids on computers.

CO 3: Knowledge of draping simulation on adobe Photoshop is also gained.

Paper V: History of Indian Costumes

CO 1: Ability to learn art of historical costumes of men and women during Indus valley civilization, British period, Mauryan, Mughals and traditional costumes of India.

CO 2: Students will gain knowledge of– Headgears, footwear, handbags, belts, gloves, earrings, necklaces and bangles which will further helps them in designing

Semester-II

Paper I: Fashion Illustration

CO 1: It will help students to adopt better understanding of basic block figures- Male and female.

CO 2: Students will learn various effects, texture and basics of art and design world to foster creativity of the students.

Paper II: Product Development- Workshop

CO 1: Students will able to apply the knowledge of design process in making collection of female wear.

Paper III: Pattern Development & Draping

CO 1: Students will understand the draping aspects of pattern making.

CO 2: It provides technical knowledge of draping in developing patterns and designing via draping.

Paper IV: Computer Aided Fashion Designing

CO 1: To enables student to learn pattern making and grading software (Rich piece).

CO 2: Student will work on design projects which help to increase productivity and efficiency of work

CO 3: Student learns about the process of creating technical drawing with the use of software.

Paper V: Fashion Merchandising and Marketing

CO 1: Students will able to understand role & responsibility of Fashion Merchandiser.

CO 2: The students learn about material availability in market, fashion forecast , upcoming trends and demands of the consumers.

Paper VI: Traditional Indian Embroideries

CO 1: To beautify garments with embroidery, painting and other decorative materials

CO 2: To know and select appropriate fabric suited to the design of the garment with special reference to colour, texture and design of fabric by visit to any textile museum, craft cluster/craft area.

CO 3: This course will help student to understand documentation of the selected craft.

Semester-III

Paper I: Product Development- Workshop

CO 1: Students will able to construct different types of male garment.

CO 2: This course help students to incorporate drafting casual, traditional, street and formal wear for male garments.

Paper II: Advance Draping

CO 1: Students will be able to apply the knowledge of draping in developing patterns and designs by different designs.

CO 2: The concept of contouring used in draping to make off shoulder and padded evening gowns will also be taught by which students will be able to understand handling fitting problems in designing.

Paper III: Computer Aided Fashion Designing

CO 1: Students will be able to understand designing through use of Adobe Illustrator &Photoshop and hence create fashion & design illustrations.

Paper IV: Surface Ornamentation

CO 1: Students will learn to beautify garments with embroidery, printing, crochet, macramé and other decorative materials

CO 2: Students will be able to incorporate the above in their apparels.

Paper V: Global Costumes

CO 1: To impart knowledge of costumes related to men and women like Babylonian costumes, Persian, Egyptian, Greek, Roman period etc.

CO 2: To gain knowledge of– Headgears, footwear, handbags, belts, gloves, earrings, necklaces and bangles use globally and hence help in deigning according to the world's culture.

Paper VI: Seminar-Indian Traditional Textiles

CO 1: The students will gain knowledge about the traditional textiles of India.

CO 2: Students will be able to apply traditional fabrics of different states of India with emphasis on texture, design and colour to any design of their choice.

Semester-IV

Paper I: Portfolio Development

CO 1: Portfolio development is the important part of designing to expose to students to real work like situation and improve male, female and kids garments with various boards, specs, cost sheets and garment collection.

Paper II: Product Development- Workshop

CO 1: Students will able to construct different types of kid, male or female garments.

CO 2: Students will able to apply the knowledge of design process in making a collection

Paper III: Fashion Merchandising and Retailing

CO 1: Students will able to learn knowledge about retail organizational structure store.

CO 2: Students will learn the role of Customer identification, customer, planning and role of buyer.

Paper IV: Textile Chemistry

CO 1: Students will able to learn and identify different types of Fibres

CO 2: Students will learn to Perform Microscopic appearance, burning test and solubility test for different fibres to know the fabric type.

Paper V: Project Report/Design Project

CO 1: This course helps the students in improving the knowledge and versatility of students and help them in boosting their career by designing through research.

CO 2: It involves application of learned skills in designing to the major project report.

Name of Programme: PG Diploma in Garment Construction &Fashion Designing

Course Outcomes

Semester –I

Paper I: Pattern Making

CO 1: Students will be able to get knowledge of Different aspects of pattern making.

CO 2: Students will able to make Commercial paper patterns of various designs.

Paper II: Fashion Illustration

CO 1: Students will able to understand: Figure sketching.

CO 2: Illustration techniques for various garment details.

Paper III: Garment Designing

CO 1: The students will learn process to work on patterns for various basic deigns, encompasses the development of pattern making skills, fashion details and illustration techniques in designing various outfits.

Paper IV: Garment Construction

CO 1: Students will learn pattern making and stitching of skirts, kurti and kalidarkurta and pyjama for ladies garments.

CO 2: With the help of Commercial pattern making the students will be able to work with industry.

Paper V: Fashion Concepts

CO 1: To understand, analyse and apply principles and elements of design with respect to textile garments

CO 2: Students will understand relation between design development and colour importance.

Paper VI: Workshop - Surface Ornamentation

CO 1: To enable the students to beautify garments by imparting practical skills in needle craft, embroidery, painting and other decorative materials

CO 2: Students will learn to demonstrate and understand how an art form expresses the culturethat produced it.

Paper VII: CAD in Fashion

CO 1: To enables students learn, methods of surface ornamentation of fabric using different techniques to produce value added products

CO 2: To impart knowledge about CorelDraw and photo paint.

CO 3: Students will gain CAD based application in fashion designing

Semester- II

Paper I: Pattern Making

CO 1: To impart knowledge about different aspects of pattern making, dart manipulation, draping & commercial pattern making techniques.

Paper II: Fashion Illustration

CO 1: To enables students to understand: Figure sketching.

CO 2: Illustration techniques for various garment details.

Paper III: Garment Designing

CO 1: Students will able to understand: Fashion details and designing various outfits, illustration techniques and fashion design concepts.

Paper IV: Garment Construction

CO 1: Students will be able to learn various construction techniques in apparel designing

CO 2: Students will be able to apply above learnt techniques in garment construction.

Paper V: Fundamentals Of Textiles

CO 1: To identify and discuss concepts related to the traditional fabrics of different states of India.

CO 2: To assess, importance of textiles in fashion designing.

Paper VI: Workshop - Surface Ornamentation

CO 1: Students will to learn methods of surface ornamentation of fabric to produce value added products.

CO 2: To enable the students to develop practical skills in needle craft and printing.

Paper VII: CAD In Fashion

CO 1: Students will get operating knowledge of Corel draw and photo paint.

CO 2: To learn CAD based application in fashion designing.