

Post Graduate Department of Multimedia
Name of Programme: 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 (PSO)

- 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.

Mapping of Course Outcomes

Semester: I

Paper: Drawing & Colour-I

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Ability to synthesize the use of drawing, perspective, two-dimensional design, and color.	Understanding	PO1	L2	Assignment
CO2	Understanding of basic principles of drawing, colors medium and techniques, concepts, and the ability to apply them to a specific aesthetic intent.	Apply	PO3	L3	Assignment
CO3	Create landscape and collage	Design	PO5	L6	Assignment
CO4	Explore the expressive possibilities of various media, and the diverse conceptual modes available to the painter.	Evaluating	PO2	L5	Assignment

Semester: I

Paper: Introduction to 3D-I

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand Key, Show or hide menu, Snap to grid, hot box display.	Understanding	PO1	L2	Assignment
CO2	Explain Viewports of Maya.	Evaluating	PO3	L2	Assignment
CO3	Explain Mesh, Channel box, Layer editor Hotbox and Autosave.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO4	Develop and create an exterior scene.	Remembering/ Understanding	PO1	L1/L2	Assignment

Semester: I**Paper: Workshop–I**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Improving the ability to control materials, tools and techniques.	Analyze	PO3	L4	Assignment
CO2	Innovate first-hand experience and from imagination, and to select their own ideas to use in their work.	Apply	PO4	L3	Assignment
CO3	develop creativity and imagination through a range of complex activities	Design	PO3	L6	Assignment
CO4	Develop increasing confidence in the use of visual and tactile elements and materials.	Design	PO4	L6	Assignment

Semester: I**Paper: Elements of Art and Multimedia**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand the basic concepts of multimedia technology which will help them to get started easily in multimedia.	Remembering/ Understanding	PO2	L1/L2	Exam/Assignment
CO2	Get knowledge about various terms like, images, text, fonts, file formats.	Remembering/ Understanding	PO2	L1/L2	Exam/Assignment
CO3	Know about the various compression techniques, types of compressions etc	Apply	PO3	L3	Exam/Assignment
CO4	Design process is very important process for those who want to learn properly about designing.	Design	PO4	L6	Exam/Assignment

Semester: II**Paper: Drawing & Colour–II**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Knowledge of the traditions, conventions, and evolutions of the discipline as related to issues of representation, illusion, and meaning.	Remembering/Understanding	PO1	L1/L2	Assignment
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.	Remembering/Understanding	PO2	L1/L2	Assignment
CO3	Ability to apply them to a specific aesthetic intent	Apply	PO3	L3	Assignment
CO4	Create animation based on running/walking with following the elements of animation.	Design	PO5	L6	Assignment

Semester: II**Paper: Introduction to 3D–II**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand Shaders and its type.	Remembering/Understanding	PO1	L1/L2	Assignment
CO2	Get knowledge about purpose to use Parent and Child command	Remembering/Understanding	PO1	L1/L2	Assignment
CO3	Analyze the Hierarchy of 3D.	Analyze	PO3	L4	Assignment
CO4	Create an animation of any object (Ball, Walk, Run) using keyframes and graph editor.	Design	PO4	L6	Assignment

Semester: II**Paper: Theory of Media(Print Media & Script writing)**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Identify the difference between traditional printing techniques.	Remembering/Understanding	PO3	L1/L2	Exam/Assignment
CO2	Determine the flexibility of advertisement	Remembering/Understanding	PO2	L1/L2	Exam/Assignment
CO3	Analyze the various forms of modern printing..	Analyze	PO1	L4	Exam/Assignment
CO4	Critically analyze the units of Script Writing (Terminology, Concepts, Themes & Loglines)	Analyze	PO4	L4	Exam/Assignment

Semester: II**Paper: Workshop–II (Photography & Adobe Lightroom)**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand different kind of cameras, lenses and lights	Remembering/Understanding	PO1	L1/L2	Assignment/Project
CO2	Learn different camera functions like ISO, shutter speed, aperture	Remembering/Understanding	PO1	L1/L2	Assignment/Project
CO3	Create dynamic styles	Design	PO4	L6	Assignment/Project
CO4	Create artificial lens flare for photos.	Design	PO2	L6	Assignment/Project

Semester: II**Paper: Adobe Illustrator**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Get familiarizes students with Adobe Illustrator.	Remembering/Understanding	PO1	L1/L2	Assignment
CO2	Learn different types of effects used in Graphic Designing.	Remembering/Understanding	PO1	L1/L2	Assignment
CO3	Analyze designs and their processes.	Analyze	PO4	L4	Assignment
CO4	Design their own publishing	Design	PO3	L6	Assignment

Semester: III**Paper: Film Appreciation-I**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Identify ways sound contributes to movies.	Analyze	PO4	L4	Assignment/Project
CO2	Get Knowledge about Performing Art.	Remembering/Understanding	PO2	L1/L2	Assignment/Project
CO3	Understand History of Indian Cinema	Remembering/Understanding	PO1	L1/L2	Assignment/Project
CO4	Analyze concepts behind storytelling, Miseen Scène, and cinematography.	Analyze	PO4	L4	Assignment/Project

Semester: III**Paper: Animation in 3D**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand Basic of Character modeling and types of modeling	Remembering/Understanding	PO1	L1/L2	Assignment
CO2	Analyze the arms, leg and foot models.	Analyze	PO4	L4	Assignment
CO3	Evaluate Rendered object in 3D.	Evaluating	PO3	L5	Assignment
CO4	Create Human character modeling and create body parts of human.	Design	PO5	L6	Assignment

Semester: III**Paper: Adobe Photoshop**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand the difference types of graphics.	Remembering/Understanding	PO3	L1/L2	Assignment
CO2	Gaining Knowledge about Image Formats and Pixalisation.	Remembering/Understanding	PO1	L1/L2	Assignment
CO3	Enable them to use various tools of Photoshop.	Apply	PO3	L3	Assignment
CO4	Get knowledge about different types of editing techniques in Photoshop.	Remembering/Understanding	PO1	L1/L2	Assignment
CO5	Develop different photo manipulations.	Design	PO4	L6	Assignment

Semester: III**Paper: HTML5**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Utilize web technologies.	Evaluating	PO4	L5	Exam/Assignment
CO2	Administer and maintain a website.	Analyze	PO2	L4	Exam/Assignment
CO3	Learn techniques of responsive web design, including media queries.	Remembering/Understanding	PO1	L1/L2	Exam/Assignment
CO4	Develop, administer, and maintain a web programming system solution.	Design	PO5	L6	Exam/Assignment

Semester: III**Paper: CorelDraw**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Utilize graphic designing techniques.	Evaluating	PO4	L5	Assignment/Project
CO2	Administer thoughts into graphics.	Analyze	PO2	L4	Assignment/Project
CO3	Learn techniques of attractive web designs.	Remembering/Understanding	PO1	L1/L2	Assignment/Project
CO4	Develop calendars, event planners and other graphic designs.	Design	PO65	L6	Assignment/Project

Semester: III**Paper: Project - V**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Utilize their skills to develop a combination of web technology and graphic designing.	Apply	PO3	L3	Assignment
CO2	Learn migrating graphic into websites.	Analyze	PO2	L4	Assignment
CO3	Learn techniques of attractive web designs.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO4	Develop own online portfolios.	Design	PO5	L6	Assignment

Semester: IV**Paper: Adobe Flash**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Create basic shapes and used Tweening on it.	Design	PO6	L6	Exam/Assignment
CO2	Build Small Animations using timeline	Apply	PO4	L3	Exam/Assignment
CO3	Execute Expressions on Keyframes	Evaluating	PO2	L5	Exam/Assignment
CO4	Create e-cards with sound.	Design	PO6	L6	Exam/Assignment

Semester: IV**Paper: PHP**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understanding POST and GET in form submission.	Remembering/ Understanding	PO2	L1/L2	Exam/Assignment
CO2	Enable them to read and write cookies.	Apply	PO3	L3	Exam/Assignment
CO3	Use PHP built-in functions and creating custom functions.	Evaluating	PO4	L5	Exam/Assignment
CO4	Get knowledge about databases of php my Admin portal.	Understanding/Design	PO2	L1/L2	Exam/Assignment

Semester: IV**Paper: Dream Weaver**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand the working of websites in the real world	Remembering/ Understanding	PO1	L1/L2	Exam/Assignment
CO2	Steps encountered during making any website live	Evaluating	PO3	L5	Exam/Assignment
CO3	Analyze and assume an idea about developing website.	Analyze	PO5	L4	Exam/Assignment
CO4	Create websites and web portals for professional and personal uses	Design	PO6	L6	Assignment/Project

Semester: IV**Paper: Film Appreciation-II**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand how motion picture industry of India works	Remembering/ Understanding	PO4	L1/L2	Assignment/Project
CO2	Analyze how the movies are being distributed.	Analyze	PO4	L4	Assignment/Project
CO3	Explain the stages of film production	Understanding	PO2	L2	Assignment/Project
CO4	Create own short story	Design	PO1	L6	Assignment/Project

Semester: IV**Paper: Project- II**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Learn and work on 3d and 2d animation software	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Develop skill of initiation, planning, execution, regulation and closure	Design	PO3	L6	Assignment
CO3	Analyze the workflow of the project.	Analyze	PO2	L4	Assignment
CO4	Explain how quality of product is established based upon the customer's needs	Apply	PO4	L3	Assignment/Project

Semester: V**Paper: Adobe Premiere Pro**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Design clean as well as expert titles for your video clips	Design	PO6	L6	Assignment
CO2	Edit a whole video clip from starting to finish, utilizing expert and also effective strategies.	Evaluating	PO5	L5	Assignment
CO3	Color corrects your video clip to repair problems with white balance and also direct exposure.	Apply	PO2	L3	Assignment
CO4	Modify your video clips, as well as make them a lot more vibrant with cutaway video footage and also images	Design	PO1	L6	Assignment/Project

Semester: V**Paper: Adobe After Effects**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Describe characteristics of well-designed and executed animation.	Understanding	PO1	L2	Assignment
CO2	Assess and critique past and current animation trends	Analyze	PO5	L4	Assignment
CO3	Demonstrate progress in basic sculpting, puppet making and animation skills	Evaluating	PO4	L5	Assignment
CO4	Create Motion Graphics.	Design	PO3	L6	Assignment/Project

Semester: V**Paper: Workshop-III**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Get knowledge about production process	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Learn 3 different kinds of production processes	Remembering/ Understanding	PO2	L1/L2	Assignment
CO3	Learn about different kinds of topics like frame rate, storyboard, camera angles, exposure and many other things.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO4	Develop their own documentary.	Design	PO5	L6	Assignment/Project

Semester: V**Paper: Sound Editing and Recording**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Working with video, Attaching & detaching a video	Remembering/ Understanding	PO3	L1/L2	Assignment
CO2	Understand Basic editing, editing tools, Play the content of the clipboard	Remembering/ Understanding	PO1	L1/L2	Assignment
CO3	Working with All Effects, Sampling Sound, MIDI synchronization	Apply	PO3	L3	Assignment
CO4	Create their own mashups and mix Audio	Design	PO5	L6	Assignment/Project

Semester:V**Paper: Technical Theory of Media – II (Electronic Media)**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Able to use the skills in the creative industry – be it television channels, information technology, public relations, or corporate communication.	Apply	PO2	L3	Assignment
CO2	simplify technical content in simple language and multimedia as part of technical communication	Remembering/ Understanding	PO1	L1/L2	Assignment
CO3	Get equipped with lots of soft skills required of many of the managerial and high-profile jobs	Remembering/ Understanding	PO1	L1/L2	Assignment
CO4	Develop and implement communication for development projects at local, regional and global levels	Design	PO5	L6	Assignment/Project

Semester: V**Paper: Project–III**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Use adobe Premiere, aftereffects and Sound forge.	Apply	PO4	L3	Assignment
CO2	Create visual outputs.	Design	PO3	L6	Assignment
CO3	Handling different Extensions for Deferent platforms	Evaluating	PO2	L5	Assignment
CO4	Executing software integration and Project Rendering	Apply	PO6	L3	Assignment/Project

Semester: VI**Paper: 3D Studio Max**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Gain knowledge about the interface of 3D Max	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Learn working with Nurbs, which will help them to create more smooth and attractive models	Remembering/ Understanding	PO2	L1/L2	Assignment
CO3	Understand many different mapping techniques and many kind of materials.	Remembering/ Understanding	PO2	L1/L2	Assignment
CO4	Design their own 3d Models of different characters.	Design	PO5	L6	Assignment/Project

Semester: VI**Paper: Introduction to 3D**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Know about types of modeling to use in creating models.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Understand 12 basic principles of animation	Understanding	PO1	L2	Assignment
CO3	Analyze Mapping and texturing	Analyze	PO4	L4	Assignment
CO4	Develop their own 3d Object Model	Design	PO5	L6	Assignment/Project

Semester: VI**Paper: Drawing & Illustration**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understanding of basic principles of drawing and color, concepts	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Ability to synthesize the use of drawing, two-dimensional design, and color, beginning with basic studies and continuing	Apply	PO3	L3	Assignment
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	Remembering/ Understanding	PO2	L1/L2	Assignment
CO4	Use drawing and illustration skill to visually communicate abstract concepts.	Design	PO4	L6	Assignment/Project

Semester: VI**Paper: Workshop–IV: (Stop Motion)**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Create accurate and aseptically appealing stop motion animation	Design	PO5	L6	Assignment
CO2	Describe characteristics of well-designed and executed animation	Evaluating	PO3	L5	Assignment
CO3	Demonstrate progress in basic sculpting, puppet making and animation skills.	Apply	PO2	L3	Assignment
CO4	Critically analyze your creative work and the work of others	Analyze	PO3	L4	Assignment/Project

Semester: VI**Paper: Blender**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Create animation of different types of ball using key frames and graph- editor	Design	PO5	L6	Assignment
CO2	Create an exterior scene of any building	Design	PO4	L6	Assignment
CO3	Use Camera and lights in Interior (lab)	Apply	PO3	L3	Assignment
CO4	Create a dice, chair, table and sofa with proper detail	Design	PO3	L6	Assignment/Project

Semester: VI**Paper: Project – IV**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understanding software integration.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Create time laps video.	Design	PO4	L6	Assignment
CO3	Modify 3d objects using blender.	Evaluating	PO5	L5	Assignment
CO4	Create output using 3d.	Design	PO2	L6	Assignment/Project

Semester: VII**Paper: Maya**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Model the arms, leg, foot, hand etc. in detail	Apply	PO3	L3	Assignment
CO2	Rigged the body using kinematics, deformer	Apply	PO3	L3	Assignment
CO3	Create Ear and Eyes	Design	PO4	L6	Assignment
CO4	Create animation using principles such as walk cycle, Run cycle, Jump and Push.	Design	PO5	L6	Assignment

Semester: VII
Paper: Mudbox

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Get knowledge about creating different 3D models and objects	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Understand how 3D objects are made and sculpted, which are commonly used in VFX, games and many other fields.	Remembering/ Understanding	PO1	L1/L2	Assignment
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	Apply	PO3	L3	Assignment
CO4	Create different textured models.	Design	PO5	L6	Assignment/Project

Semester: VII
Paper: Project-V

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand how 3D objects are made and sculpted, which are commonly used in VFX, games and many other fields.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	In Maya, they will get knowledge about creating different 3D models and objects	Remembering/ Understanding	PO2	L1/L2	Assignment
CO3	In Mudbox, they will get to know about sculpting	Remembering/ Understanding	PO1	L1/L2	Assignment
CO4	Create their own interior and exterior designs	Design	PO4	L6	Assignment/Project

Semester: VIII
Paper: 3D and Animation in Photoshop

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understanding 3d in Photoshop.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Understanding features of extended version.	Remembering/ Understanding	PO2	L1/L2	Assignment
CO3	Creating 3d Text using Extrude and postcard feature.	Design	PO5	L6	Assignment
CO4	Create and Rendering 3d Logos	Design	PO4	l6	Assignment

Semester: VIII**Paper: Motion Graphics for Commercials**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
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.	Remembering/ Understanding	PO1	L1/L2	Assignment
CO2	Understand Animation process, because understanding basic animation process can help them to make their animation more realistic and more attractive	Remembering/ Understanding	PO1	L1/L2	Assignment
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	Apply	PO5	L3	Assignment
CO4	Getting knowledge about motion graphic composition will also help them in improving their work flow, which will make them work faster and accurately.	Remembering/ Design	PO5	L1/L2	Assignment/Project

Semester: VIII**Paper: 3D Human Modeling and Animation**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Get to know many different mapping techniques and many kind of materials.	Remembering/ Understanding	PO3	L1/L2	Assignment
CO2	Learn cloning objects and objects array's, grouping and linking objects.	Remembering/ Understanding	PO2	L1/L2	Assignment
CO3	Get in depth knowledge about animation in 3DMax, animating an object	Understanding	PO4	L2	Assignment/Project
CO4	Develop their work to gain position in 3D field.	Design	PO5	L6	Assignment/Project

Semester: VIII**Paper: Industrial Training**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
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..	Evaluate	PO5	L5	Assignment/Project
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.	Apply	PO5	L3	Assignment/Project
CO3	Demonstrate an advanced knowledge of photo editing including: image manipulation, color correction, compositing, toning, and preparing for distribution.	Remembering/ Understanding	PO1	L1/L2	Assignment/Project
CO4	Assemble video projects in professional non-linear editing software showing proficiency in importing, exporting, effects, transitions, color correcting, and flow.	Design	PO6	L6	Assignment/Project

Name of Programme: 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.

Mapping of Course Outcomes

Semester: I

Paper: Computer Fundamentals and MS Office

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand how the computers have evolved over the decade..	Remembering/ Understanding	PO3	L1/L2	Assignment
CO2	learn the detailed Concepts of Computer Hardware and Software.	Understanding	PO1	L2	Exam/Assignment
CO3	Understand the relation between WWW and Internet.	Apply	PO5	L3	Exam/Assignment
CO4	Understand the working of Microsoft Office Suite.	Understanding	PO1	L6	Quiz/Seminar
CO5	Create documents of different types using the hardware and software.	Design	PO5	L6	Exam/Assignment

Semester: I

Paper: Markup Languages (HTML,HTML5, and CSS)

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Utilize web technologies.	Evaluating	PO4	L5	Exam/Assignment
CO2	Administer and maintain a website.	Analyze	PO2	L4	Exam/Assignment
CO3	Learn techniques of responsive web design, including media queries.	Remembering/ Understanding	PO1	L1/L2	Exam/Assignment
CO4	Develop, administer, and maintain a web programming system solution..	Design	PO6	L6	Exam/Assignment

Semester: I**Paper: Programming Fundamentals (C& C++)**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand basics of Programming.	Understanding	PO1	L2	Exam/Assignment
CO2	Demonstrate problem-solving skills.	Apply	PO5	L3	Exam/Assignment
CO3	Apply logical skills to programming in a variety of languages.	Apply	PO4	L3	Exam/Assignment
CO4	Gaining knowledge about the dynamic behavior of memory by the use of pointers.	Design	PO6	L6	Exam/Assignment

Semester: I**Paper: Adobe Photoshop**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand the difference types of graphics.	Remembering/Understanding	PO3	L1/L2	Exam/Assignment
CO2	Gaining Knowledge about Image Formats and Pixalisation.	Understanding	PO2	L2	Exam/Assignment
CO3	Enable them to use various tools of Photoshop.	Apply	PO4	L3	Exam/Assignment
CO4	Get knowledge about different types of editing techniques in Photoshop.	Understanding	PO1	L2	Exam/Assignment
CO5	Develop different photo manipulations.	Design	PO6	L6	Exam/Assignment

Semester: II**Paper: Web Programming with PHP-I**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understanding POST and GET in form submission.	Remembering/Understanding	PO2	L1/L2	Exam/Assignment
CO2	Enable them to read and write cookies.	Apply	PO3	L3	Exam/Assignment
CO3	Use PHP built-in functions and creating custom functions.	Evaluating	PO4	L5	Exam/Assignment
CO4	Get knowledge about databases of php my Admin portal.	Understanding/Design	PO2	L1/L2	Exam/Assignment

Semester: II**Paper: Design & Layout (Dreamweaver)**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand the working of websites in the real world.	Remembering/ Understanding	PO1	L1/L2	Exam/Assignment
CO2	Steps encountered during making any website live	Evaluating	PO3	L5	Exam/Assignment
CO3	Analyze and Assume an idea about developing website.	Analyze	PO5	L4	Exam/Assignment
CO4	Create websites and web portals for professional and personal uses	Design	PO6	L6	Exam/Assignment

Semester: II**Paper: Analysis and Design for Web Applications**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Categorize the websites on the basis of their development ideas.	Analyze	PO6	L4	Exam/Assignment
CO2	Understand Website Requirements and Paper Work behind any website	Understanding	PO2	L2	Exam/Assignment
CO3	Analyze the websites.	Analyze	PO3	L4	Exam/Assignment
CO4	Critically analyze the already developed websites.	Analyze	PO3	L4	Exam/Assignment

Semester: II**Paper: JavaScript-I**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Use operators, variables, arrays, control structures, functions and objects in JavaScript.	Understanding/Apply	PO2	L1/L2	Exam/Assignment
CO2	Classify popular JavaScript Libraries	Evaluating	PO4	L5	Exam/Assignment
CO3	Create dynamic styles	Design	PO5	L6	Exam/Assignment
CO4	Evaluate different JavaScript Events.	Evaluating	PO2	L5	Exam/Assignment

Semester: III**Paper: Java Script II**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Explain separation of concerns and identify all the dynamic websites.	Remembering/ Understanding	PO4	L1/L2	Exam/Assignment
CO2	Identify advanced JavaScript Array Methods	Analyze	PO3	L4	Exam/Assignment
CO3	Use regular expressions for form validation.	Apply	PO5	L3	Exam/Assignment
CO4	Create develop Error free website.	Design	PO6	L6	Exam/Assignment
CO5	Modify the events used in the dynamic websites.	Design	PO6	L6	Exam/Assignment

Semester: III**Paper: Operating System**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Describe the important computer system resources and the role of operating system in their management policies and algorithms.	Understanding	PO1	L2	Exam/Assignment
CO2	Understand the process management policies and scheduling of processes by CPU	Understanding	PO2	L2	Exam/Assignment
CO3	Evaluate the requirement for process synchronization and coordination handled by operating system.	Evaluating	PO4	L5	Exam/Assignment
CO4	Identify the need to create the special purpose operating system	Apply	PO5	L3	Exam/Assignment
CO5	Compile the different commands of Operating System.	Design	PO6	L6	Exam/Assignment

Semester: III**Paper: Java Programming**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity.	Design	PO6	L6	Exam/Assignment
CO2	Identify classes, objects, members of a class and the relationships among them needed for finding the solution to specific problem	Evaluating	PO5	L5	Exam/Assignment
CO3	Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development	Apply	PO5	L3	Exam/Assignment
CO4	Demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.	Analyze	PO5	L4	Exam/Assignment

Semester: III**Paper: Wordpress**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Creating a dynamic space for multimedia (blogs, podcasts, video resources, etc)	Design	PO6	L6	Exam/Assignment
CO2	Engaging and working within a chosen theme	Evaluating	PO5	L5	Exam/Assignment
CO3	An understanding of the importance of Universal Design and accessibility when designing for the Web	Understanding	PO3	L2	Exam/Assignment
CO4	Engagement with the affordances of WordPress (.css, .php, other) based on the needs and desires of the faculty member	Design	PO4	L6	Exam/Assignment

Semester: IV**Paper: Database System**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Understand the features of database management systems and Relational database.	Remembering/ Understanding	PO2	L1/L2	Exam/Assignment
CO2	Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra	Design	PO6	L6	Exam/Assignment
CO3	Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.	Analyze	PO5	L4	Exam/Assignment
CO4	Retrieve any type of information from a data base by formulating complex queries in SQL.	Apply	PO5	L3	Exam/Assignment
CO5	Use the SQL in Procedural Language for simple applications.	Apply	PO5	L3	Exam/Assignment

Semester: IV**Paper: Software Engineering**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques.	Understanding/ Remembering	PO1	L1/L2	Exam/Assignment
CO2	Define various software application domains and remember different process model used in software development	Apply	PO3	L3	Exam/Assignment
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.	Design	PO6	L6	Exam/Assignment
CO4	Justify role of SDLC in Software Project Development and they can evaluate importance of Software Engineering in PLC.	Analyze	PO5	L4	Exam/Assignment

Semester:IV
Paper: PHP-II

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Build Dynamic web site using server side PHP Programming and Database connectivity.	Design	PO6	L6	Exam/Assignment
CO2	Outline the principles behind using MySQL as a backend DBMS with PHP	Analyze	PO2	L4	Exam/Assignment
CO3	Understand the differences between LAMP, WAMP, and MAMP.	Understanding	PO4	L2	Exam/Assignment
CO4	Compile the working of programming language and a scripting language.	Evaluating	PO5	L5	Exam/Assignment

Semester:IV
Paper: Adobe Flash

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Create basic shapes and used Tweening on it.	Design	PO6	L6	Exam/Assignment
CO2	Build Small Animations using timeline	Apply	PO4	L3	Exam/Assignment
CO3	Execute Expressions on Keyframes	Evaluating	PO2	L5	Exam/Assignment
CO4	Create e-cards with sound.	Design	PO6	L6	Exam/Assignment

Semester:V
Paper: Software Re-Engineering

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Assess which parts should be reengineered first.	Analyze	PO6	L4	Exam/Assignment
CO2	Extract coarse-grained and fine-grained design models	Apply	PO5	L3	Exam/Assignment
CO3	Identify the risks and opportunities for a given re-engineering project	Analyze	PO3	L4	Exam/Assignment
CO4	Exploit tests during re-engineering.	Evaluating	PO5	L5	Exam/Assignment
CO5	Solve the typical problems of an object-oriented re-engineering project.	Design	PO6	L6	Exam/Assignment

Semester:V
Paper: Software Project Management and Business Solutions

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Distinguish among SCM and SQA and can classify different testing strategies and tactics and compare them.	Evaluating	PO5	L5	Exam/Assignment
CO2	Identify the different project contexts and suggest an appropriate management strategy	Understanding	PO2	L2	Exam/Assignment
CO3	Practice the role of professional ethics in successful software development	Apply	PO3	L3	Exam/Assignment
CO4	Determine an appropriate project management approach through an evaluation of the business context and scope of the project.	Analyze	PO4	L4	Exam/Assignment

Semester: V**Paper: ASP .NET with C#**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Create user interactive web pages using ASP.Net.	Apply	PO2	L3	Assignment
CO2	Performing Database operations for Windows Form and web applications.	Analyze	PO3	L4	Assignment
CO3	Make database connection using proper controls	Evaluating	PO4	L5	Assignment
CO4	Validate the field elements using validator control.	Design	PO3	L6	Assignment/Project

Semester: V**Paper: Software Testing & Quality Assurance**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Familiar with the process of verification and validation.	Understanding/ Remembering	PO2	L2/L1	Exam/Assignment
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	Analyze/ Apply	PO4	L4/L3	Exam/Assignment
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	Understanding	PO2	L2	Exam/Assignment
CO4	Analyze code to automate test execution.	Analyze	PO6	L4	Exam/Assignment

Semester: V**Paper: Adobe Muse**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Demonstrate planning and creating website using Muse.	Understanding	PO2	L2	Exam/Assignment
CO2	Able to add text to website, formatting text, and adding images and graphics	Apply	PO3	L3	Exam/Assignment
CO3	Modify menus, widgets, and links within site	Apply	PO3	L3	Exam/Assignment
CO4	Analyze publishing site to the web.	Analyze	PO4	L4	Exam/Assignment

Semester: V**Paper: Lab: Software Testing (Case Tools**

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Demonstrate the steps of software development.	Understanding/ Remembering	PO2	L1/L2	Exam/Assignment
CO2	Develop and Design the UML Diagrams.	Design	PO6	L6	Exam/Assignment
CO3	Modify the levels of SDLC.	Apply	PO4	L3	Exam/Assignment
CO4	Analyze the errors to be encountered during the development of a software.	Analyze	PO3	L4	Exam/Assignment

Semester: VI

Paper: Major Project

	Course Outcome	Skill	PO	Bloom's Taxonomy Level	Assessment Tools
CO1	Create their own Website or Portal using all the web technologies they have learnt through this programme.	Design	PO6	L6	Project/Assignment
CO2	Able to make the website live on the Internet and start making money	Apply	PO6	L3	Project/Assignment
CO3	Modify assistive tools for the running websites	Apply	PO6	L3	Project/Assignment
CO4	Create and compile their own idea in the form of a working and interactive website using all the technologies learnt throughout the program.	Design	PO5	L6	Project/Assignment