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

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

Mapping of Course Outcomes

Semester- I
Paper: Micro Economics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Explain law of Demand, factors effecting demand, why demand curve slopes downwards, can identify various types of demand.	Understanding Remembering	PO3	L2 L1	Exam Quiz Assignment
CO 2: Evaluate price, income and cross elasticity of demand.	Evaluating	PO4	L5	Exam Quiz Assignment
CO 3: Illustrate revenue and cost curve through diagrams	Understanding	PO2	L2	Exam Quiz Assignment
CO 4: Compare different forms of market and producer's equilibrium.	Understanding	PO2	L2	Exam Quiz Assignment

Semester II
Paper: Macro Economics

Course Outcomes	Skill	PO	Bloom's Level	Assessing tools
CO 1: Compare and Contrast between Micro and Macroeconomics.	Understanding,	PO2	L2	Exams Assignment
CO 2: Compare the features and departure of Classical Model of Income, Output and Employment from Keynesian Model of Income, Output and Employment.	Compare Understanding	PO2	L2	Quiz Questioning
CO 3: Critically understand the concept of effective demand in determination of income and employment and its relative importance	Criticize Compare	PO2	L4 L5	Assignment Exam
CO 4: Analyze the concept of consumption function, M.P.C. and A.P.C. and explain and illustrate Psychological Law of Consumption.	Analyzing Understanding	PO2	L4 L2	Assignment Quiz Questioning

Semester III
Paper : Indian Economy

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. 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.	Understand	PO1 PO2	L2	Exam Assignment Seminar Group Discussion Viva voce
CO2. Analyse the progress and changing nature of agriculture, industry and tertiary sectors and their contribution to the economy as a whole.	Analyse	PO3	L4	Exam Assignment Seminar Group Discussion Viva voce
CO3. Develop a perspective on the different economic problems in India.	Develop	PO4 PO5 PO6	L6	Exam,Assignment Seminar Group Discussion Viva voce
CO4. Elaborate the planning process and economic reforms undertaken by the government of India, its objectives, failures and achievements.	Elaborate	PO4 PO5 PO6 PO7	L6	Exam Assignment Seminar Group Discussion Viva voce

Semester- IV, Paper: International Economics and Public Finance

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO 1: Explain the concepts of terms of trade and contrast the theories of international trade.	Explain/ Contrast	PO4 PO5 PO6 PO7	L5	Exam Assignment Seminar Group Discussion Viva voce
CO 2: Compare free trade and protectionist policy and analyze the impact of International trade on economic development.	Compare/ Analyze	PO3 PO4 PO6	L5 L4	Exam, Assignment Seminar Group Discussion Viva voce
CO 3: Analyse the impact of public policy on the allocation of resources and analysis of public expenditures, taxation, budgetary procedures and debt issues.	Analyse	PO3	L4	Exam Assignment Seminar Group Discussion Viva voce
CO 4: Elaborate the fixed and flexible exchange rates and propose the methods for correcting adverse balance of payments.	Elaborate Propose	PO4 PO5 PO6 PO7	L6	Exam Assignment Seminar Group Discussion Viva voce

Semester- V, Paper: Economics of Development

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1: Understand the concepts, factors and measurement of Economic Development.	Understand	PO1 PO2	L2	Exam, Assignment Seminar, Group Discussion Viva voce
CO2: Identify the nature and characteristics of Underdevelopment.	Identify	PO3 PO4	L3	Exam, Assignment Seminar, Group Discussion Viva voce
CO3: Analyse various models of economic growth.	Analyse	PO3	L4	Exam, Assignment Seminar, Group Discussion Viva voce
CO4: Contrast the Export Promotion and Import Substitution policies of development.	Contrast	PO4 PO5	L4	Exam, Assignment Seminar, Group Discussion Viva voce
CO5: Assess the sources of capital formation and the choice of techniques.	Assess	PO4 PO6	L5	Exam, Assignment Seminar, Group Discussion Viva voce Viva voce
CO6: Elaborate the role of planning in under developed countries, its need, objectives, strategy, types and problems.	Elaborate	PO4 PO5 PO6 PO7	L6	Exam, Assignment Seminar, Group Discussion Viva voce Viva voce

Semester- VI, Paper: Quantitative Methods for Economists

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO 1: Illustrate the concepts of Sets, Relations, Functions, Limits, Continuity, Derivatives, Maxima/ Minima and Matrices.	Illustrate	PO3 PO4	L2	Exam. Assignment Seminar Viva voce
CO 2: Use and apply the measures of central tendency, dispersion, skewness and kurtosis.	Use/ Apply	PO3 PO4 PO5 PO7	L3	Exam. Assignment Seminar Viva voce
CO 3: Analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients.	Analyse/ Interpret/ Estimate	PO3 PO4 PO5 PO6 PO7	L4,L5,L6	Exam. Assignment Seminar Viva voce
CO 4: Construct index numbers for different purposes and test the consistency.	Construct/ Test	PO3 PO4 PO5 PO6	L6	Exam. Assignment Seminar Viva voce
CO 5: Estimate the missing values with various methods of interpolation.	Estimate	PO4 PO5 PO6	L6	Exam, Assignment Seminar, Viva voce

Semester II
Paper : Quantitative Techniques

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. 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.	Understand Demonstrate	PO1, PO2, PO3, PO4	L2	Exam, Assignment Seminar, Viva voce
CO2. Use and apply the measures of central tendency and dispersion.	Use Apply	PO4, PO5, PO7	L3	Exam, Assignment Seminar, Viva voce
CO3. Analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients and trend values in time series analysis.	Analyse Interpret Estimate	PO3, PO4, PO5, PO6, PO7	L4 L5 L6	Exam, Assignment Seminar, Viva voce
CO4. Construct index numbers for different purposes and test the consistency.	Construct Test	PO4 PO, PO5 PO6	L6	Exam, Assignment Seminar, Viva voce

Semester- III
Paper: Quantitative Techniques-III

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Apply Maxima and Minima of function to solve various economics applications	Applying	PO2	L3, L6	Exam Illustration Assignments
CO 2: Uunderstand and apply the concept of matrices to solve various economics applications	Understanding Applying	PO2	L2,L3	Exam Illustration
CO 3: Solve Simultaneous system of equations using Crammer's rule and Matrix Inverse method and apply to solve real life situations	Applying	PO4	L 3	Exam Illustration Assignments
CO 4: Can find solution of the problems using Graphic and Simplex method of Linear Programming.	Creating	PO4	L6	Exam Illustration

Semester- IV, Paper: Quantitative Techniques-IV

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Find solution of Multiple Linear Regression, Partial and Multiple Correlation.	Creating	PO2 PO4	L6	Exam Illustration Assignments
CO 2: Understand Non-Linear Regression and able to estimate the fitting of various growth curves.	Understanding Evaluating	PO2	L2 L5	Exam Illustration Assignments
CO 3: Solve applications of probability based on addition, multiplication and Bayes theorem of probability.	Creating	PO4	L6	Exam Illustration Assignments
CO 4: Outline the concept of Random Variable, Probability Mass Function and Density Function, Mathematical Expectation, Moments, Moment Generating Function and Characteristic Function.	Understanding	PO4	L2	Exam Illustration Assignments

Semester- V, Paper: Quantitative Techniques

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO 1: The students will be able to understand and apply probability theory and theoretical probability distributions in economic applications.	Understand Apply	PO2 PO4	L2 L3	Exam Assignment Seminar
CO 2: The students will be able to use sample statistics to test hypothesis regarding population	Use Test	PO1 PO2 PO4	L3 L4	Exam Assignment Seminar
CO3: The students will be able to estimate the population parameters and to make judgments about the population.	estimate	PO1 PO2 PO4 PO7	L6	Exam Assignment Seminar
CO 4: The students will be able to present an economic argument in quantitative terms and develop ability to solve it.	Present Develop	PO1 PO2 PO4 PO7	L5 L6	Exam Assignment Seminar

Semester- VI, Paper: Quantitative Techniques

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1: The students will be able to understand, solve and build regression models	Understand Solve build	PO1 PO2 PO4	L2 L6	Exam Assignment Seminar
CO2: The students will be able to understand and detect various problems associated with regression such as autocorrelation, multicollinearity, heteroscedasticity along with their consequences and remedies.	Understand Detect	PO1 PO2 PO4	L2 L4	Exam Assignment Seminar
CO3: The students will be able to apply econometric methods like autoregressive distributed lag models to different economic theories.	Apply	PO1 PO2 PO4	L3	Exam Assignment Seminar
CO4: The students will be able to understand the concept of dummy variable and its application in different economic situations.	Understand	PO1 PO2 PO4	L2	Exam Assignment Seminar

Name of the Programme: BA/BSc Economics with Economics Honours

Semester-III

Paper-I Money and Banking

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to summarize the nature, kinds, functions and definition of money.	Summarise	PO4	L2	Exam Assignment Seminar
CO 2: The students will be able to identify the different measures of money supply in india.	Identify	PO1	L3	Exam Assignment Seminar
CO 3: The students will be able to understand and demonstrate credit creation by commercial banks	Understand Demonstrate	PO1 PO4	L2	Exam Assignment Seminar
CO 4: The students will be able to explain the role and functions of non–banking financial institutions.	Explain	PO1 PO4 PO5	L2	Exam Assignment Seminar

Semester-IV
Paper-II Public Finance

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to distinguish between public and private finance.	Distinguish	PO1	L4	Exam Assignment Seminar
CO2: The students will be able to analyse advantages and disadvantages of various sources of public revenue and classify taxation and discuss incidence, impact, and effects of taxation.	Analyse	PO1 PO4	L4	Exam Assignment Seminar
CO 3: The students will be able to critically examine causes of growth of public expenditure and its effect on economic growth, distribution and stability.	Examine	PO1 PO4 PO5	L4	Exam Assignment Seminar
CO 4: The students will be able to critically evaluate the need, role, burden and management of public debt.	Evaluate	PO1 PO4 PO5	L5	Exam Assignment Seminar

Name of the Programme: B. Com

Semester I
Paper: BCG 106 Business Statistics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO1: The students will be able to understand meaning of statistics, basic statistical concepts and relevance of statistics in business.	Understand	PO2 PO3 PO5	L2	Exam Assignment Seminar
CO 2: The students will be able to understand, calculate and interpret descriptive statistics such as measures of central tendency, dispersion, asymmetry, correlation, regression analysis, time series analysis and index numbers.	Understand Calculate Interpret	PO2 PO3 PO5	L2 L3 L5	Exam Assignment Seminar
CO 3: Understand and apply probability theory and theoretical probability distributions in business.	Understand Apply	PO2 PO3 PO5	L2 L3	Exam Assignment Seminar
CO 4: The students will be able to develop understanding of various types of probability and non-probability sampling techniques and their selection for drawing sample.	Develop Select	PO2 PO3 PO5	L5 L6	Exam Assignment Seminar

Semester- II, Paper: BCG-205 Business Economics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to 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.	Understand Calculate Interpret develop	PO2 PO3 PO5	L2 L3 L5 L6	Exam Assignment Seminar
CO 2: The students will be able to understand and determine consumers' equilibrium.	Understand Determine	PO2 PO3 PO5	L2 L5	Exam Assignment Seminar
CO 3: The students will be able to interpret and evaluate equilibrium of producers under different markets conditions.	Interpret evaluate	PO2 PO3 PO5	L5	Exam Assignment Seminar
CO4: The students will be able to identify various market structures and discuss their implications for resource allocation	Identify Discuss	PO2 PO3 PO5	L3 L6	Exam Assignment Seminar
CO5: The students will be able to differentiate between micro and macro concepts and objectives of economy.	Differentiate	PO2 PO3 PO5	L4	Exam Assignment Seminar
CO6: The students will be able to understand concept of national income, judge its importance apply and interpret different methods of measurement of national income in different sectors.	Understand Apply Judge Interpret	PO2 PO3 PO5	L2 L3 L5	Exam Assignment Seminar

Name of Programme: BBA
Semester-I, Paper: BBA-105 Managerial Economics-I

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Aanalyse the basic concepts, nature and scope of managerial economics.	Analysing	PO5	L4	Exam Quiz
CO 2:Eexplain fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.	Understanding	PO1	L2	Exam Assignment Seminar
CO 3: Distinguish between traditional and modern theory of costs.	Analysing	PO1	L4	Exam Assignment Seminar
CO 4: Compare and contrast different markets structure, their characteristics and short and long run equilibrium.	Understanding	PO5	L2	Exam Assignment Seminar

Semester-II, Paper: Managerial Economics-II

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. Define the concepts of Macroeconomics, National Income aggregates and compare the methods of measurement of national income.	Define/ Compare	PO1 PO2 PO4	L1 L5	Exam. Assignment Seminar Viva voce Group Discussion
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.	Apply	PO3 PO4 PO5	L3	Exam. Assignment Seminar Viva voce Group Discussion
CO3. Analyse the problem of inflation and examine its causes and consequences.	Analyse Examine	PO3 PO4	L4	Exam,Assignment Seminar, Viva voce Group Discussion
CO4. Elaborate the working of multiplier and formulate policy recommendations to counter business cycles.	Elaborate Formulate	PO4 PO5	L6	Exam,Assignment Seminar, Viva voce Group Discussion

Semester-III, Paper: Statistics for Business

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. 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.	Understand/ Demonstrate	PO1, PO2, PO3, PO4	L2	Exam. Assignment Seminar Viva voce
CO2. 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.	Illustrate/ Solve	PO3 PO4 PO5	L2 L6	Exam,Assignment Seminar, Viva voce Group Discussion
CO3. Use and apply the measures of central tendency, dispersion, skewness and kurtosis.	Use/ Apply	PO3 PO4 PO5	L3	Exam,Assignment Seminar, Viva voce Group Discussion
CO4. Analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients and trend values in time series analysis.	Analyse/ Interpret/ Estimate	PO3 PO4 PO5	L4 L5 L6	Exam,Assignment Seminar, Viva voce Group Discussion
CO5. Construct index numbers for different purposes and test the consistency.	Construct/ Test	PO3, PO4, PO5	L6	Exam, Assignment Seminar, Viva voce
CO6. Develop theoretical distributions by applying the concepts of probability.	Develop/ Apply	PO4 PO5	L6 L3	Exam,Assignment Seminar, Viva voce

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

Semester-I
Paper: Paper-IV Quantitative Techniques for Business-I

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to understand, calculate and interpret descriptive statistics such as measures of central tendency, dispersion, asymmetry.	Understand Calculate interpret	PO2 PO3 PO5	L2 L3 L5	Exam. Assignment Seminar
CO2: The students will be able to construct index numbers for different purposes, test their consistency and identify suitable and best method.	Construct Test identify	PO2 PO3 PO5	L3 L6	Exam. Assignment Seminar
CO3: The students will be able to understand, solve, fit trend analysis and estimate the values on the basis of fitted trend.	Understand Solve Fit estimate	PO2 PO3 PO5	L2 L6	Exam. Assignment Seminar
CO4: The students will be able to calculate simple and compound interest and apply discounting techniques.	Calculate Apply	PO2 PO3 PO5	L3	Exam. Assignment Seminar

Semester-II
Paper: Paper-III Quantitative Techniques for Business-II

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO1: The students will be able to evaluate nature and degree of association between variables by using various methods of measurement of correlation.	Evaluate	PO2 PO3 PO5	L5	Exam. Assignment Seminar
CO2: The students will be able to build regression models and estimate regression coefficients.	Build Estimate	PO2 PO3 PO5	L6	Exam. Assignment Seminar
CO 3: The students will be able to understand and apply probability theory and theoretical probability distributions in business.	Understand Apply	PO2 PO3 PO5	L2 L3	Exam. Assignment Seminar
CO 4: The students will be able to understand and compare various types of probability and non-probability sampling techniques and their selection for drawing sample.	Understand Compare Select	PO2 PO3 PO5	L2 L5	Exam. Assignment Seminar

Paper: VI Indian Financial System

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. Understand Indian Financial System, its significance, purpose, organization and components.	Understand	PO1 PO2	L2	Exam,Assignment Seminar, Viva voce Group Discussion
CO2. Compare and contrast traditional and innovative financial instruments and financial services.	Compare and contrast	PO4	L5	Exam,Assignment Seminar, Viva voce Group Discussion
CO3. Analyse the process of money creation and working of financial markets.	Analyse	PO3	L4	Exam,Assignment Seminar, Viva voce Group Discussion
CO4. Elaborate the development of financial institutions and commercial banking.	Elaborate	PO4 PO5	L6	Exam,Assignment Seminar, Viva voce Group Discussion

Name of Programme: B.Voc. (Banking and Financial Services)
Semester–II
Paper: BVC-203 Managerial Economics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Examine the basic concepts, nature and scope of managerial economics.	Analyzing	PO1	L4	Exam Assignment Seminar Quiz
CO 2: Exlain fundamental laws of consumption- Law of Diminishing Marginal Utility and Law of Equi-Marginal Utility.	Evaluating	PO2	L5	Exam Assignment Seminar
CO 3: Analyse the elasticity of demand, its meaning, types, degrees, methods of measuring, factors determining elasticity of demand and its importance.	Analyzing	PO2	L4	Exam Assignment Seminar
CO 4: Distinguish between traditional and modern theory of costs.	Analyzing	PO2	L4	Exam Assignment Seminar
CO 5: Compare and contrast different markets structure, their characteristics and short and long run equilibrium.	Understanding	PO1	L2	Exam Assignment Seminar

Semester–III
Paper: BVC-301 Business Statistics

Course Outcome	Skill	PO	Bloom's Level	AssessmentTools
CO 1: Explain the functions, scope and limitations of statistics	Understanding	PO2	L2	Exam Illustration
CO 2: Evaluate various types of averages – Arithmetic Mean (Simple and Weighted), Median and Mode.	Evaluating	PO2	L5	Exam Assignment
CO 3: Solve and build Regression equations.	Applying	PO1	L 3	Assignment Seminar
CO 4: Estimate trends using graphical method, semi average method, moving averages method and method of least squares for linear path.	Evaluating	PO1	L5	Exam Assignment Seminar Quiz
CO 5: Illustrate and solve simple applications of Probability based on addition and multiplication theorem of probability.	Understanding Applying	PO2	L2 L3	Exam Illustration

Semester–IV
BVC-402: BUSINESS ENVIRONMENT

Course Outcome	Skill	PO	Bloom's Level	AssessmentTools
CO 1: Analyse the Concept, Importance and Inter relationship between environment and business.	Analyzing	PO1	L4	Exam Assignment Quiz
CO 2: Distinguish between different Types of Environment	Analyzing	PO1 PO2	L4	Exam Assignment
CO 3: Explain the Economic roles of government.	Understanding	PO1	L2	Exam Assignment
CO 4: Understand Economic Environment its Nature and components.	Understanding	PO1	L2	Exam Assignment

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

Semester- II
Paper: BT-5 Bioinformatics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Solve and apply the concept of measures of central tendency.	Applying Acquired Knowledge	PO1 PO2 PO4	L3	Exam Illustration Assignments
CO 2: Evaluate dispersion and it's co-efficient by applying various methods of dispersion	Applying, Evaluating	PO1 PO2 PO4	L5	Exam Illustration Assignments
CO 3: Construct and build regression lines.	Creating	PO1 PO4	L6	Exam Illustration Assignments
CO 4: Create and Evaluate hypotheses for a chi-square test of goodness-of-fit and for a chi-square test for association..	Evaluating and creating	PO1 PO2 PO4	L5 L6	Exam Illustration Assignments

Name of Programme: MA (Economics)

Semester-I, MAE-101: MICROECONOMICS-I

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Analyse different economics problems	Examining	PO3	L4	Exam Assignment Seminar Quiz
CO 2: Explain role of assumptions in theory formulation	Understanding, Relating	PO2	L 3	Assignment Seminar
CO 3: Predict Consumer's behaviour under asymmetric information	Evaluating	PO2 PO3 PO4	L 5	Exam Assignment Seminar Quiz
CO 4: Examine recent developments in demand analysis (pragmatic approach and linear expenditure systems).	Creating	PO1 PO4	L6	Exam Seminar Assignment

Paper: MAE102 Macro Economics-I

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. Examine the concepts of Macroeconomics and National Income aggregates and compare the methods of measurement of national income.	Examine/ Compare	PO4	L4 L5	Exam,Assignment Seminar, Viva voce Group Discussion
CO2. Compare various methods of measurement of national income.	Compare	PO4	L5	Exam,Assignment Seminar, Viva voce Group Discussion
CO3. 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.	Apply	PO3, PO4, PO5	L3	Exam,Assignment Seminar, Viva voce Group Discussion
CO4. Analyse the circular flow of income and working of social accounting framework.	Analyse	PO3	L4	Exam,Assignment Seminar, Viva voce Group Discussion

Paper: MAE 103 Quantitative Methods for Economists-I

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO1: The students will be able to apply concept of derivatives, maxima minima for solving economic problems related to elasticity of demand, profit maximisation, cost minimisation, consumer's and producer's equilibrium.	Apply Solve	PO1 PO2 PO4	L3 L6	Exam Assignment Seminar
CO2: The students will be able to determine consumer's surplus and producer's surplus with application of integration.	Determine	PO1 PO2 PO4	L5	Exam Assignment Seminar
CO3: The students will be able to make optimal decision making related to choice and combination of inputs for maximising profits, revenues and minimising costs using linear programming techniques.	Decide	PO1 PO2 PO4	L5	Exam Assignment Seminar
CO4: The students will be able to apply the concept of matrices and input output tables to various economic problems.	Apply	PO1 PO2 PO4	L3	Exam Assignment Seminar

MAEO-11: Computer Applications for Economists

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Explain and identify various types of input and output devices.	Understanding and applying	PO2	L2 L3	Exam Assignments Quiz
CO 2: Convert one number system to another number system.	Analyzing	PO3, PO4	L4	Exam Illustration Assignments
CO 3: Construct programs in 'C' language.	creating	PO2, PO3	L6	Exam Illustration Assignments
CO 4: Develop accurate and well-designed documents using MS Word.	Applying	PO4	L3	Exam Assignments

Paper: MAEO4 Money, Banking and Finance

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. Identify the functions, kinds and role of money in socialistic and capitalistic economy.	Identify	PO3, PO4	3	Exam./ Assignment/ Seminar/ Group Discussion/ Viva voce
CO2. Analyse the demand and supply of money and the related theories.	Analyse	PO3	4	Exam./ Assignment/ Seminar/ Group Discussion/ Viva voce
CO3. Examine the structure of banking in India, nationalisation of banks in India and banking sector reforms.	Examine	PO4	4	Exam./ Assignment/ Seminar/ Group Discussion/ Viva voce
CO4. Evaluate the financial system, theories of banking, credit creation and monetary policy.	Evaluate	PO3, PO4	5	Exam./ Assignment/ Seminar/ Group Discussion/ Viva voce
CO5. Explain the functions of Central Banking with special reference to developing countries.	Explain	PO4, PO5	5	Exam./ Assignment/ Seminar/ Group Discussion/ Viva voce
CO6. Elaborate the determination of rate of interest, money and capital markets and recent developments.	Elaborate	PO4, PO5	6	Exam./ Assignment/ Seminar/ Group Discussion/ Viva voce

Semester–II
MAE-201: MICROECONOMICS-II

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Explain Short run and long run equilibrium of the firm and industry, price and output determination and supply curve under perfect competition.	Analyzing	PO1 PO4	L4	Exam Seminar Quiz
CO 2: Analyse and distinguish between different forms of markets.	Analyzing, compare	PO1 PO4	L4	Exam Seminar Assignment
CO 3: State and explain Baumol's sales revenue maximization model.	Creating, Applying	PO4	L3	Exam Seminar Assignment
CO 4: Summarize Pareto optimal conditions.	Understanding	PO3 PO4	L2	Exam Seminar Assignment

Paper: Macro Economics-II

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1. 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.	Apply	PO3 PO4 PO5	3	Exam Assignment Seminar Group Discussion Viva voce
CO2. Analyse the problem of inflation and its theories and examine its causes and consequences.	Analyse Examine	PO3 PO4	4	Exam Assignment Seminar Group Discussion Viva voce
CO3. Assess the recent developments in Macro Economics, their policy implications and evaluate the relative effectiveness of monetary and fiscal policies.	Assess Evaluate	PO3 PO4	5	Exam Assignment Seminar Group Discussion Viva voce
CO4. Formulate and propose policy recommendations to counter business cycles.	Formulate Propose	PO4 PO5	6	Exam Assignment Seminar Group Discussion Viva voce

Paper: MAE-203 Quantitative Methods for Economists-II

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO1: The students will be able to to 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.	Evaluate Use	PO1 PO2 PO4	L3 L5	Exam Assignment Seminar
CO2: The students will be able to understand, solve and build regression models, trend analysis.	Understand Solve build	PO1 PO2 PO4	L2 L6	Exam Assignment Seminar
CO3: The students will be able to develop understanding and justification for choice of various types of probability and non-probability sampling techniques, and the importance of randomization.	Develop Understand choose	PO1 PO2 PO4	L2 L5 L6	Exam Assignment Seminar
CO4: The students will be able to understand and apply probability theory and theoretical probability distributions in economic applications.	Understand Apply	PO1 PO2 PO4	L2 L3	Exam Assignment Seminar
CO5: The students will be able to use sample statistics to test hypothesis regarding population and estimate the population parameters and to make judgments about the population.	Use Estimate Judge	PO1 PO2 PO4	L3 L5 L6	Exam Assignment Seminar

Paper: MAEO-12 Operations Research

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO1: The students will be able to formulate operation research models to solve economic problems.	Formulate Solve	PO1 PO2 PO4	L6	Exam Assignment Seminar
CO2: The students will be able to understand and identify various types of queuing models and apply them to solve economic problems.	Understand Identify	PO1 PO2 PO4	L2 L3	Exam Assignment Seminar
CO3: The students will be able to determine optimum levels of inputs for maximizing profits, output and minimizing losses by applying linear programming models.	Determine Apply	PO1 PO2 PO4	L3 L5	Exam Assignment Seminar
CO4: The students will be able to solve transportation, game theory and assignment problems	Solve	PO1 PO2 PO4	L6	Exam Assignment Seminar

Paper: MAEO-1 Public Finance

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to distinguish between public, private and merit goods, and evaluate the role of public finance in development of economy.	Distinguish evaluate	PO1 PO3 PO4 PO5	L5	Exam Assignment Seminar
CO2: The students will be able to analyse advantages and disadvantages of various sources of public revenue and classify taxation and discuss incidence, impact, and effects of taxation.	Analyse Classify discuss	PO1 PO3 PO4 PO5	L4	Exam Assignment Seminar
CO 3: The students will be able to critically examine causes of growth of public expenditure and its effect on economic growth, distribution and stability.	Examine	PO1 PO3 PO4 PO5		Exam Assignment Seminar
CO 4: The students will be able to critically evaluate the need, role, burden and management of public debt.	Evaluate	PO1 PO3 PO4 PO5	L5	Exam Assignment Seminar
CO5: The students will be able to identify different types of budget and evaluate budgetary position of economy	Identify Evaluate	PO1 PO3 PO4 PO5	L5	Exam Assignment Seminar
CO6: The students will be able to critically examine the monetary and fiscal policy; centre state financial resources in Indian economy and resource transfer from union to state.	Examine	PO1 PO3 PO4 PO5		Exam Assignment Seminar

Name of Programme: M.Com.

Semester- I

Paper: MC-101 Managerial Economics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to understand and determine consumers' equilibrium through cardinal or ordinal utility analysis .	Understand determine	PO1 PO4	L2 L5	Exam Assignment Seminar
CO 2: The students will be able to analyse and evaluate equilibrium of producers under different markets conditions.	Analyse evaluate	PO1 PO4	L4 L5	Exam Assignment Seminar
CO3: The students will be able to identify various market structures and discuss their implications for resource allocation	Identify Discuss	PO1 PO4	L3	Exam/Assignment/Seminar
CO 4: The students will be able to evaluate various factors responsible for rise in consumption, national income and	Evaluate Apply	PO1 PO4	L3 L5	Exam Assignment Seminar

apply different methods of measurement of national income in various sectors.				
CO5: The students will be able to identify causes of inflation and policy measures needed to curb it.	Identify	PO1 PO4	L3	Exam Assignment Seminar

Paper: MC-102 Statistical Analysis for Business

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to understand and analyse process of collection data, and their sources.	Understand analyse	PO3 PO4	L2 L4	Exam Quiz Assignment Seminar
CO 2: The students will be able to develop understanding and justification for choice of various types of probability and non-probability sampling techniques, and the importance of randomization.	Develop choose	PO3 PO4	L2 L6	Exam Quiz Assignment Seminar Project
CO 3: The students will be able to understand and apply probability theory and theoretical probability distributions in business and research.	Understand apply	PO3 PO4	L2 L3	Exam Quiz Assignment Seminar
CO 4: The students will be able to design questionnaire, conduct pilot survey and pre testing of questionnaire.	Design Conduct	PO3 PO4	L6	Exam Quiz Assignment Seminar Project
CO 5: The students will be able to 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.	Use Test Estimate judge	PO3 PO4	L3 L5 L6	Exam Quiz Assignment Seminar Project
CO 6: The students will be able to select appropriate statistical techniques for summarizing, displaying, comparing, analysing and interpreting business data.	Select	PO3 PO4	L5	Exam/ Quiz/ Assignment/ Seminar/Project

Semester-II
Paper: MC-203 Research Methodology

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: The students will be able to critically assess, select and design appropriate research problem, research design and research process to achieve research objective.	Assess Select design	PO3 PO4	L3 L5 L6	Exam Quiz Assignment Seminar Project
CO 2: The students will be able to assess critically various methods like literature study, case study, structured surveys, in depth interviews, focus group interviews.	Assess	PO3 PO4	L5	Exam Quiz Assignment Seminar Project
CO 3: The students will be able to compare, evaluate and design various types of measurement and scaling techniques.	Compare Evaluate Design	PO3 PO4	L5 L6	Exam Quiz Assignment Seminar Project
CO 4: The students will be able to analyse and apply the process of collection, screening, transformation and analysis of data in research.	Analyse apply	PO3 PO4	L3 L4	Exam Quiz Assignment Seminar Project
CO 5: The students will be able to calculate, present, and discuss descriptive and inferential statistics.	Calculate Present discuss	PO3 PO4	L5 L6	Exam Quiz Assignment Seminar Project
CO 6: The students will be able to understand, evaluate, apply and test multivariate analysis techniques such as regression analysis, factor analysis, discriminant and logistic analysis.	Understand Evaluate Apply Test	PO3 PO4	L2 L3 L5 L6	Exam Quiz Assignment Seminar Project

Paper: Research Methodology

Course Outcome	Skill	PO	Bloom's Level	Assessing tools can be used to measure CO
CO1: Identify the objectives, types of research and review of literature.	Identify	PO3, PO4	3	Exam. Assignment Seminar Group Discussion Viva voce
CO2: Compare the research designs, sampling designs, measurement and scaling techniques.	Compare	PO4	L5	Exam. Assignment Seminar Group Discussion Viva voce
CO3: Evaluate the techniques of data collection, processing and analysis and interpret the results.	Evaluate Interpret	PO3 PO4	L5	Exam. Assignment Seminar Group Discussion Viva voce
CO4: Formulate a research problem, design research hypotheses, plan the layout of research project and conduct the test of significance.	Formulate Design Plan Test	PO4 PO3 PO5	L6	Exam. Assignment Seminar Group Discussion Viva voce

M.Sc. (Bioinformatics)

Semester-I
Paper: Basic Bioinformatics

Course Outcome	Skill	PO	Bloom's Level	Assessment Tools
CO 1: Evaluate various types of averages – Arithmetic Mean (Simple and Weighted), Median and Mode.	Evaluating		L5	Exam Assignment Seminar
CO 2: Solve and apply various methods of dispersion	Applying		L3	Exam Assignment Seminar Quiz
CO 3: Evaluate and create hypotheses for Fischer test, Student t-test, ANOVA, chi-square goodness-of-fit and for a chi-square test for association.	Evaluating and creating		L5 L6	Exam Assignment Seminar
CO 4: Solve and interpret Fischer test, Student's t-test, ANOVA and Chi-square test.	Applying, Understanding		L3 L2	Assignment Seminar