

# ECONOMICS UG PO CO

## COURSE OUTCOME

BA in “Economics” (Honours) syllabus (CBCS)

**1<sup>st</sup> Semester (Honours)**

**Paper Name: Microeconomics**

**Paper Code: ECO-HC-1016**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course is designed to expose the students to the basic principles of microeconomic theory. The course will illustrate how microeconomic concepts can be applied to analyze real-life situations.</li> </ul>	<p><b>Unit 1: Exploring the subject matter of Economics</b>                      Why study economics? Scope and method of economics; the economic problem; scarcity and choice; the question of what to produce, how to produce and how to distribute output; science of economics; the basic competitive model; prices, property rights and profits; incentives and information; rationing; opportunity sets; economic systems; reading and working with graphs.</p>	Remembering, Understanding
	<p><b>Unit 2: Supply and Demand: How Markets Work, Markets and Welfare</b>                      Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets.</p>	Understanding, Analyzing
	<p><b>Unit 3: The Households</b>                      The consumption decision-budget constraint, consumption and income/price changes, demand for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves; consumers’ optimum choice; income and substitution effects; labour supply and savings decision-choice between leisure and consumption.</p>	Understanding, Analyzing
	<p><b>Unit 4: The Firm and Perfect Market Structure</b></p>	Understanding, Remembering

	Behaviour of profit maximizing firms and the production process; short run costs and output decisions; costs and output in the long run.	
	<b>Unit 5: Imperfect Market Structure</b> Monopoly and anti-trust policy; government policies towards competition; imperfect competition.	Understanding, Remembering
	<b>Unit 6: Input Markets</b> Labour and land markets-basic concepts (derived demand, productivity of an input, marginal productivity of labour, marginal revenue product); demand for labour; input demand curves; shifts in input demand curves; competitive labour markets; and labour markets and public policy.	Understanding, Remembering

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)

**Paper Name: Mathematical Methods in Economics-I**

**Paper Code: ECO-HC-1026**

Course Outcome	Unit/ Topic	Blooms' Taxonomy
<ul style="list-style-type: none"> <li>This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. This course, means for illustrating the method of applying mathematical techniques to economic theory in general.</li> </ul>	<b>Unit 1: Preliminaries</b> Sets and set operations, relations and function, number system	Understanding, Analyzing
	<b>Unit 2: Functions of one real variable</b> Elementary types of functions: quadratic, polynomial, power, exponential, logarithmic, convex, quasi convex and concave functions, limit and continuity of functions	Understanding, Analyzing
	<b>Unit 3: Differential calculus</b> Differentiation of a function, Basic rules of differentiation, partial and total differentiation, second and higher order derivatives for single variable, economic applications of differentiation.	Understanding, Analyzing
	<b>Unit 4: Single variable optimization</b> Local and global optima: geometric characterization using calculus: tests for maximization and minimization, applications: profit maximization, cost minimization, revenue maximization.	Understanding, Analyzing
	<b>Unit 5 : Integration of functions</b> Meaning and significance of integration, basic rules of integration, significance of a constant after integration, application: derivations of total functions (total cost, total revenue, consumption and saving functions) from marginal functions, consumers' surplus and producer's surplus, problems relating to investment and capital formation.	Understanding, Analyzing

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**2<sup>nd</sup> Semester (Honours)**

**Paper Name: Introductory Macroeconomics**  
**Paper Code: ECO-HC-2016**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course aims to introduce the students to the basic concepts of Macroeconomics. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.</li> </ul>	<b>Unit 1: Introduction to Macroeconomics and National Income Accounting</b> Basic issues studied in macroeconomics: measurement of gross domestic product; income, expenditure and the circular flow: real versus nominal GDP; price indices; national income accounting for an open economy; balance of payments: current and capital accounts.	Understanding, Remembering, Analyzing
	<b>Unit 2: Money</b> Functions of money; quantity theory of money; determination of money supply and demand; credit creation; tools of monetary policy.	Remembering and Understanding
	<b>Unit 3: Inflation</b> Inflation and its social costs; hyperinflation	Understanding
	<b>Unit 4: The Closed Economy in the Short Run</b> Classical and Keynesian systems; simple Keynesian model of income determination; IS-LM model; fiscal and monetary multipliers.	Understanding and Remembering

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**2<sup>nd</sup> Semester (Honours)**

**Paper Name: Mathematical Methods for Economics-II**

**Paper Code: ECO-HC-2026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.</li> </ul>	<b>Unit 1: Linear algebra</b> Preference; utility; budget constraint; choice; demand; slusky equation; buying and selling; choice under risk and inter-temporal choice; revealed preference	Understanding, Remerging, Analyzing
	<b>Unit 2: Functions of several real variable</b> Homogeneous and homothetic functions: concepts, Differentiable functions: concepts, Implicit Function Theorem and applications	Understanding, Remerging, Analyzing
	<b>Unit 3 : Multi-variable optimization</b> Unconstrained optimization: geometric characterization, characterization using calculus and applications: price discrimination and multi-plant firm; constrained optimization with equality constraints, Lagrange multiplier, applications: consumer’s equilibrium and producer’s equilibrium	Understanding, Remerging, Analyzing
	<b>Unit 4: Differential equation</b> Meaning, first order differential equation, application to market model	Understanding, Remerging, Analyzing
	<b>Unit 5: Difference equation</b> First order difference equation, Cob-Web market model	Understanding, Remerging, Analyzing

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**3<sup>rd</sup> Semester (Honours)**

**Paper Name: Intermediate Microeconomics- I**

**Paper Code: ECO-HC-3016**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>• The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Here, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.</li> </ul>	<p><b>Unit 1: Consumer Theory</b> Preference; utility; budget constraint; choice; demand; Slutsky Equation; buying and selling; choice under risk and inter-temporal choice; revealed preference.</p>	<p>Remembering and Understanding</p>
	<p><b>Unit 2: Production, Costs and Perfect Competition</b> Technology; isoquants; production with one and more variable inputs; returns to scale; short run and long run costs; cost curves in the short run and long run; review of perfect competition.</p>	<p>Remembering and Understanding</p>

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BA in “Economics” (Honours) syllabus (CBCS)  
3<sup>rd</sup> Semester (Honours)

**Paper Name: Intermediate Macroeconomics- I**

**Paper Code: ECO-HC-3026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course introduces the students to formal modelling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an open economy.</li> </ul>	<b>Unit 1: Aggregate Demand and Aggregate Supply Curves</b> Deviation of aggregate demand and aggregate supply curve and supply curves; interaction of aggregate demand and supply.	Understanding and Analyzing
	<b>Unit 2: Inflation, Unemployment and Expectations</b> Philips curve; adaptive and rational expectations; policy ineffectiveness debate.	Understanding and Analyzing
	<b>Unit 3: Open Economy Models</b> Short-run open economy models; Mundell-Fleming model; exchange rate determination: purchasing power parity; asset market approach; Dornbusch’s overshooting model; monetary approach to balance of payments; international financial markets.	Understanding and Analyzing

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**3<sup>rd</sup> Semester (Honours)**

**Paper Name: Statistical Methods for Economics**

**Paper Code: ECO-HC-3026**

Course Outcome	Unit/ Topic	Blooms’ Economy
<ul style="list-style-type: none"> <li>This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data. The course introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference. The semester concludes with some topics in statistical inference that include point and interval estimation.</li> </ul>	<p><b>Unit 1: Introduction and Overview</b> The distinction between populations and samples and between population parameters and sample statistics; the use of measures of location and variation to describe and summarize data; moments-basic concepts and types.</p>	Understanding, Analyzing
	<p><b>Unit 2: Elementary Probability Theory</b> Sample spaces and events; probability axioms and properties; addition and multiplication theorem of probability and Bayes’ rule; independence of events.</p>	Understanding, Analyzing
	<p><b>Unit 3: Random Variable and Probability Distributions</b> Defining random variables; probability distributions; expected values of random variables and of functions of random variables; properties of commonly used discrete and continuous distributions (uniform, binomial, poisson and normal random variables)</p>	Understanding, Analyzing
	<p><b>Unit 4: Random Sampling and Jointly Distributed Random Variables</b> Density and distribution functions for jointly distributed random variables-basic concepts; covariance and correlation coefficients.</p>	Understanding, Analyzing
	<p><b>Unit 5: Sampling</b> Principal steps in a sample survey; methods of sampling; Sampling</p>	Understanding, Analyzing



	techniques-random, stratified random, mult-staged random and systematic random sampling; the role of sampling theory; properties of random samples.	
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COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**4<sup>th</sup> Semester (Honours)**

**Paper Name: Intermediate Microeconomics- II**

**Paper Code: ECO-HC-4016**

Course Outcome	Unit/ Topic	Blooms' taxonomy
<ul style="list-style-type: none"> <li>• This course is a sequel to Intermediate Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare, imperfect markets and topics under information economics.</li> </ul>	<p><b>Unit 1: General Equilibrium, Efficiency and Welfare</b></p> <p>(a) Exchange Economy, Consumption Allocation and Pareto Optimality; Edgeworth Box and Contract Curve: Equilibrium and Efficiency and Pure Exchange</p> <p>(b) Pareto Efficiency with Production: Concepts of PPF, Social Indifference Curves and Resource allocation.</p> <p>(c) Perfect Competition, Pareto Efficiency and Market Failure (Externalities and Public Goods, Property Right and Coase Theorem.)</p>	Understanding, Analyzing
	<p><b>Unit 2: Market Structure and Game Theory</b></p> <p>(a) Monopoly, pricing with Market Power; Degree of Monopoly, Price-Discrimination- Different Degrees; Multi-plant Monopoly, Peak-load Pricing</p> <p>(b) Monopolistic competition; Product Differentiation; Perceived and Proportionate Demand Curves; Price-Output Determination.</p> <p>(c) Oligopoly and Game Theory (Two Person Zero Sum Game, Basic Ideas and examples of non zero sum games, Prisoner's Dilemma), Applications of Game Theory in Oligopolistic Market (Cournot Equilibrium, Bertrand Equilibrium, Stackelberg Equilibrium)</p>	Understanding, Analyzing
	<p><b>Unit 3 : Market with Asymmetric Information</b></p> <p>Information Asymmetry, Adverse Selection, Moral Hazard, Signaling and Screening.</p>	Understanding, Analyzing

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**4<sup>th</sup> Semester (Honours)**

**Paper Name: Intermediate Macroeconomics- II**

**Paper Code: ECO-HC-4026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course is a sequel to Intermediate Macroeconomics I. In this course, the students are introduced to the long run dynamic issues like growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.</li> </ul>	<b>Unit 1: Economic Growth</b> Harrod-Domar model; Solow model: golden rule; technological progress and elements of endogenous growth.	Remembering and Analyzing
	<b>Unit 2: Microeconomic Foundations</b> a. Consumption: Keynesian consumption functions; Fishers’ theory of optimal intertemporal choice; life-cycle and permanent income hypotheses; rational expectations and random-walk of consumption expenditure b. Investment: determinants of business fixed investment; residential investment and inventory investment. c. Demand for money.	Understanding and Analyzing
	<b>Unit 3: Fiscal and Monetary Policy</b> Active or passive; monetary policy objectives and targets; rules versus discretion: time consistency; the government budget constraint; government debt and Ricardian equivalence.	Remembering and Analyzing.
	<b>Unit 4: Schools Macroeconomics Thoughts</b> Classicals; Keynesians; New-Classical and New- Keynesians.	

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BA in “Economics” (Honours) syllabus (CBCS)  
**4<sup>th</sup> Semester (Honours)**

**Paper Name: Introductory Econometrics**

**Paper Code: ECO-HC-4036**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course introduces basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.</li> </ul>	<p><b>Unit 1: Statistical Background</b> Normal distribution; chi-sq,t-and F-distributions; estimation of parameters; properties of estimators; testing of hypotheses: defining statistical hypotheses; distributions of test statistics;testing hypotheses related to population parameters; Type I and Type II errors; power of a test; tests for comparing parameters from two samples.</p>	Remembering, Understanding and Analyzing
	<p><b>Unit 2: Simple Linear Regression Model: Two Variable Case</b> Estimation of model by method of ordinary least squares; properties of estimators;Gauss-Markov theorem; goodness of fit;tests of hypotheses; scaling and units of measurement; confidence intervals; forecasting.</p>	Analyzing and Understanding.
	<p><b>Unit 3: Multiple Linear Regression Model</b> Estimation of parameters; properties of OLS estimators; goodness of fit-<math>R^2</math> and adjusted <math>R^2</math>; partial regression coefficients; testing hypotheses-individual and joint; functional forms of regression models; qualitative (dummy) independent variables.</p>	Understanding and Analyzing
	<p><b>Unit 4: Violations of Classical Assumptions</b> Consequences, Detection and Remedies Multicollinearity; heteroscedasticity; serial correlation</p>	Remembering and Analyzing
	<p><b>Unit 5 Specification Analysis</b> Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.</p>	

**COURSE OUTCOME**  
**BA in “Economics” (Honours) syllabus (CBCS)**  
**5<sup>th</sup> Semester (Honours)**

**Paper Name: Indian Economy-I**

**Paper Code: ECO-HC-5016**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Given the rapid changes taking place in India, the reading list will have to be updated annually.</li> </ul>	<b>Unit 1: Economic Development since Independence</b> Major features of the economy at independence; growth and development under different policy regimes-goals, constraints, institutions and policy frameworks; an assessment of performance-sustainability and regional contrasts; structural change, savings and investment.	Remembering and Understanding
	<b>Unit 2: Population and Human Development</b> Demographic trends and issues; education; health and malnutrition	Remembering and Understanding
	<b>Unit 3: Growth and Distribution</b> Trends and policies in poverty; inequality and unemployment	Remembering and Understanding
	<b>Unit 4: International Comparisons</b> With China, Pakistan, Bangladesh, Sri Lanka, Nepal and Vietnam.	Remembering and Understanding

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**5<sup>th</sup> Semester (Honours)**

**Paper Name: Development Economics I**

**Paper Code: ECO-HC-5026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.</li> </ul>	<p><b>Unit 1: Conceptions of Development</b> Alternative measures of development documenting the international variations in these measures, comparing development trajectories across nations and within them.</p>	Understanding, Analyzing
	<p><b>Unit 2: Growth Models and Empirics</b> The Harrod-Domar Model, the Solow Model and its variants, endogenous growth models and evidence on the determinants of growth.</p>	Understanding, Analyzing
	<p><b>Unit 3: Poverty and Inequalities: Definitions, Measures and Mechanisms</b> Inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.</p>	Understanding, Analyzing
	<p><b>Unit 4: Political institutions and the Functioning of the State</b> The determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country differences in the functions of the state institutions; state ownership and regulation; government failures and corruption.</p>	Understanding, Analyzing

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**5<sup>th</sup> Semester (Honours)**

**Paper Name: Money and Financial Markets**

**Paper Code: ECO-HE-5026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.</li> </ul>	<b>Unit 1: Money</b> Concept, functions of money; concept of money supply and its measurement; money multiplier theory, RBI’s approach to money supply.	Remembering and Understanding
	<b>Unit 2: Financial Institutions, Markets Instruments and Financial Innovations</b> Meaning and types of financial institutions, nature and role of financial institutions; financial markets: definitions and types- money market and capital market, their characteristics and functions, call money market, treasury bill market, commercial bill market including commercial paper and certificates of deposits, government securities market, primary and secondary markets for securities, financial sector reforms in India, financial derivative-meaning, types, distinctive features of financial derivatives and its benefits.	Remembering and Understanding

**COURSE OUTCOME**  
**BA in “Economics” (Honours) syllabus (CBCS)**  
**5<sup>th</sup> Semester (Honours)**

**Paper Name: Public Finance**  
**Paper Code: ECO-HE-5036**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>• This course is a non-technical overview of government finances with special reference to India. The course does not require any prior knowledge of economics. It will look into the efficiency and equity aspects of taxation of the centre, states and the local governments and the issues of fiscal federalism and decentralisation in India. The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism.</li> </ul>	<p><b>Unit 1: Theory</b></p> <p>1. Normative theory of Public Finance- Nature and Scope: Allocation Function, Distribution Function and Stabilization function. Coordinating the functions.</p> <p>2. Public Goods and their characteristics. Free Rider Problem and Market Failure, Externalities vis-à-vis Public Good.</p> <p>3. Direct and Indirect Tax. Concepts of taxation: tax rate, buoyancy and elasticity of a tax. Proportional, Progressive Taxation. Benefit Principle and Ability to Pay Theory.</p>	<p>Remembering and Understanding</p>
	<p><b>Unit 2 : Issues from Indian Public Finance</b></p> <p>4. Fiscal Policies: Definition and Objectives. Instruments of Fiscal Policy. Adopting Monetary Policy to complement Fiscal Policy: The Indian Experience.</p> <p>5. Indian Tax System. Direct Taxes: Income Tax, Corporate Tax, Customs Duty etc. Reforms in the Indirect Tax Structure: Goods and Service Tax.</p> <p>6. Structure of the Public Budget Types of Deficits and their significance: Revenue Deficit, Fiscal Deficit and Primary Deficit.</p> <p>7. Fiscal Federalism in India: Principles of Fiscal Devolution, Horizontal and Vertical Fiscal Balance. Federal Finance and the Finance Commission.</p> <p>8. State and Local Finances. The State Subjects and its Budget. Fiscal decentralization: Role of Municipalities and Gaon Panchayats</p>	<p>Understanding and Analyzing</p>



**COURSE OUTCOME**  
 BA in “Economics” (Honours) syllabus (CBCS)  
**6<sup>th</sup> Semester (Honours)**

**Paper Name: Indian Economy II**

**Paper Code: ECO-HC-6016**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. Given the rapid changes taking place in the country, the reading list will have to be updated annually.</li> </ul>	<b>Unit 1: Macroeconomic Policies and Their Impact</b> Fiscal Policy; trade and investment policy; financial and monetary policies; labour regulation.	Understanding, Analyzing
	<b>Unit 2: Policies and Performance in Agriculture</b> Growth; productivity; agrarian structure and technology; capital formation; trade; pricing and procurement	Understanding, Analyzing
	<b>Unit 3 Policies and Performance in Industry</b> Growth; productivity; diversification; small scale industries; public sector; competition policy; foreign investment.	Understanding, Analyzing
	<b>Unit 4: Trends and Performance in Services</b>	

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**6<sup>th</sup> Semester (Honours)**

**Paper Name: Development Economics-II**

**Paper Code: ECO-HC-6026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This is the second module of the economic development sequence. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.</li> </ul>	<p><b>Unit 1: Demography and Development</b> Demographic concepts; birth and death rates, age structure, fertility and mortality; demographic transitions during the process of development; gender bias in preferences and outcomes and evidence on unequal treatment within households; connections between income, mortality, fertility choices and human capital accumulation; migration.</p>	Remembering Understanding and Analyzing
	<p><b>Unit 2: Land, labor and Credit Markets</b> The distribution of land ownership; land reform and its effects on productivity; contractual relationships between tenants and landlords; land acquisition; nutrition and labor productivity; informational problems and credit contract; microfinance; inter-linkages between rural factor markets.</p>	Remembering Understanding and Analyzing
	<p><b>Unit 3: Individuals, Communities and Collective outcomes</b> Individual behavior in social environments, multiple social equilibria; governance in organizations and in communities; individual responses to organizational inefficiency.</p>	Remembering Understanding and Analyzing
	<p><b>Unit 4: Environment and Sustainable Development</b> Defining sustainability for renewable resource; a brief history of environmental change; common-pool resources; environmental externalities and state regulation of the environment; economic activity and climate change.</p>	Remembering Understanding and Analyzing

	<b>Unit 5: Globalization</b> Globalization in historical perspective; the economics and politics of multilateral agreement; trade, production patterns and world inequality; financial instability in a globalized world.	Understanding and Analyzing
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COURSE OUTCOME

BA in “Economics” (Honours) syllabus (CBCS)

**6<sup>th</sup> Semester (Honours)**

**Paper Name: Environmental Economics**

**Paper Code: ECO-HE-6016**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments. Selected topics on international environmental problems are also discussed.</li> </ul>	<b>Unit 1: Introduction</b> Basic concepts; Environment, Ecology and the Ecosystem. Definition and scope of environmental economics. Interaction between the environment and the economy, environmental economics and ecological economics, environmental economics and resource economics. Review of microeconomics and welfare economics; the utility function, social choice mechanism, the compensation principle and the social welfare function (concepts only).	Remembering and Understanding
	<b>Unit 2: The Theory of Externalities</b> Pareto optimality or Pareto efficiency. Externalities: meaning and types of externality, market failure: meaning, market failure in the presence of externalities; market failure and public goods, is environment a public good? Property rights and the coase theorem.	
	<b>Unit 3: The Design and Implementation of Environmental Policy</b> Environmental Policies: an overview; Nonmarket and market based instruments of Environmental Policy: command and control(CA) approach, economic instruments like pigovian taxes and effluent fees,	Applying and Analyzing

	<p>tradable permits and mixed instrument. Monitoring and Enforcement: What is monitoring and enforcement? Penalties cost of abatement. Damages from pollution. Incentives to sources to comply with environmental regulations.</p>	
	<p><b>Unit 4: International Environmental Problems</b>  Nature of environmental problems: transboundary pollution-climate change, global warming, ozone depletion and bio-diversity loss; trade and environment: pollution heaven hypothesis.</p>	<p>Understanding and Applying</p>
	<p><b>Unit 5: Measuring the Benefits of Environmental Improvements</b>  Non-Market values: use and non-use values and optional values, measurement methods: Direct method-contingent valuation and indirect method-hedonic pricing methods, value of statistical life and their applications and limitations.</p>	<p>Applying and Analyzing</p>
	<p><b>Unit 6: Sustainable Development</b>  Conventional development model: a critique, Alternative approach: Sustainable Development and its origin, objectives of Sustainable Development, Approaches to Sustainable Development: weak sustainability, strong sustainability, Safe minimum standard approach, ecological perspective and social perspective, Rules and indicators of Sustainable Development.</p>	<p>Remembering and Analyzing</p>

COURSE OUTCOME  
BA in “Economics” (Honours) syllabus (CBCS)  
**6<sup>th</sup> Semester (Honours)**

**Paper Name: International Economics**

**Paper Code: ECO-HE-6026**

Course Outcome	Unit/ Topic	Bloom’s Taxonomy
<ul style="list-style-type: none"> <li>This course develops a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy. It then builds on the models of open economy macroeconomics developed in courses 08 and 12, focusing on national policies as well as international monetary systems. It concludes with an analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.</li> </ul>	<p><b>Unit 1: Introduction</b> What is international economics about?, subject matter of International Economics, An overview of world trade-its changing pattern.</p>	Understanding and Analyzing
	<p><b>Unit 2: Theories of International Trade</b> The Ricardian theory-comparative advantage, Heckscher-Ohlin model, specific factors model, new trade theories- Leontief Paradox, factor-intensity reversal, international trade in the context of 26 economies of scale and imperfect competition, technological gap and product cycle theories; the Locational theory international trade; multinational enterprises and international trade.</p>	Understanding and Analyzing
	<p><b>Unit 3: Trade Policy</b> Instruments of trade policy-tariff and quota- partial equilibrium analysis; political economy of trade policy- free trade vs. protection; controversies in trade policy.</p>	Understanding and Analyzing
	<p><b>Unit 4: International Macroeconomic Policy</b> Fixed versus flexible exchange rates; international monetary systems- Gold Standard, interwar period, Bretton-Woods system, European Monetary system; financial globalization and financial crises</p>	Understanding and Analyzing

COURSE OUTCOME  
BA in Economics (Generic) syllabus (CBCS)  
1<sup>st</sup> Semester (Generic)

**Paper Name: Principles of Microeconomics–I**

**Paper Code: ECO-HG-1016**

Course Outcome	Unit/ Topic	Bloom's Taxonomy Level
<p>After the completion of this course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Acquaint with the basic principles of Microeconomic Theory.</li> <li>• Understand how microeconomic concepts can be applied to analyse real-life situations.</li> <li>• Gain knowledge on consumer and producer behavior.</li> <li>• Understand the concept of market forms.</li> </ul>	<p><b>Unit I: Introduction:</b> a. Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. b. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. c. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus. d. Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities.</p>	Remember, Understand
	<p><b>Unit II: Consumer Theory:</b> Budget constraint, concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects; consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint.</p>	Remembering, Understand
	<p><b>Unit III: Production and Costs:</b> a. Production: behavior of profit maximizing firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition. b. Costs: costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses, short run industry supply curve, economies and diseconomies of scale, long run adjustments.</p>	Remembering, Understand
	<p><b>Unit IV: Perfect Competition:</b> a. Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. b. Welfare: allocative efficiency under perfect competition.</p>	Remembering, Understand

COURSE OUTCOME  
BA in Economics (Generic) syllabus (CBCS)  
2<sup>nd</sup> Semester (Generic)

**Paper Name: Principles of Microeconomics–II**

**Paper Code: ECO-HG-2016**

Course Outcome	Unit/Topic	Bloom's Taxonomy Level
<p>After the completion of this course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Gain knowledge on different market forms.</li> <li>• Understand the concept on pricing of factors.</li> <li>• Develop understanding on the concept of market failure.</li> </ul>	<p><b>Unit I: Market Structures:</b>            a. Theory of a Monopoly Firm            Concept of imperfect competition; short run and long run price and output decisions of a monopoly firm; concept of a supply curve under monopoly; comparison of perfect competition and monopoly, social cost of monopoly, price discrimination; remedies for monopoly: Antitrust laws, natural monopoly.            b. Imperfect Competition            Monopolistic competition: Assumptions, short run and long run price and output determinations under monopolistic competition,            Oligopoly: assumptions, overview of different oligopoly models, contestable markets.</p>	<p>Remembering, Understand</p>
	<p><b>Unit II: Factor pricing:</b>            Demand for a factor input in a competitive factor market, supply of inputs to a firm, market supply of inputs, equilibrium in a competitive factor market. Factor markets with monopsony power.</p>	<p>Remembering, Understand</p>
	<p><b>Unit III: Market Failure</b>            Efficiency of perfect competition, Sources of market failure.            Externalities and market failure, public goods and market failure, markets with asymmetric information (Ideas only).</p>	<p>Remembering, Understand</p>

COURSE OUTCOME  
BA in Economics (Generic) syllabus (CBCS)  
**3<sup>rd</sup> Semester (Generic)**

**Paper Name: Principles of Macroeconomics–I**

**Paper Code: ECO-HG-3016**

Course Outcome	Unit/ Topic	Bloom's Taxonomy Level
<p>After the completion of this course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Acquaint with the basic concepts of Macroeconomics.</li> <li>• Understand how Macroeconomics deals with the aggregate economy.</li> <li>• Gain knowledge on the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP and money.</li> <li>• Get insights on monetary and fiscal policy</li> </ul>	<p><b>Unit I: Introduction:</b> What is macroeconomics? Macroeconomic issues in an economy</p>	Remembering, Understand
	<p><b>Unit II: National Income Accounting:</b> Concepts of Income, Domestic Income and National Income; GDP and NDP at Market Price and Factor Cost, measurement of national income and related aggregates; nominal and real income</p>	Remembering, Understand
	<p><b>Unit III: Determination of GDP:</b> Actual and potential GDP; aggregate expenditure; consumption function; investment function; equilibrium GDP; concepts of MPS, APS, MPC, APC; autonomous expenditure; Concept of multiplier.</p>	Remembering, Understand, Analyse
	<p><b>Unit IV: National Income Determination with Government Intervention and Foreign Trade:</b> Fiscal Policy: impact of changes in government expenditure and taxes; net exports function; net exports and equilibrium national income.</p>	Remembering, Understand, Analyse
	<p><b>Unit V: Money in a Modern Economy:</b> Concept of money in a modern economy; monetary aggregates; demand for money; quantity theory of money; liquidity preference and rate of interest; money supply and credit creation; monetary policy.</p>	Remembering, Understand



COURSE OUTCOME  
BA in Economics (Generic) syllabus (CBCS)  
**4<sup>th</sup> Semester (Generic)**

**Paper Name: Principles of Macroeconomics–II**

**Paper Code: ECO-HG-4016**

Course Outcome	Unit/ Topic	Bloom's Taxonomy Level
After the completion of this course, the students will be able to: <ul style="list-style-type: none"> <li>• Acquaint with the basic concepts of Macroeconomics.</li> <li>• Understand how Macroeconomics deals with the aggregate economy.</li> <li>• Gain knowledge on the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP and money.</li> <li>• Get insights on monetary and fiscal policy</li> </ul>	<b>Unit I: IS-LM Analysis:</b> Derivations of the IS and LM functions; IS-LM and aggregate demand; shifts in the AD curve	Remembering, Understand
	<b>Unit II: GDP and Price Level in Short Run and Long Run:</b> Aggregate demand and aggregate supply; multiplier Analysis with AD curve and changes in price levels; aggregate supply in the SR and LR.	Remembering, Understand
	<b>Unit III: Inflation and Unemployment:</b> Concept of inflation; determinants of inflation; relationship between inflation and unemployment: Phillips Curve in short run and long run.	Remembering, Understand, Analyse
	<b>Unit IV: Balance of Payments and Exchange Rate:</b> Balance of payments: current account and capital account; market for foreign exchange; determination of exchange rate.	Remembering, Understand

**COURSE OUTCOME**

**M.A. IN ECONOMICS**

**1st Semester**

**PAPER NAME- Principles of Microeconomics**

**PAPER CODE- ECO-1016**

Course Outcome	Unit/Topic	Bloom's taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>Examine the theoretical developments in the working of the firm producing a single product and multiple products</li> <li>Analyze the behavior of the consumer</li> <li>Explain and analyze the working of markets operating at differing levels of competition. To differentiate and analyze the various financial statements of a firm.</li> </ul> <p>Compare and contrast the managerial theories of the firm with the traditional theories</p>	<p><b>Unit 1: Theory of Production and Cost</b>                      Production function and related concepts–Isoquants and Substitution between Factors–Elasticity of Substitution–Returns to Scale and Returns to a Factor–Technical Progress and Production Function– Forms of Production Function; Cobb-Douglas, CES and Fixed coefficient Type–the Ideas of Partial and Total Factor Productivity-Single Decision of a Firm; Choice of Optimal Factor Combination–Expansion Path–Derivation of Cost Function from Production Function–Multi-product Firm: production Efficiency Locus, Production Possibility Frontier and Choice of Optimal Combination of Output of Products</p>	Understanding, remembering
	<p><b>Unit 2: Analysis of Consumer's Choice</b>                      A Review of Indifference Curve and Revealed Preference Approach–Violation of the Premises of Indifference curve Approach: Stationary and Lexicographical Ordering–Indirect Utility Function– Dual Properties of Utility and Expenditure Functions, Ray's Identity-ordinary and compensated demand curves and measures of welfare change–Linear Expenditure System.</p>	Understanding, analyzing
	<p><b>Unit-3: Market Structure and Pricing of Products</b>                      A Review of Perfect Competition Equilibrium–Monopoly and its Regulation–Monopolistic Competition: Price-Output Equilibrium–Duopoly Models of Cournot, Bertrand and, Stackelberg– Kinked Demand Curve Model of Oligopoly– Collusive Oligopoly: Price Leadership Models, Contestable Markets.</p>	Understanding, remembering
	<p><b>Unit-4: Business accounts and Managerial Theories of the Firm</b>                      Profit and loss account, balance sheet and cash flow statements of a firm, break even analysis,; A critique of the Traditional Theories of Firm- Contributions of Baumal, Morris and Williamson to managerial Theories of the Firm.</p>	Understanding, Analyzing

**COURSE OUTCOME**  
**M.A. IN ECONOMICS**  
**1st Semester**  
**PAPER NAME- Elements of Macroeconomics**  
**PAPER CODE- ECO-1026**

<b>Course Outcome</b>	<b>Unit/Topic</b>	<b>Bloom's taxonomy</b>
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Elaborate on the basics of National Income accounting and Income-Employment Determination Process</li> <li>• Interpret the complications of macroeconomic policy making in closed and open economy frameworks</li> <li>• Link macroeconomic theory to micro foundation of consumers' choice and firms' investment decisions</li> </ul>	<p><b>Unit-1: A Review of Aggregate Income and its Determination</b>            The Ideas of Income, Domestic Income and National Income; GDP as a Production Total and its sectoral composition, NDP as an Income Total ,the Circular Flow and GDP as an Expenditure Total; Introduction to Equilibrium and Dis equilibrium in the Macro-economy; Classical Model of Full Employment; Keynes Criticism of Classical theory, The Simple Keynesian Framework and the Multiplier</p>	Remembering, analyzing
	<p><b>Unit-2: Income Determination with Money Market</b>            Liquidity Preference and the Rate of Interest ;the IS-LM frame work and Policy Analysis ,IS-LM Model with Flexible Prices ;Real Balance Effect and Patinkin's Full Employment Equilibrium</p>	Understanding, analyzing
	<p><b>Unit-3: Consumption Function</b>            The Consumption Function Puzzle; The Relative Income Hypothesis; The Permanent Income Hypothesis; The Life Cycle Hypothesis; Random Walk Hypothesis; Consumption Theories and Policy Implications</p>	Understanding, remembering
	<p><b>Unit-4: Investment and Business Cycles</b>            Firm Business Investment: The Rental Price of Capital, the Cost of Capital and Determination of Investment; Residential and Inventory Investment: nature and determinants; the Accelerator Model; Business Cycles as Multiplier ,Accelerator ,Interaction Process</p>	Understanding
	<p><b>Unit-5: Open Economy Macroeconomics</b>            The Exchange rate and its Determination; Balance of Payment and its Adjustment under Fixed and Flexible Exchange Rate Regimes, Effectiveness of Devaluation; The Open Economy IS-LM Model; Capital Flow and the Mundell - Fleming Model; Foreign Trade Multiplier</p>	Understanding, analyzing

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**1st Semester**  
**PAPER NAME - Quantitative Orientation**  
**PAPER CODE- ECO-1036**

Course Outcome	Unit/Topic	Bloom's taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Elaborate on the use of basic mathematical tools such as matrix, differentiation and integration in economics.</li> <li>• Discuss how these tools can be applied in economics.</li> <li>• While going through this course, students will have an idea of using the quantitative technique in Micro economics, Macro economics and other fields of economics.</li> <li>• Prepare the student to analyze economic theory in an empirical way.</li> </ul>	<p><b>Unit-1: Classical Optimization</b>            Unconstrained maxima and minima with a single explanatory variable– applications to cost minimization ,revenue maximization, tax revenue maximization, profit maximization and equilibrium of firm, Unconstrained maxima and minima with more than one explanatory variables applications to discriminatory monopoly, Multiproduct equilibrium, Multiplant equilibrium, equilibrium of firm with advertisement cost and subsidy</p>	Understanding, analyzing
	<p><b>Unit- 2: Optimization with Equality Constraint</b>            Optimization with quality constraints, Lagrange's multiplier method–application to consumer's equilibrium and producer's equilibrium in factor market</p>	Understanding
	<p><b>Unit- 3: Integration</b>            Applications relating to derivation of total functions from marginal functions, estimation of consumer's surplus, producer's surplus, problems            Relating to investment, capital formation and derivation of simple growth process (Domar).</p>	Understanding, analyzing
	<p><b>Unit-4: Matrix Algebra and its Applications</b>            Rank, Norm and Trace of a matrix, Partition matrix, Matrix inversion, Structure of input-Output table, Static Leontief system–Domestic and External sector</p>	Analyzing, remembering
	<p><b>Unit- 5: Probability: Basic Ideas</b>            Axiomatic Definition and derivation of Basic Probability Rules–Conditional Probability, Baye's Theorem (Concept only)–Random variable – Mathematical Expectation and Moments relating to Discrete random variables</p>	Understanding
	<p><b>Unit- 6: Theoretical Probability Distributions</b>            Binomial, Poisson and Normal Distributions with Properties– Moment Generating Function– The Central Limit Theory (without Proof).</p>	Understanding, analyzing

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**1st Semester**  
**PAPER NAME - Elements of Development Economics**  
**PAPER CODE- ECO-1046**

Course Outcome	Unit/Topic	Bloom's taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>Get an insight in to the real meaning of development, and endowments of economics and political economy influence the allocation of resources and can facilitate, or under certain situations, hamper the reduction of poverty, inequality and unemployment in a given society.</li> <li>Interpret the various development strategies and theories to assess the different development paths followed by different societies of the world. This can assist them in answering certain basic questions as to why some countries grow at a fast rate,</li> </ul>	<p><b>Unit- 1: Development and its Measurement</b>            Problems in Defining Economic Development, Per Capita Income as an Index of Development, Alternative Measures of Development Gap: HDI, GDI and related indices.</p>	<p>Understanding, remembering</p>
	<p><b>Unit- 2: Poverty and Inequality</b>            Poverty: Concepts and Measurement, Income Inequality: Axioms, Index and Measures, Redistribution with Growth</p>	<p>Understanding, remembering</p>
	<p><b>Unit- 3: Classical Development Theories</b>            Theories of Evolution of a Capitalist Economy: Classical, Marx and Schumpeter, Theories of Persistence of underdevelopment: The Vicious Circle Theory, The Stages of Growth: Rostow</p>	<p>Understanding, remembering</p>
	<p><b>Unit- 4: Development Strategies</b>            Big Push: Rosenstein-Rodan, Balanced Growth: Nurkse, Unbalanced Growth: Hirschman, Critical Minimum Efforts: Leibenstein.</p>	<p>Understanding, remembering</p>
	<p><b>Unit-5: Dualistic Pattern of Development</b>            Unlimited Supply of Labour and the Dual Economy-Models of Arthur Lewis and Fei- Renis, Rural-Urban Migration: The Harris-Todaro Model, Core-Periphery Models-The Process of Cumulative Causation: Myrdal, Neo-Colonial Dependence Model</p>	<p>Remembering, understanding</p>
	<p><b>Unit- 6: Development Planning</b>            The Concept and Types of Planning, Rationale for Planning in a Developing Economy, The Planning Process: Projection of Macro Variables, Input-Output Models and Sectoral Projections, Project Evaluation and Social Cost-Benefit Analysis, Plan Failures, Market Versus Planning, Planning in a Market Oriented Economy, Plan Models in India</p>	<p>Remembering, understanding</p>

while others lag behind; what are the conditions that can promote growth, and what are the conditions that can hinder growth, among others.

- Explain the measurement issues relating to development, the development strategies taken place over the years in terms of changes in the definition of development, and the related methodological issues. The students also gain knowledge on the issues relating to the definition and measurement of poverty and inequality– be it inequality in terms of income, or inequality involving gender.

**COURSE OUTCOME****MA IN ECONOMICS****1st Semester****PAPER NAME - Statistical Software for Data Analysis and Presentation****(Value Added)****PAPER CODE- ECO-1054**

<b>Course Outcome</b>	<b>Unit/Topic</b>	<b>Bloom's taxonomy</b>
After the completion of the course, the students will be able to: <ul style="list-style-type: none"><li>• To describe the use of computer for presenting and summarizing data. Students can learn appropriate use of diagrammatical and tabular presentation of information.</li><li>• The use of computer and other statistical software in computing basic statistical tools and other relevant statistical techniques also covered in this course.</li><li>• There will be hands-on training for each student with individual computer.</li></ul>	<b>Unit 1: Presentation of data</b> Diagrammatic Presentation-One dimensional–single, subdivided, multiple deviation; Two dimensional-histogram, pie diagram; Three dimensional- rectangular, cube; Pictograms and cartograms, scatter, line and radar diagrams; Tabular Presentation-Single; Double, Multiple	Understanding, analyzing
	<b>Unit 2: Basic statistics</b> Frequency, Summation, maximum, Minimum, Mean, Median, Mode, standard deviation, skewness	Understanding, analyzing
	<b>Unit3: Statistical relations</b> Covariance; correlation- Bivariate, Partial, Rank, Correlation matrix; Simple Linear regression	Understanding, analyzing

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**2nd Semester**  
**PAPER NAME - Advanced Microeconomics**  
**PAPER CODE- ECO-2016**

Course Outcome	Unit/Topic	Bloom's taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>To discuss how an individual could take decision under uncertain situation about current and future conditions which is a more realistic situation in our day to day life.</li> <li>Against the typical assumptions of complete knowledge about market, in this course discusses in complete information about the market by the agents (which is of course more real).</li> <li>While going through this course student could quantify the risk involve in different real life situation and know how decision could be made that will maximize their satisfaction.</li> <li>How can the welfare of society be enhanced by considering the character of goods and social choice is also discussed in this course</li> </ul>	<p><b>Unit 1: Inter-temporal Choice and Choice under Uncertainty</b>            Discounting and Present Value–Inter-temporal Consumption Decision–Inter-temporal Production Decision–Evaluation of Investment Projects–Determination of the Rate of Interest; Attitude towards Risk–Expected Utility–Measures of Risk Aversion–Certainty Equivalence and the Cost of Risk</p>	<p>Understanding, remembering</p>
	<p><b>Unit2: Economics of Insurance and Information</b>            Economics of Insurance–Asymmetric Information and Adverse Selection–Moral Hazard–Signaling and Screening–the Principal Agent Problem</p>	<p>Understanding, remembering</p>
	<p><b>Unit 3: Determination of Factor Prices</b>            Pricing of Factors under Perfect Competition–Factor Share and Technical Progress–Backward Bending Supply Curve of Labour–Monopsony</p>	<p>Understanding, remembering</p>
	<p><b>Unit 4: General Equilibrium</b>            Partial Versus General Equilibrium Approaches–Walrasian General Equilibrium System: Existence, Stability and Uniqueness of the Equilibrium–Tatonnement and Non–tatonnement Process–Arrow and Debreure-specification of the Walrasian Economy–Idea of Fixed Point Theorems and their Application to Existence Proof–Uncertainty and the Contingent Markets–Ideas of Computable General Equilibrium</p>	<p>Understanding, remembering</p>
	<p><b>Unit 5: Welfare Economics</b>            Pareto Optimality–The Fundamental Theorems of Welfare Economics–Market Failure: Externality and Public Good–Welfare Effects of Non-price Allocations and Price Control–Problem of Welfare Maximization: Compensation Principle, Social Welfare Function–Social Choice: Contributions of Arrow and Sen.</p>	<p>Remembering, understanding</p>



**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**2nd Semester**  
**PAPER NAME - Macroeconomic Theory and Policy**  
**PAPER CODE- ECO-2026**

Course Outcome	Unit/Topic	Bloom's taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Evaluate the nuance of different schools of thought and the implications thereof for macroeconomic policy formulation</li> <li>• Extend the ideas of to the working of the wider Financial Economy</li> <li>• Enumerate the latest advances in theories of growth and business cycles</li> </ul>	<p><b>Unit 1: Money, Inflation and Unemployment</b>  Inventory and Portfolio Balance Approaches to Demand for Money; Friedman's Restatement of the Quantity Theory of Money; Inflation-Unemployment Trade-off: the Philips Curve Analysis; Monetarists "Criticism of the trade-off, Natural Rate of Unemployment and the Long Run ;Adaptive versus Rational Expectations, New Classical School and the Policy Ineffectiveness Hypothesis</p>	<p>Understanding, remembering</p>
	<p><b>Unit 2: Supply of Money</b>  Supply of Money and its Components, Inside and Outside Money, Determinants of Money Supply, High-powered Money, Money Multiplier, Money Supply Determination in an Open Economy</p>	<p>Understanding, remembering</p>
	<p><b>Unit 3: Advances in Business Cycle Theory</b>  Theory of Real Business Cycles, Interpretation of the Labour Market, Importance of Technology Shocks, Neutrality of Money; New Keynesian Economics: Manu Cost Model, Recessions as Coordination Failure</p>	<p>Understanding, remembering</p>
	<p><b>Unit 4: Growth Theory</b>  Determinants Growth ,Harrod- Domor Model: Instability of Equilibrium, Solow's Neoclassical Model and Steady State Growth, the Alternative Theory: Kaldor's theory of Distribution and Growth</p>	<p>Understanding, remembering</p>
	<p><b>Unit 5: Further Issues in Growth Theory</b>  The Convergence Debate, Role of Technical Progress ,Learning by Doing, Role of Human Capital, Endogenous Growth Theories ,Accounting for Sources of Economic Growth, Overlapping Generation Models</p>	<p>Remembering, understanding</p>

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**2nd Semester**  
**PAPER NAME – Quantitative Tools**  
**PAPER CODE- ECO-2036**

Course Outcome	Unit/Topic	Bloom's taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• To analyze the classical equilibrium analysis with maximization of profit and minimization of cost.</li> <li>• To apply the techniques of game theory for solving various economic problems.</li> <li>• To assess the techniques of sampling and hypothesis testing for using in research purposes.</li> </ul>	<p><b>Unit- 1: Calculus for Dynamic Analysis</b>            First and second order differential equation and its solutions– application to dynamic stability of market and simple growth process(Harrod-Domar),First order difference equation and its solution application of difference equation– lagged market model (Cobweb) and Harrod's model of growth; Optimal Control Theory-            Basic Idea–Procedure–A few illustrative examples</p>	<p>Analyzing, understanding</p>
	<p><b>Unit- 2: Optimization with inequality constraint</b>            Linear programming, General formulation            Transportation problem, diet problem and production problem– Simplex method of solution for well behaved and ill behaved functions (two variables, two constraints only)– Concept of duality, Formulation of dual equations.</p>	<p>Understanding, analyzing</p>
	<p><b>Unit- 3: Game Theory</b>            An overview of game theory, Nash equilibrium-economic application, Prisoner's dilemma-economic application, Repeated games, Finitely Repeated Prisoner's Dilemma and Infinitely repeated Prisoner's Dilemma.</p>	<p>Analyzing, understanding</p>
	<p><b>Unit- 4: Sampling and Estimation</b>            Concept of Sampling Distribution and Standard Error of a Statistic– Methods of Estimation–            Principles of Moments, Least Square and Maximum Likelihood(Concept only)</p>	<p>Understanding, analyzing</p>
	<p><b>Unit- 5: Statistical Inference</b>            Testing of Hypothesis: Type I and Type II Errors, One-tailed and Two-tailed Tests– Test based on Standard Normal, t and Chi-Square Distributions.</p>	<p>Understanding, analyzing</p>

**COURSE OUTCOME  
MA IN ECONOMICS  
2nd Semester**

**PAPER NAME - Development Economics: Theory and Practice  
PAPER CODE- ECO-2046**

<b>Course Outcome</b>	<b>Unit/Topic</b>	<b>Bloom's taxonomy</b>
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Identify the various sources of financing of economic development, the associated theoretical models suggesting the objective and the practical outcomes.</li> <li>• Analyze the linkages between trade and development and environment and development</li> <li>• Analyze the effects of education and health in the development outcomes of a society</li> <li>• Illustrate the role of institutions in development</li> </ul>	<p><b>Unit- 1: Financing of Development</b> Domestic Sources: Private Savings, Taxation, Financing by Money Creation and its Effects, The Dual Gap Analysis: Saving-Investment Gap and the Foreign Exchange Gap, Foreign Borrowing and the Debt Serving Problem, Private Foreign Investment: Portfolio and Direct Investment, Effects on Host and Investing Countries– Direct Investment and Exploitation</p>	<b>Understanding, remembering</b>
	<p><b>Unit- 2: Trade and Development</b> Trade as an Engine of Growth, Trade and Aid, Gains from Trade, Terms of Trade and LDCs: Prebisch, Singer and Myrdal's Views.</p>	<b>Understanding, remembering</b>
	<p><b>Unit- 3: Environment and Development</b> Environment and Economy Interdependence, Poverty and Environmental Degradation, The Concept of Sustainable Development, Micro Planning for Environmental and Eco-Preservation, Watersheds and Joint Forest Management, Role of State in Environmental Preservation</p>	Remembering, understanding
	<p><b>Unit- 4: Economics of Education</b> Education and Economic Development, Cost–Benefit Analysis of Education, Measurement of Costs, Measurement of Benefits, The Rate of Return of Investment in Education, Social Rate of Return to Investment in Education, Public and Private, Financing of Education: Criteria for Adequacy of Education Finance, Traditional as well as Modern Concept of Adequacy, Financing of Education and Equity</p>	Understanding, analyzing
	<p><b>Unit-5: Health and Economic Development</b> Health Care and Human Resource Development, Cost- Benefit Analysis of Health Care facilities, Cost-effectiveness Analysis of Health care Facilities.</p>	Understanding, remembering
	<p><b>Unit- 6: Role of Institutions in Development</b> Overview of growth models, Introducing institutions, Institutions as a determinant of growth, Institutional characteristics ,Pit falls o institutional reform</p>	Remembering, understanding

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**2nd Semester**  
**PAPER NAME - Quantitative Aptitude and Test of Reasoning**  
**(Value Added)**  
**PAPER CODE- ECO-2054**

<b>Course Outcome</b>	<b>Unit/Topic</b>	<b>Bloom's taxonomy</b>
After the completion of the course, the students will be able to: <ul style="list-style-type: none"> <li>• Practice skills for competitive examinations</li> </ul>	<b>Unit 1: Mathematical Reasoning</b> Number series–Time and Calendar– Clock related– Number related	Analyzing, remembering
	<b>Unit 2: Numerical Ability</b> Arithmetic– Profit and Loss –Ratio and Proportion– Simple and Compound Interest-Discount	Analyzing, understanding
	<b>Unit 3: Data Interpretation</b> Tabulation– Bar graphs– Pie charts–Line graphs	Understanding, analyzing
	<b>Unit 4: Logical Reasoning</b> Alphabet series–Analogies – Classification –Coding and Decoding– Arranging in Order– Letter Digit term	Understanding, remembering

**COURSE OUTCOME  
MA IN ECONOMICS  
3rd Semester  
PAPER NAME - Elements of Econometrics  
PAPER CODE- ECO - 3016**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Provide Econometric literacy to enable students to read technical literature in Economics</li> <li>• Elaborate the techniques for undertaking empirical research</li> <li>• Analyze and interpret the stochastic situation commonly countered in real life economic situations</li> </ul>	<p><b>Unit1: Classical Linear Regression</b></p> <p>The General Linear Regression Model– Quantitative and Qualitative Explanatory Factors–Least Square Assumptions– OLS Estimators and their Properties–The Coefficient of Determination–Some Results of Two and Three Variable Regression Models– Test of Hypothesis about Regression Coefficients– Prediction with the Linear Regression Equation.</p>	Remember, Understanding.
	<p><b>Unit 2: Further Topics in Linear Regression</b></p> <p>Consequences of Omission of Relevant Regressors and Inclusion of Irrelevant Regressors; Multicollinearity : Effects, Detection and Remedies, Dummy Variable Trap; Heteroscedasticity: Consequences, Tests and Remedy, Auto-correlated Disturbances: Consequences, Detection and Remedy</p>	Understanding, Analyze.
	<p><b>Unit 3: Introduction to Time Series Econometrics</b></p> <p>The Idea of a Stochastic Time Series– Stationary and Non-stationary–Simple Random Walk and Random Walk with a Drift–Unit Root: Dickey Fuller Tests–Spurious Regression–Integrated Series and Simple Co integration.</p>	Understanding, Analyze.
	<p><b>Unit 4: Introduction to Simultaneous Equation Model</b></p> <p>Structural and Reduced Forms–Simultaneity Bias–Informal Introduction to Identification Problem, Indirect Least Squares and Two Stage least Squares</p>	Understanding, Analyze.

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**3rd Semester**  
**PAPER NAME- Public Finance**  
**PAPER CODE- ECO- 3026**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Discuss the role of the state in Public Finance in terms of the various functions.</li> <li>• Interpret the phenomenon of total and partial market failure and prescribe potential corrections.</li> <li>• Execute various forms of voting rules as a means of more effective public intervention.</li> <li>• Analyze effects of subsidy under various preconditions.</li> <li>• Illustrate the Cost-Benefit Technique which can be applied to various social security issues.</li> <li>• Public Budgeting is analyzed in details and the implications of the various deficits can be interpreted.</li> <li>• Principles of fiscal federalism and a perspective of the relevant issues are examined</li> </ul>	<p><b>Unit-1 Role of the State in the Economy</b>  The role of the government in the economy- allocation, distribution, and stabilization functions. Criteria for policy evaluation- equity, economic efficiency, paternalism and individual freedom and their tradeoff. The welfare cost of inefficient output.</p>	<p>Remember, Understand.</p>
	<p><b>Unit-2: The Provision of Public Goods</b>  The nature of Public goods. Public Goods and market failure. The efficient provision of public goods. The Theory of Clubs, Inter-local competition and Tie bout Hypothesis. Inefficiency from externalities and its correction. Internalizing externalities: The Coase Theorem. Viability of government intervention</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit-3: The Theory of Public Choice</b>  Preferred political outcome of a voter and Downs "Rational Voter Hypothesis.</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit-4: Public Expenditure</b>  Public Expenditures on non-marketed goods, fixed-quantity subsidy for marketed goods and excise subsidy-their impact on allocation and distribution. Program Budgeting and Cost-effectiveness Analysis. Public Project Appraisal:  Cost-Benefit Analysis. Public expenditure on Health Care, Education and Retirement Security: Rationale and Emerging Issues.</p>	<p>Understanding, Analyze.</p>

	<p><b>Unit-5: Public Revenue</b>  Concepts of Tax Ratio, Buoyancy, and Elasticity of taxation, Tax Credit, Exemption and Deduction, and Taxable Capacity.  Excess burden-Lump sum Tax versus Price Distorting Tax, Efficiency Loss Ratio of a tax. Partial versus General Equilibrium Analysis: Incidence of Excise Taxes and General Sales Tax. The welfare cost of taxation. Goods and Services Tax (GST) and the Indian experience.</p>	Understanding, Analyze.
	<p><b>Unit-6: The Public Budget and Deficit Financing</b>  Structure of a public budget. Concepts of Budget Deficits Burden of Deficit Finance-Ricardian Equivalence Theorem. Deficit financing and the Capital market: <i>The Crowding Out Effect</i>. The Welfare Cost of Deficit Finance. Rationale and methods of reducing deficits.</p>	Understanding, Analyze.
	<p><b>Unit-7: Fiscal Federalism</b>  Principles of division of financial resources. Instruments of inter-government resource transfer. Horizontal and Vertical fiscal balance. Problems of Centre-State Financial Relations in India.</p>	Understanding, Analyze.

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**3rd Semester**  
**PAPER NAME- International Economics**  
**PAPER CODE- ECO-3036**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Analyze the International trade theories, changing pattern of international trade in view of developments in trade environments</li> <li>• Elaborate how different international trade policies undertaken by the trading nations</li> <li>• Illustrate the historical facts and present status of international trade relations among countries</li> </ul>	<p><b>Unit 1: International Trade Theories</b></p> <p>Factor Endowments and Trade: Heckscher - Ohlin Theory, Factor-Price Equalization Theorem and Income distribution- Stolper-Samuelson Theorem, The Specific-Factors Model.</p>	<p>Remember, Understand.</p>
	<p><b>Unit 2: Economic Growth and Changes in Trade</b></p> <p>Shifts in Demand: Engel Effects and Engel's Law; Factor Growth- Rybczynski Theorem; Technical progress and Trade; Technological Change and Trade: Technology as Factors of Production; New Products and the Product Cycle.</p>	<p>Remember, Understand.</p>
	<p><b>Unit 3: Economies of Scale, Imperfect Competition, and International Trade</b></p> <p>Monopolistic Competition and Trade- Economies of Scale and Comparative Advantage, Significance of Intra-industry Trade ,Economies of Reciprocal Dumping</p>	<p>Remember, Understand.</p>
	<p><b>Unit 4: International Trade Policy</b></p> <p>Tariff Analysis in General Equilibrium; Theory of Customs Unions; Export Barriers; Export Subsidies and Countervailing Duties, Dumping. Retaliation against Dumping; International Cartels.</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit 5: International Monetary Order</b></p> <p>International Monetary System—Gold Standard, Inter War Period, Bretton Woods System; Managed Flexibility, Floating Exchange Rate, Monetary Union, Optimum Currency Area,</p>	<p>Remember, Understand.</p>



	<p><b>Unit-6: International Debt Crisis</b> Dimensions of Debt Crisis, International capital Movement, Capital Transfer Process, Recycling of Petro-Dollars, Causes of Debt Crisis, Secondary Market for Debt of Developing Countries, Alternative Policy Options.</p>	<p>Understanding, Analyze.</p>
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**COURSE OUTCOME  
MA IN ECONOMICS  
3rd Semester**

**PAPER NAME - FINANCIAL SYSTEM  
PAPER CODE- ECO- 3046**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Analyze the financial system including its various components like markets, assets and institutions.</li> <li>• Estimate parameters like cash flow, annuity, net present value, rates of return etc.</li> <li>• Analyze the operation of the various instruments of the money market.</li> <li>• Expose the capital market which enables the students to explain the modalities of resource mobilization through various capital market assets.</li> <li>• Illustrate the trading in the stocks market and analyze the complexities of the derivative market.</li> <li>• Undertake valuation of both debt and equity instruments. They acquire the ability to analyze</li> </ul>	<p><b>Unit-1: The Financial System</b> The nature of credit, Financial system and its Components: <i>Instruments, Markets, Institutions and Services</i>, The Functional Perspective of the Financial System, Financial System in Economic Growth and Global Integration.</p>	Remember, Understand.
	<p><b>Unit-2: Inter temporal Value of Money</b> Time Value of Money, Future Value: Single Cash Flow, Multiple Cash Flows, Annuity, Present Value: Single Cash Flow, Multiple Cash Flows, Annuity, Present Value, Net Present Value, Rate of Return , Internal Rate of Return</p>	Understanding, Analyze.
	<p><b>Unit-3: The Money Market</b> Structure and functions, Instruments in the money market, Call Money Market and its participants, Volatility in Call Rates, Money Market Intermediaries: <i>The Discount and Finance House of India and Money Market Mutual Funds</i>, Liquidity Management Instruments in the Money Market</p>	Understanding, Analyze.
	<p><b>Unit-4: The Capital Market</b> The Capital market: Its nature and functions, Primary Capital Market: Instruments of resource mobilization-<i>Public Issues: IPO &amp; FPO, Right Issues, and Private Placement</i>, Resource mobilization from International Capital Market, Pricing of new issues: the Book Building process, Reverse Book Building and Green Shoe Option, Secondary Capital Market Secondary Capital Market: Organization, Management and Membership, Trading &amp; Settlement, <i>The Over the Counter</i></p>	Understanding, Analyze.

<p>profitability of such instruments as investment destination.</p>	<p><i>Exchange of India</i>, The Depository System and its operation, Stock Market Index-Method of calculating the index, Mutual Fund and its functional classification, Net Asset Value</p>	
	<p><b>Unit5: The Derivative Market</b>  Nature of the Derivative Market, Traders and Instruments in a derivative market, Trading Strategies: Hedging with Index futures, Speculation Strategies and Strategies for Arbitrage</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit-6: Valuation of Financial Assets</b>  Concept of Value, The valuation of debt instruments: bonds with maturity-Yield to Maturity, Current yield, Yield to Call, Deep Discount Bonds, Perpetual Bonds, Interest Rates and Bond Values, Valuing stock: Value of a Preference Share, Ordinary Shares: Single Period and Multi-Period Valuation, Linkage between Share Price, Earnings and Dividends, The significance of Price-Earnings Ratio (P/E)</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit-7: Banking Sector Operations and Management</b>  Overview of bank operations: Banks as financial intermediaries, Sources of Funds of banks, Uses of Funds by banks, Off-balance-sheet activities of banks, Regulation of banks: Capital Regulation, Operations Regulation, Bank Monitoring Measures under taken by Regulators, Issues relating to government bailout, Reforms in Banking Sector in India.</p>	<p>Understanding, Analyze.</p>

**COURSE OUTCOME  
MA IN ECONOMICS  
3rd Semester**

**PAPER NAME - ENVIRONMENTAL ECONOMICS  
PAPER CODE- ECO-3066**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the environmental issues with an interdisciplinary focus.</li> <li>• Analyze the working of the Environment and the Economy from the neoclassical and ecological perspective.</li> </ul>	<p><b>Unit-1: Environmental Economics as a sub discipline in Economics</b>            Environmental Economics–Scope and Nature- Environmental Economics, Ecological Economics and Resource Economics.            Basic Concepts: Natural Resources-Renewable and Non-Renewable, Market Failure, Externality, Property Rights, Transaction costs, Pigouvian Tax– Environment as Public Goods-Open Access– The Tragedy of Commons.            Global Environmental Issues- Climate Change, Loss of Biodiversity, Ozone Depletion, Pollution Havens-</p>	<p>Remember, understand.</p>
<ul style="list-style-type: none"> <li>• Interpret the issues related to the use of natural resources</li> <li>• Explain the various techniques of valuation of environmental goods and services.</li> <li>• Explore the relationship between environment and development.</li> </ul>	<p><b>Unit-2: Environment and the Economy- the neoclassical perspective</b>            Environment and the Economy: the neo-classical perspective-Role of natural environment on the economy-market as a provider of information on resource scarcity-price as an indicator of absolute, relative and emerging resource scarcity; Factor substitution possibilities, technical change-implications on resource scarcity and resource conservation. Economy and the environment-Neoclassical worldview.</p>	<p>Remember, Understand.</p>
	<p><b>Unit-3: Environment and the Economy- An ecological perspective</b>            Environment and the Economy: An ecological perspective–Eco system structure, Eco system function-materials recycling-energy and the rmdynamics, Ecological Succession, Ecology and its implications for the economy.</p>	<p>Understanding, Analyze.</p>

	<p><b>Unit– 4: Economics of Natural Resources</b>  Economic Issues relating to use of Non-renewable Resources, Optimal Depletion–Issues relating to Renewable resources, Sustainable exploitation, Common Property Resources– Case studies (e.g Sacred groves)</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit–5: Valuation of Environmental Goods and Services</b>  Demand for environmental goods–ordinary goods Vs environmental goods-Willingness to pay and willingness to accept-Use and Nonuse Values; measuring demand-revealed preference and stated preference. Methods for measuring benefits of environmental improvement–the market pricing approach, the replacement cost approach. Hedonic Pricing approach-valuation of health risks; Household Production Function Approach-Aversive expenditure, Travel Cost method; Contingent Valuation Method</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit–6: Pollution Control</b>  Pollution Prevention, Control and Abatement–Command and Control and Market Based Instruments–Taxes Vs Tradable Permits; International Conventions and Protocols; Environmental Policy in India- Environmental Impact Assessment.</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit–7: Environment and Development</b>  Environment Development Tradeoff: Population, development and environmental degradation in the developing world-Poverty and Environment–Affluence and its contribution to environmental degradation Sustainable Development-Hartwick-Solow Approach, ecological economics approach-safe minimum standard approach; Sustainable National Income Accounting.</p>	<p>Understanding, Analyze.</p>

**COURSE OUTCOME****MA IN ECONOMICS****4th Semester****PAPER NAME - INDIAN ECONOMICS IN THE GLOBAL CONTEXT****PAPER CODE- ECO – 4016**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>Analyze the concept and evolution of the global economy, and the key issues involved in the process.</li> <li>Provide an insight into the economic history of India and place it in the global prospective.</li> <li>Examine and analyze the process and outcome of India's economic reforms.</li> <li>It is also intended to help students in their preparation for competitive exams.</li> </ul>	<p><b>Unit– 1: Global Economy: Concept and Evolution</b> Global Economy-Nature of Global Economy; Emergence and evolution of the Global Economy-Pre-Industrial Revolution to the Present Times.</p>	Remember, Understand.
	<p><b>Unit– 2: Global Economy: Key Issues</b> International Trade, Transnational Production, Global Financial System, Global Division of Labour, Gender, Economic Development, Global Environmental change, Ideas, Security, Governance.</p>	Remember, Understand.
	<p><b>Unit– 3: Economic History of India in the Global Context-An Overview</b> Transition to colonialism-Colonial Times-Post Colonial-Post Independence-Post reforms.</p>	Remember, Understand.
	<p><b>Unit– 4: India's Economic Reforms</b> Rationale for Economic Reforms-India's Economic Reforms in the Global Context-Foreign Trade Policy-Convertibility of Rupee-Impact of WTO on Indian Economy-Foreign Investment and Multinational Corporations.- Privatization and Competition-Financial Sector Reforms</p>	Understanding, Analyze.
	<p><b>Unit– 5: India: the Emerging Giant</b> Macroeconomic Indicators - GDP-Real Economy-Prices- Saving- Investment- Government Finance, Money and Finance, External Sector, Infrastructural Indicators; Human Development Indicators; Institutional Development in the Financial Sector; Competitiveness Indicators-India and the Global Financial Crisis</p>	Remember, Understand.

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**4th Semester**  
**PAPER NAME - Demography**  
**[Elective]**  
**PAPER CODE- ECO- 4026**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>Describe the size, composition and distribution of human populations over time and across pace, and the processes through which populations change, namely the processes of birth, death and migration.</li> <li>Compare and critique the different theories of population, gain awareness on the roles played by factors such as age, sex, education, occupation, income, and others in influencing the size and distribution of populations, thus enhancing their understanding on population dynamics.</li> <li>Provide the</li> </ul>	<p><b>Unit-1: Theories of population</b>  The Malthusian Theory of population. Theory of Optimum Population, Theory of Demographic Transition, Theory of Becker and Easterlin, Henry Leibenstein's Theory of Fertility. Concept of Stable Population and Stationary Population. The Stable Population model, its vital rates and other characteristics.</p>	Remember, understand.
	<p><b>Unit-2: Vital Rates and the Life Table</b>  Measures of Reproductively-Total Fertility Rate, Gross Reproduction Rate, and Net Reproduction Rate, Standardized Fertility and Mortality Rates, Different Approaches to Measuring Infant Mortality Rate. Concept of a Life Table. Relationship among the different life table functions.</p>	Remember, Understand.
	<p><b>Unit-3: Nuptiality</b>  Basic measures of nuptiality, Estimation of the singulate mean age at marriage</p>	Understanding, Analyze.
	<p><b>Unit-4: Population Projection</b>  Component method of projection of population at the national level. Projection of the economically active population</p>	Understanding, Analyze.
	<p><b>Unit-5: Migration</b>  Internal migration—concepts, determinants and consequences. Measures of internal migration. International migration— types, determinant sand consequences. Migration models - Ravenstein's laws of migration, Everett Lee's theory of migration, Todaro's model of rural-urban migration, L-F-R model of migration</p>	Understanding, Analyze.

<p>students with relevant tools to study contemporary and burning issues faced by every country of the world like migration, whether its domestic or internal and international, migration from rural areas to urban areas, and the types, determinants and consequences of migration.</p> <ul style="list-style-type: none"> <li>• Examine the various population policies affecting fertility in the developed and less developed countries, and which contribute in helping the government and society to deal with the issues relating to population growth, aging and migration in a holistic manner.</li> </ul>	<p><b>Unit-6: Economically Active Population</b> Basic concepts and definitions. Female participation in the workforce.</p>	<p>Understanding, Analyze.</p>
<p><b>Unit-7: Population Policy</b> Population policies affecting fertility in developed and less developed countries. Population policies and programmes in India.</p>	<p>Understanding, Analyze.</p>	



**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**4th Semester**  
**PAPER NAME - Financial Operations & Management\***  
**[Elective]**  
**PAPER CODE- Paper- 4076**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Help the students to better develop their understanding of the financial system and its functioning.</li> <li>• Describe the process of investing in securities and assets in terms of investment policy, security analysis, portfolio construction, portfolio revision and portfolio evaluation</li> <li>• Interpret the principles of market valuation of debt instruments as well as valuation of stocks</li> <li>• Measure risk and return of financial assets, in particular risk of a stock, volatility of a stock and stock portfolio, capital asset pricing model and its implications, arbitrage pricing theory and determinants of beta</li> <li>• Analyze the</li> </ul>	<p><b>Unit-1: The Investment Setting</b>            Securities, Risk &amp; Return, Markets, and Financial Intermediaries.            Process of Investing: <i>investment policy, security analysis, portfolio construction, portfolio revision and portfolio evaluation</i>. Financial Goals: <i>Profit Maximization versus Wealth Maximization</i>.            Trading in Securities : <i>types of orders, margin purchases, and short sales</i></p>	Remember, understand.
	<p><b>Unit-2: Principles of Market Valuation</b>            The law of One Price and Arbitrage. The valuation of debt instruments: Pure Discount Bonds. Coupon Bonds, Current Yield and Yield to Maturity. Interest Rates and Bond Values. Bond duration and Interest Rate Sensitivity.            Valuing stock: Value of a Common Stock and the Dividend Discount Model: Zero Growth, Constant Growth and Multiple Growth Models. Linkage between Share Price, Earnings and Dividends. The significance of Price-Earnings Ratio</p>	Remember, Understand.
	<p><b>Unit-3: Measuring Risk and Return</b>            Risk of a stock. Measures of risk: Volatility of a stock and a stock portfolio. Beta of a stock and a stock portfolio. Portfolio Risk-Return Analysis: Two Asset Case. Efficient Portfolio and Mean-Variance Criterion. The Capital Asset Pricing Model and its implications. The Arbitrage Pricing Theory. Determinants of Beta.</p>	Understanding, Analyze.
	<p><b>Unit-4: Principles of Risk Management</b>            The Risk Management Process. Dimensions of risk transfer: Hedging, Insurance and its basic features. <i>Financial Guarantees, Caps &amp; Floor on Interest Rates, Options as Insurance</i>. The Diversification Principle. The Derivative Market. Traders in a Derivative Market; Hedgers, Speculators and Arbitrageurs. Instruments in the derivative market.</p>	Understanding, Analyze.

<p>technicalities regarding the mechanics of futures market in terms of convergence of futures price and spot price, margin operation, hedging strategies and arbitrage with stock index futures, along with various measures relating to bank management and performance evaluation.</p>		
<p><b>Unit-5: Mechanics of Futures Market</b>  Forward and Futures Contracts. Convergence of Futures Price and Spot Price. Margin Operation. Traders and their Orders. Short and Long Hedges. Basis Risk. Cross Hedging Hedging Strategies with Interest Rate Futures and Stock Index Futures. Speculating with Interest Rate Futures and Stock Index futures. Arbitrage with Stock Index Futures.  Risk of Trading Futures Contracts.</p>	<p>Understanding, Analyze.</p>	
<p><b>Unit-6: Options and swaps</b>  Call Option and Put Option. Combining Put, Call and Share: Straddle, Strangle and Spread. Spread combining Long and Short Options. Factors determining option prices. The Binomial option prices. The Binomial Option Pricing Model and the Black-Scholes Model for Call Options. Nature of Swaps: Currency Swaps and Interest Rate Swaps.</p>	<p>Understanding, Analyze.</p>	
<p><b>Unit-7: Bank Management and Performance Evaluation.</b>  Interest Rate Risk and its Assessment. Methods to reduce Interest Rate Risk.  Credit Risk and its management through diversification. Measuring Market Risk and its management. Valuation of Commercial Bank. Evaluating Bank Performance: Return on Assets and Return on Equity. Bank Failures.</p>	<p>Understanding, Analyze.</p>	

**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**4th Semester**  
**PAPER NAME - ECONOMICS OF HEALTH**  
**PAPER CODE- ECO- 4106**

Course Outcome	Unit/Topic	Bloom's Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Give the facts that resources for meeting health requirements are scarce, and the future is uncertain, this course intends to enable students to look at health related aspects from an economic perspective.</li> <li>• Cover core topics such as information asymmetry, health insurance, disparity in access to health care, and tries to explain, among others, why educated people experienced better health and aging experience declining health.</li> <li>• Helps the students to draw connections between the theoretical models and health policy debates around the world.</li> </ul>	<p><b>Unit– 1: Introduction to Health Economics</b>  Rationale for Economics of Health. Nature of Health Economics: <i>Information Asymmetry, Health Insurance, Process Utility and Disparity in Access.</i>  Health and Development. Health and Income: <i>The two way linkage.</i> Health Care as an economic commodity.</p>	Remember, understand.
	<p><b>Unit– 2: Demand for HealthCare</b>  Determining the demand for health care. Elasticity of the demand curve for health. The Grossman Model: <i>production possibility on tier, health production schedule, the labor–leisure–health improvement trade off, the marginal efficiency of capital.</i> Unifying the Grossman Model.</p>	Remember, Understand.
	<p><b>Unit– 3: Supply of HealthCare</b>  Creating the Physician: <i>Medical School and Residency.</i>  Physician work hours and wages. Returns to medical training and specialization.  Market Distortions: <i>barriers to entry, physician induced demand, defensive medicine and discrimination.</i>  Organization of a modern hospital. The market for hospitals.</p>	Understanding, Analyze.
	<p><b>Unit– 4: Innovations in the Health Industry and their Outcomes</b>  Pharmaceutical innovations and its costs. Patents as an incentive.  Technology and the Price of HealthCare. Technology Overuse: <i>The Dartmouth Atlas.</i>  Health Technology Assessment: <i>Cost Effectiveness Analysis and Cost-Benefit Analysis</i></p>	Understanding, Analyze.

	<p><b>Unit– 5: Health Policy</b>  The Health Policy Trilemma: <i>Health, Wealth and Equity</i>.  Strategies for an optimal Health Insurance system relating health care provision, controlling costs through price controls.</p>	Understanding, Analyze.
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**COURSE OUTCOME**  
**MA IN ECONOMICS**  
**4th Semester**  
**PAPER NAME - ENVIRONMENT AND ENERGY ECONOMICS**  
**[Elective]**  
**PAPER CODE- ECO0-4116**

Course Outcome	Unit/Topic	Bloom’s Taxonomy
<p>After the completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>Assess the value of environmental resources</li> <li>Analyze the ill effects of excessive use of energy</li> <li>Deliberate on the more efficient use of energy and the environmental resources</li> <li>Identify/quantify demand and supply factors of energy</li> <li>Develop models /policies for more efficient energy use by institutions</li> </ul>	<p><b>Unit– 1: Environment and Economy</b>  <b>Linkage:</b>  Environment as a source of resources and energy-Earth, life and biosphere, Ecosystem, components of Ecosystem: Biotic Environment, Abiotic Environment, Inorganic Substances, Organic Substances; Climate Condition and Limiting Factors; Soil, Energy, Biodiversity. Concept of Energy and its Role in the Biosphere; Energy Flow along Food Chain</p>	Remember, understand.
	<p><b>Unit– 2: Environmental problems</b>  Local and Global Environmental Problems: Air Pollution, Water Pollution, Noise Pollution, Light Pollution; Climate change, Global warming, Loss of biodiversity.</p>	Remember, Understand.
	<p><b>Unit– 3: Environmental Management</b>  Management Systems for Environment: Command and Control, Market Based Instruments, Community Management; Environmental Impact Management. International Conventions and Protocols</p>	Understanding, Analyze.

	<p><b>Unit– 4: Energy Demand Management</b>  Definition, Evolution, Justification-Load Management-Energy Efficiency Improvements and Energy Conservation- Cost-effectiveness- Energy efficiency debate</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit– 5: Economics of Energy Supply</b>  Economic analysis of energy instruments- Economics of fossil fuel supply, electricity supply, renewable energy supply, non-renewable resource supply etc.</p>	<p>Understanding, Analyze.</p>
	<p><b>Unit– 6: Student Presentations (based on case studies, empirical findings).</b></p>	<p>Understand, Analyze.</p>