	SUBJECT: ECONOMICS (M.A.)	
PROGRAMME	PSO1: Critically evaluate the underlying assumptions driving	
SPECIFIC	economic theories and policy decisions, and their implications for	
OUTCOMES	economic analysis.	
(PSOs)	PSO2:Clearlyconveyeconomic concepts, data interpretations, and	
	analytical findings in both English and an Indian language, through	
ECONOMICS	various communication formats including written reports and oral	
( <b>M.A</b> )	presentations.	
	<ul> <li>PSO3: Collaborate effectively with peers and stakeholders to integrate diverse view points, mediate differing opinions, and achieve collective goals in economic projects and discussions.</li> <li>PSO4: Demonstrate the ability to develop and implement innovative economic strategies and entrepreneurial ventures, leveraging economic theories and market insights.</li> <li>PSO5: Assess and apply ethical frameworks to economic issues, ensuringthateconomicpracticesanddecisionsalignwithprinciples of fairness, transparency, and social responsibility.</li> <li>PSO6:Address environmental challenges within economic contexts, promoting strategies and solutions that support sustainable development and responsible resource management.</li> </ul>	
	COURSE OUTCOME FOR FIRST YEAR Semester I	
ECO-411:		
Micro Economic	CO2: Analyze the theory of production and cost, focusing on production functions, returns to scale, least cost combination of	
	production functions, returns to scale, least cost combination of inputs and raditional and modern cost theories including empirical	
Theory I	inputs, and traditional and modern cost theories, including empirical	
	evidence and the derivation of cost functions from production functions.	
	CO3: Examine price and output determination in different market	
	structures, including perfect competition, monopoly, and	
	monopolisticcompetition, with an emphasis on equilibrium analysis,	
	price determination, and welfare aspects.	
	price determination, and wonare aspects.	

	<ul> <li>CO4: Explore the behavior of firms and pricing strategies under oligopoly, including non-collusive models (such as Cournot, Bertrand, and Stackelberg) and collusive models (such as cartels and price leadership), as well as the dynamics of price and output determination in monopsony and bilateral monopoly situations.</li> <li>CO5:Apply economic theories to practical scenarios, demonstrating an understanding of how economic theory informs real-world market</li> </ul>
	behavior and decision-making processes.
ECO-412:	
Macro-Economic	CO1: Understand the basic theoretical framework
TheoryI	<ul> <li>CO2: Examine the supply of money through various models, including financial inter mediation, the behavioural model of money supply determination, and the RBI'sapproach to controlling money supply and understanding the money multiplier.</li> <li>CO3:Analyze the Neo-Classical and Keynesian synthesis, including the IS-LM models and their extensions, to understand the interaction between goods and money markets andthe relative effectiveness of monetary and fiscal policies.</li> <li>CO4:Explore extensions of the IS-L Mmodels to incorporate labour markets and flexible prices, and understand the implications of these extensions for macroeconomic policy and analysis.</li> <li>CO5: Relate macroeconomic theories to real-world situations, including the impact of macroeconomic policies on the economy, and apply these theories to analyze economic phenomena such as inflation, business cycles, and policy effects.</li> </ul>
ECO-413:	CO1: Understand and apply fundamental statistical methods,
Statistical Methods	including measures of central tendency, dispersion, skewness, moments, kurtosis, and index numbers, to analyze economic data. CO2: Utilize correlation and regression analysis techniques, including simple correlation, Spearman's rank correlation, and the
	method of least squares, to analyze relationships between economic

	variables and apply partial and multiple regression methods.
	CO3: Comprehend and apply the theory of probability, including
	classical and empirical definitions, laws of addition and
	multiplication, conditional probability, and mathematical expectation,
	to solve economic problems.
	CO4: Analyze theoretical distributions (Binomial, Poisson, and
	Normal), and understand the concepts of estimation, sampling
	distribution, and desirable properties of estimators, including
	hypothesis formulation, Type I and Type II errors, and the use of
	statistical tests (Z, t, Chi-square, F).
	CO5: Apply statistical software to perform data analysis, interpret
	results, and utilize statistical methods effectively in economic
	research and problem-solving.
ECO-414:	CO1: Understand key concepts in environmental economics,
	including natural resources, pollutants, and the inter-linkages
Environment al Economics	betweenenvironmentandeconomy, and analyze the management of
ai Economics	renewable and non-renewable resources using models like Hotelling's
	and concepts related to common pool resources.
	CO2: Examine market failures related to environmental quality,
	including environmental externalities, and evaluate various policy
	measures for optimal pollution control such as Pigovian taxes,
	Coase's bargaining solution, tradable pollution rights, command and
	control measures, and international treaties.
	CO3:Apply methods for the valuation of environmental goods and
	services, including direct and indirect valuation methods, willingness
	to pay and accept, and various approaches such as the HedonicPrice
	theory, Averting Expenditure method, Travel Cost method, and
	Contingent Valuation method.
	CO4:Analyze the concept of sustainable development, including the
	limits to growth hypothesis, issues of irreversibility and uncertainty,
	the trade-offs between environment and development, and the
	principles and indicators of sustainability.

	CO5:Assess the role of institutions in environmental management
	and the importance of integrated environmental and economic
	accounting in the context of sustainable development.
ECO-415:	CO1: Understand and apply classical and modern theories of
InternationalTrade	international trade, including opportunity costs, comparative cost,
and Finance	Heckscher-Ohlin theory, and the theorem of factor price equalization,
	and analyze empirical evidence related to these theories.
	CO2:Explore trade theories that incorporate economies of scale and
	imperfect competition, such as the Imitation Gap theory,
	Technological Gap and Product Cycle theories, Linder-Kravis model,
	and models of product differentiation and intra-industry trade,
	including Krugman and Lancaster models.
	CO3: Analyze the theory and impact of trade interventions and
	protection measures, including tariffs, quotas, and voluntary export
	restraints, and understand their welfare implications using concepts
	like Stolper-Samuelson theorem, Metzler's paradox, and the political
	economy of non-tariff barriers.
	CO4: Examine the theory and effects of regional trade blocs and
	economic cooperation, including the static and dynamic effects of
	customs unions, the economic progress and rationale behind trading
	blocs such as the EU, NAFTA, SAARC/SAPTA, and ASEAN.
	CO5: Assage the impact of globalization and liberalization on trade
	CO5:Assess the impact of globalization and liberalization on trade policies and economies, and critically analyze the effects of trade
	theories and policies on the global flow of goods, services, and
	capital.
	Semester II
ECO-421:	
Micro	CO1: Critically evaluate alternative theories of the firm, including marginal analysis, Baumol's sales revenue maximization model,
	Williamson's managerial discretion model, and full cost pricing rules.
EconomicTheoryII	CO2: Analyze advanced theories of the firm such as Marris's
	managerial enterprises model, Bain's limit pricing theory with recent
	managenai enterprises moder, bain s mint pricing theory with recent

	<ul> <li>developments including Sylos-Labinis model, and behavioral and game theoretic models of firm behavior.</li> <li>CO3:Understand and apply distribution theories, including th neoclassical approach of marginal productivity theory, the product exhaustion theorem, and theories of distribution in imperfect markets. Examine the determination of rent, wages, interest, and profit from different theoretical perspectives, including Ricardian, Marxian, Kaleckian, and Kaldorian.</li> <li>CO4:Explore welfare economics concepts such as Pigouvian welfare economics, Pareto optimality, social welfare functions, and the theory of second best. Analyze general equilibrium and the compensation principle, as well as the implications of market imperfections and</li> </ul>
	failures on welfare. CO5: Investigate the economics of information, including its role in economic theory and practice, and analyze how information affects economic behavior and decision-making in both closed and open systems.
ECO-422: Macro EconomicTheoryII	CO1: Understand and apply Post-Keynesian approaches to the demand for money, including the regressive expectation model, portfolio balance approach, Patinkin's real balance effect, Friedman's modern quantity theory, and the shift from Keynesian economics to
	monetarism. CO2: Analyze macroeconomic theories in an open economy, focusing on income determination, internal and external equilibrium using the Mundell-Fleming model, and the concept of the foreign trade multiplier.
	CO3: Examine theories of inflation, including Keynesian and Monetarist approaches, the Structuralists' theory, Phillips curve analysis (short-run and long-run), the Natural Rate of Unemployment hypothesis by Samuelson and Solow, Tobin's modified Phillips curve, and the concepts of adaptive and rational expectations.

ECO-423: Quantative Methods	CO4:Explore the nature and features of business cycles, and analyze various theories of business cycles including those by Schumpeter, Kaldor, Samuelson and Hicks, and Goodwin. Evaluate the relative efficiency of monetary and fiscal policies in controlling business cycles. CO5: Critically assess the new classical critique of Keynesian micro foundations, including the new classical approach to business cycles and its policy implications, and understand the new Keynesian counter-critique of the new classical perspective. CO1: Understand and apply fundamental concepts of calculus, including functions, limits, continuity, differentiation (rules, partial derivatives, differentials, and higher-order differentials), and integration in the context of economic analysis. CO2: Analyze and solve problems involving maxima and minima of functions, applying simple integration rules, and understand their economic applications. CO3: Utilize difference and differential equations to model and solveeconomicproblems, includingbothnon-linearandlineardifferential equations, and first and second-order difference equations. CO4: Master matrix algebra concepts, including types of matrices, operations, determinants, solutions of simultaneous equations using Cramer's rule, matrix inversion, rank of amatrix, vector properties, and quadratic forms, including eigenvalues and eigenvectors.
	problems.
ECO-424:	CO1: Understand and evaluate various approaches to economic
Indian Economy	development in India, including self-reliance strategies, import
<b>J</b>	substitution, protectionist policies, and the impact of globalization
	and structural adjustment packages post-1991. Analyze the role and

	functions of NITI Across in the context of accurate standing to
	functions of NITI Aayog in the context of economic planning and
	development.
	CO2: Analyze poverty, inequality, and unemployment in India by
	examiningpovertymeasures,governmentinitiatives,andtheGlobal
	Hunger Index. Evaluate regional imbalances and disparities,
	employment issues, underemployment, and the strategies for
	employment generation, focusing on industrial relations, labor
	welfare, and informal sector employment.
	CO3: Explore sectoral growth in India with a focus on agriculture,
	including the impact of economic liberalization. Assess industrial
	development strategies, including industrial policy reforms,
	reservation policies for small-scale industries, competition policy,
	industrial financing sources, public sector reforms, privatization, and
	Foreign capital involvement. Analyze the growth and significance of
	the service sector in India, including its output, employment, and
	export performance.
	CO4: Examine current economic issues as presented in the latest
	Economic Survey and Union Budget. Discuss other contemporary
	issues impacting the Indian economy and their implications,
	including infrastructure development in key areas such as energy,
	transport, health, and education.
	CO5:Apply empirical analysis tounderstandandaddressimportant
	economic issues in India, integrating insights from sectoral growth,
	poverty, inequality, and current economic policies into practical
	understanding and strategic planning.
ECO-425:	CO1: Analyze the foreign exchange market, including demand and
InternationalTrade	supply, exchange rate theories, and the impact of fixed vs. flexible
and Finance II	exchange rates.
	CO2: Examine balance of payments concepts, adjustment processes,
	devaluation effectiveness, and policies for equilibrium under different
	exchange rate regimes.

	<ul> <li>CO3: Understand international monetary systems, including the Gold Standard, Bretton Woods System, international reserves, and recent global financial crises.</li> <li>CO4: Evaluate India's trade policies, recent trade reforms, international debt issues, and the role of MNCs, as well as export promotion and import/export policies.</li> <li>CO5: Apply theories to assess the impact of policies and external shocks on the economy, focusing on exchange rates, BOP adjustments, and trade policies.</li> </ul>
	COURSEOUTCOMEFORIIYEAR
	Semester III
ECO-511:	CO1: Understand the role and functions of government, including
Public Economics I	allocation, distribution, stabilization, and the provision of public, private, and merit goods.
	CO2:Analyze public expenditure theories, including Wagner'slaw,
	the Wiseman-Peacock hypothesis, and reforms such as programme budgeting and zero-based budgeting.
	CO3: Examine taxation theories, including benefit and ability-to- pay approaches, optimal taxation, incidence theory, excess burden, and the trade-off between equity and efficiency.
	CO4: Explore public choice theory and budget determination, including voting systems, the Median Voter model, Arrow's Impossibility theorem, and Down's Theory of Democracy.
	CO5: Investigate politico-economic factors, such as rent-seeking behavior, bureaucratic inefficiencies, and directly unproductive profit-
	seeking (DUP) activities.
ECO-512:	CO1: Understand classical and modern theories of development,
Growth and	including contributions from Adam Smith, Ricardo, Malthus, Karl
Development	Marx, and Schumpeter.
Theory I	CO2: Analyze various approaches to development, such as the vicious circle of poverty, bigpush, balanced and unbalanced growth,

	and the critical minimum effort thesis.
	CO3: Examine growth models, including Harrod-Domar, Solow, and
	technological progress theories (embodied vs. disembodied,
	exogenous vs. endogenous).
	CO4: Explore the A-K Model of Growth, Cambridge criticism of Neo-
	classical analysis, and Kaldor's growth model.
	CO5: Apply theories of growth and development to real-world contexts,
	including institutional aspects, international trade,
	investmentcriteria, social cost-benefit analysis, and there levance of
	planning.
ECO-513:	CO1: Understand and apply mathematical techniques to consumer
Mathematical	behavior theories, including utility maximization, elasticity, and
Economics I	utility functions.
	CO2: Analyze production functions and cost functions using
	mathematicalmodels, includingCES, VEX, and trans-log functions, and
	understand constrained optimization.
	CO3: Examine price determination and market structures using
	mathematical models for perfect competition, monopoly,
	monopolistic competition, duopoly, oligopoly, and monopsony.
	CO4: Explore market equilibrium concepts, including Marshallian
	and Walrasian equilibrium, and analyze multi-market and general
	equilibrium systems.
	CO5:Integrate mathematical tools with economic theories to refine and
	enhance understanding of microeconomic concepts.
ECO-513:	CO1:Analyze the role of agriculture in economic development and
Agricultural	understand models like Schultz, Lewis, Fei-Ranis, andJorgenson's.
EconomicsI	CO2: Evaluate agricultural production and productivity, including
	resource use, production functions, cost and supply curves, and
	technical change.
	CO3: Examine land reforms and land policy, including land utilization
	principles, distribution trends, land tenures, and reform measures.
	CO4:Studytherurallabormarket,focusingonlaborsupply,market

	segmentation, marginalization, unemployment trends, and wage
	differences.
	CO5: Understand and analyze policy issues relevant to Indian
	agricultural economics.
ECO-514:	CO1: Understand the scope and fundamentals of econometrics,
Elementary	including the basics of linear regression models and Gauss-Markov
Econometrics	theorem.
	CO2: Apply of regression models (log-linear, semi-log, reciprocal) to
	economic data.
	CO3: Identify and address problems in regression analysis such as
	heteroscedasticity, multicollinearity, and autocorrelation, including
	their causes, detection, and remedies.
	CO4: Utilize techniques for regressions with qualitative independent
	variables and dummy dependent variables, including
	dummy variable techniques, structural stability tests, and
	interaction effects.
	CO5: Implement and analyze models involving qualitative dependent
	variables, such as Linear Probability Model (LPM), Logit, and Probit
	models.
ECO-514:	CO1: Understand and evaluate key health metrics, including
Health Economics	morbidity, mortality, life expectancy, and their relationship with
	economic development indicators like infant mortality
	and malnutrition.
	CO2: Apply economic evaluation methods to healthcare, including
	cost analysis (CA), cost-benefit analysis (CBA), cost-effectiveness
	analysis (CEA), and cost-utility analysis (CUA).
	CO3: Analyze health care markets, including market structures
	(monopoly, oligopoly), transaction costs, and issues in provider
	competition, as well as demand and supply-side considerations.
	CO4:Assess India's health care system, including public and private
	health systems, financing trends, health sector reforms, and public
	policies to improve access and manage costs.

	CO5: Evaluate the role of international organizations, such as the
	WHO, and understand global and national health policies impacting
	medical care systems.
	incucai care systems.
ECO-515:	CO1: Understand the structure and concepts of the financial system,
Financial	including money, finance, market types, and security valuation.
Institutions and	CO2: Analyze the role and efficiency of banks and non-bank
Markets	financial intermediaries, including development banks, mutual funds,
	insurance companies, and venture capital funds.
	CO3: Examine financial markets in India, including money markets,
	bond markets, stock markets, derivatives, and foreign exchange
	markets.
	CO4: Evaluate regulatory frameworks and institutions, focusing on
	the need for financial regulation, sources of financial instability, and
	the roles of RBI, SEBI, and IRDA in maintaining stability and
	development.
	CO5: Assess the impact of monetary and financial forces on economic
	development, policy-making, and international finance.
Semester IV	
ECO-521:	CO1:Understand and recall the basic concepts and principles of Public
Public Economics II	Economics, including public debt, fiscal policy, and fiscal federalism.
	CO2: Analyze various concepts through case studies, focusing on
	public debt, fiscal policy, and the principles of fiscal federalism.
	CO3: Apply knowledge to practical problems related to public
	finance, including budgetary deficits, fiscal multipliers, and fiscal
	federalism.
	CO4: Execute or create projects or field assignments based on the
	knowledge gained in the course, covering topics such as publicdebt
	management, fiscal policy evaluation, and Indian public finances.
ECO-522:	CO1:Understand the sectoral aspects of development, including the
Growth	role of agriculture, efficiency, sustainability, and industrialization in
andDevelopment	developing countries.

TheoryII	CO2: Analyze the impact of international trade on economic
	development, including theories of trade, export-led growth, and
	international monetary assistance.
	CO3:Evaluate resource allocation in developing countries, focusing
	on investment criteria, cost-benefit analysis, and the choice of
	appropriate technology.
	CO4:Assess planning and development in India, including the need
	for planning and an overview of Indian planning models, such as the
	Mahalanobis Model.
ECO-523:	CO1: Analyze macro-economic models, including income
Mathematical	determination in Classical and Keynesian systems, static and
Economics II	dynamic multipliers, investment determinants, and trade cycle
	models by Samuelson and Hicks.
	CO2: Understand and apply growth models such as the Harrod
	Problem, Neoclassical growth model, Solow and Meade models with
	technical progress, and concepts of optimal growth and the golden
	rule of accumulation.
	CO3: Explore game theory concepts including two-personzero-sum
	games, payoff matrices, pure and mixed strategies, Maximin and
	Minimax solutions, saddle point solutions, non-constant sum games,
	prisoners' dilemma, and linear programming techniques like the
	simplex method.
	CO4: Utilize linear programming applications and input-output
	analysis in economics, including transport and storage problems, open
	and closed systems, Hawkins-Simon conditions, Leontief's dynamic
	system, and consistency testing of planning models.
ECO-523:	CO1: Analyze the role of capital and rural credit, including
Agricultural	institutional and non-institutional sources, reorganization through
EconomicsII	cooperatives, commercial banks, regional rural banks, and the role of
	NABARD.
	CO2: Evaluate agricultural prices and marketing policies, including
	market efficiency, structure, imperfections, regulated markets, crop

	insurance, terms of trade, and the objectives and instruments of
	agricultural policy, focusing on food security and the Public
	Distribution System.
	CO3: Assess trends in agricultural growth in India, including regional
	variations, shifts in cropping patterns, supply and pricingof inputs,
	distribution of gains from technological change, and the role of
	public investment.
	CO4:Explore the impact of the external sector on Indian agriculture,
	including international trade, commodity agreements, the WTO, trade
	liberalization, agro-industries, the role of MNCs, and globalization
	effects.
ECO-524:	CO1: Understand simultaneous equation models, including structural
Advanced	and reduced forms, simultaneous equation bias, identification rules,
Econometrics	and methods such as Indirect Least Squares (ILS), Two-Stage Least
	Squares (2SLS), Three-Stage Least Squares (3SLS), and Maximum
	Likelihood Estimation (ML).
	CO2: Analyze time series models, covering deterministic and
	stochastic models, tests of stationarity including Autocorrelation
	Function (ACF) and Correlogram, and Unit Root Tests such as the
	Augmented Dickey-Fuller (ADF) and Phillips-Perron (PP) tests.
	CO3:Apply forecasting techniques using single equation regression
	models, ARIMA modeling (Box-Jenkins methodology), Vector Auto-
	Regression, and multi-variate analysis methods like Discriminant
	Analysis and Principal Component Analysis.
	CO4: Explore dynamic econometric models, including autoregressive
	and distributed lagmodels, geometric lag approaches (Koyck model,
	Adaptive expectations), rational expectations, partial adjustment
	models, and polynomial lag methods (Almonapproach).
ECO-524:	CO1: Understand the climate system, its drivers, naturalvariability,
Economics of	and the economics and ethics of climate change, including ethical
Climate Change	frameworks and inter-temporal equity.
	CO2:Analyze the impacts of climate change on global growth and

development, including its effects on people, costs in developed
development, mendung its effects on people, costs in developed
countries, economic modeling, societal impacts, and issues like
displacement, migration, health, and marginalized groups.
CO3: Evaluate optimal climate policies, focusing on economic
efficiency, carbon abatement costs, social cost of carbon, discounting,
national climate policy tools (carbon tax, cap-and- trade), equity
issues, and the environmental Kuznets curve.
CO4: Explore climate change concerns specific to India, including
the UNFCCC, Kyoto Protocol, impacts on natural resources, coastal
vulnerability, rural livelihoods, food security, India's stance in
international negotiations, and the National Action Plan on Climate
Change.