

ST. XAVIER'S COLLEGE (AUTONOMOUS)

PALAYAMKOTTAI - 627 002

(Recognized as "College with Potential for Excellence" by UGC)

(Accredited by NAAC at "A⁺⁺" Grade with a CGPA of 3.66 out of 4 in IV Cycle)

(Star College Programme by DBT, Govt. of India.)

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

SYLLABUS



Preserve this copy of the syllabus until you complete the course, as it is
an important document of your present course of study.

Name _____

M.A. Economics

Choice Based Credit System (CBCS)

(w.e.f. June 2026)



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SYLLABUS

PROGRAMME OUTCOMES (POS) FOR PG PROGRAMME

Students of all Undergraduate Degree Programmes at the time of graduation will be able to attain the following:

PO1. Critical Thinking: Acquire the knowledge in the respective field and take informed actions.

PO2. Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3. Social Interaction: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice.

PO4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5. Ethics: Recognize different value systems and apply ethical principles and commit to professional ethics and responsibilities and norms of different value systems.

PO6. Environment and Sustainability: Demonstrate the issues of environmental contexts and sustainable development.

PO7. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern IT tools including prediction and modeling to complex activities with an understanding of the limitations.

PO8. Self-directed and Life-long Learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO 1: Demonstrate advanced knowledge of microeconomic, macroeconomic, development, welfare, and institutional economics to analyze contemporary economic issues and policy challenges.

PSO 2: Apply mathematical, statistical, econometric, and computational techniques using appropriate software and digital tools for economic analysis, forecasting, and decision-making.

PSO 3: Analyze the behaviour of consumers, firms, governments, and institutions using theoretical, empirical, and evidence-based approaches to address socio-economic problems.

PSO 4: Design and conduct independent research by formulating research problems, collecting and analyzing data, interpreting results, and preparing professional research reports.

PSO 5: Evaluate national and international economic policies, public finance, governance systems, international trade, foreign investment, and exchange rate dynamics in the context of economic growth and welfare.

PSO 6: Examine issues related to agriculture, rural development, urbanization, labour markets, regional disparities, poverty, inequality, human development, and sustainable economic development in India.

PSO 7: Assess environmental, climate-related, and sustainability challenges using environmental economic tools and policy frameworks for sustainable resource management.

PSO 8: Evaluate the economic implications of emerging technologies, particularly Artificial Intelligence and digital innovations, on productivity, employment, business practices, and public policy.

PSO 9: Develop analytical, critical-thinking, professional, and problem-solving skills through internships, field studies, project work, and practical applications of economic concepts.

PSO 10: Exhibit leadership, ethical values, communication skills, teamwork, and lifelong learning competencies required for careers in academia, research, government, industry, entrepreneurship, and development organizations.

M.A. Economics – Course Pattern
(With effect from June 2026)

Sem		Status	Code	Name of the course	Hrs	Credits
I	A	Core 1	26PECC11	Advanced Microeconomics – I	6	4
		Core 2	26PECC12	Advanced Macroeconomics – I	6	4
		Core 3	26PECC13	Mathematical Economics	6	4
		EC 1	26PECE11	History of Economic Ideas / Rural Economics	5	3
		EC 2	26PECE12	Institutional Economics / Regional Economics	5	3
	B	SEC 1	26PECS11	Economics of Artificial Intelligence	2	2
				Sub-Total	30	20
II	A	Core 4	26PECC21	Advanced Microeconomics – II	6	4
		Core 5	26PECC22	Advanced Macroeconomics – II	6	4
		Core 6	26PECC23	Statistical Methods	6	4
		EC 3	26PECE21	Agricultural Economics / Urban Economics	5	4
		EC 4	26PECE22	Fiscal Economics / Welfare Economics	5	4
	B	SEC 2	26PECS21	Introduction to Environmental Economics Tools	2	2
	C	Extension Activity		STAND (Student Training and Action for Neighbourhood Development)	-	1
				Sub – Total	30	23
III	A	Core 7	26PECC31	Development Economics	5	4
		Core 8	26PECC32	International Economics	5	4
		Core 9	26PECC33	Research Methodology	5	4
		Core 10	26PECC34	Econometrics	5	4
		Core 11	26PECC35	Industrial Economics	4	3
		EC 5	26PECE31	Computer Application in Economics/ Economics of Climate Change	4	3
		EC 6	26PECE32	Practical: Computer Application in Economics	2	2
	B	Internship	26PECI31	Carried out in summer vocation at the end of semester II	-	2
				Sub – Total	30	26
IV	A	Core 11	26PECC41	Indian Economy: Issues and Policies	6	4
		Core 12	26PECC42	Labour Economics	6	4
		Core 13	26PECC43	Behavioural Economics	6	4
		Project	26PECC44	Project Viva-Voce	4	4
		EC 7	26PECE41	Economics of Social Issues / Economics in Everyday Life	4	3
	B	SEC – 3	26PECS41	Project Appraisal	4	3
				Sub – Total	30	22
					120	91
				Additional Compulsory Courses		
				I Year (Value – Added Course)		3
				II Year (Extra - Credit Course)		3
				MOOC		2
				Field Visit		1
					120	100

VALUE ADDED COURSES

S. No.	Course Code	Name of the Course	Hours	Credit
1.	26PECVA1	Use of Statistical Tools with SPSS	30	3
2.	26PECVA2	Database on Indian Economy	30	3

EXTRA CREDIT COURSES

S. No.	Course Code	Name of the Course	Credit
1.	26PECEC1	Health Economics	3
2.	26PECEC2	Political Economy	3
3.	26PECEC3	Indian Economy for Civil Services	3
4.	26PECEC4	Village Survey and Participatory Rural Appraisal	3

SEMESTER – I

26PECC11 ADVANCED MICROECONOMICS - I

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC11	Advanced Microeconomics – I	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain and analyse consumer behaviour, demand analysis, and market equilibrium concepts.						K2, K4
CO2	Examine production theories, factor substitution, and economies of scale in production decisions.						K4
CO3	Analyse cost and revenue structures for determining firm behaviour and equilibrium.						K4
CO4	Evaluate alternative theories and pricing models related to firm behaviour and decision making.						K5
CO5	Assess managerial theories and their applications in analysing firm objectives and performance.						K4, K5
CO6	Generate the microeconomic models to real-world market situations						K6

Module	Contents	Hours
I	Consumer Behaviour Law of demand - Recent Developments in Demand: The Pragmatic Approach to Demand Theory - Compensatory demand curves - Consumer Surplus: Marshall's and Hicksian Measure - Price, Income and substitution effect (Hicks and Slutsky) - Revealed Preference theory of demand - Engel curve – Budget constraint – Derivation Demand – Cobweb theorem.	18
II	Theory of supply and Production Law of Supply: Measurement of Elasticity of Supply – The Short –run and long run supply curve under Perfect and imperfect competitions – Production function: Law of variable proportion – The Law of Returns to Scale – economies of scale – ISO quant approach and producer's equilibrium – factor substitution, elasticity of factor substitution - The Cobb – Douglas and CES production function – Technical Progress production function - theory of learning curves.	18

III	Cost Structure and Revenue Cost: Meaning – Types of cost – Determinants of short and long run cost curves - Cost function - Cost curves: short run and long run cost curves and its shapes – Traditional and modern theory of costs - Revenue: Relation between AR and MR Curves - Importance of revenue Curves - Interactions of cost and revenues conditions of equilibrium of a firm.	18
IV	Alternative Theories of Firm Bain's Limit Pricing Theory; The Recent Developments in the Theory of Limit Pricing: Sylos - Labini Model – Franco Modigliani Model – Peak Load Pricing – Bhagwati Model and Pashigian Model – Input-output model – Linear Programming applications in decision making.	18
V	Managerial Theories of the Firm Baumol's Theory of Sales and Revenue Maximisation – Growth Maximization model of Marris – Williamson's model of managerial discretion.	18
Text Books		
1	H.L. Ahuja (2017) Advanced Economic Theory-Micro Economic Analysis” S. Chand and Company Limited.	
2	Hal R. Varian, (1992) Microeconomic Analysis” W.W. Norton and Company.	
3	A.Koutsoyannis (1979) Modern Micro Economics”, MacMillan Press, London.	
Reference Books		
1.	Joan Robinson, John Eatwell and McGraw Hill (1973) <i>An Introduction to Modern Economics</i> .	
2.	M.L. Jhingan, (1999) Microeconomic Theory”, Vrinda Publications Limited.	
3.	Jean Tirol (1994) <i>The Theory of Industrial Organization</i> , MIT Press – Cambridge.	
4.	Mas-Colell, Whinston & Green (1995) <i>Microeconomic Theory</i> , Oxford University Press.	
Web Sources		
1.	https://plato.stanford.edu/	
2.	https://www.econlib.org/	

26PECC12 ADVANCED MACROECONOMICS – I

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC12	Advanced Macroeconomics – I	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain and critically compare the Classical, Keynesian models of output and employment, and price determination.						K4
CO2	Apply IS–LM and AD–AS models in macro analysis.						K4
CO3	Evaluate Rational Expectations, Wage-Price rigidities, and stabilization policies.						K5
CO4	Analyse exchange rate determination, balance of payments and assessing India's exchange rate						K3
CO5	Examine fiscal and monetary policy effectiveness through case studies of Reserve Bank of India and the monetary tools.						K6
CO6	Assess unemployment, inflation, and productivity shocks.						K5

Module	Contents	Hours
I	Classical, Keynesian and Post Keynesian Macroeconomics Classical model of determination of output and employment in the short run, Say's Law of markets, Quantity theory of money, The real balance effect, Keynesian Theory of Output and Employment- Under employment equilibrium- Effective Demand - IS-LM Model.	18
II	The New Classical Macroeconomics The aggregate demand curve, the aggregate supply curve, equilibrium in the AD-AS model, Rational Expectation Hypothesis, Aggregate supply hypothesis, Policy implications of new classical Approaches, Source of Productivity shocks in Real Business Cycle Theory, Stabilisation Policy and Unemployment, Role of money in Real Business Cycle Theory, Policy implications of real business cycle theory.	18
III	Classical Business Cycle Analysis Role of money and monetary policy in the classical model, rational expectations and the role of monetary policy, Core propositions of new Keynesian macroeconomics, Wage and Price Rigidities, New Keynesian business cycle theory, Policy implications of new Keynesian macroeconomics	18

IV	Open Economy Macroeconomics Openness in goods in financial market, output interest rate and exchange rate, exchange rate regimes, exchange rate and balance of payments.	18
V	Macroeconomic Policies Stabilisation policies, Fiscal Policy, Monetary Policy, Optional Policy Mix, Macroeconomic Policy and the Phillips Curve, The cost of unemployment and inflation, Government Expenditure, Rules Vs Discretion, Case study analysis of RBI Monetary policy announcements - Monetary administration and treasury management in the <i>Arthashastra</i> .	18
Textbooks		
1.	Mankiw, N.G. (2016). Principles of Macroeconomics (8 th ed.) CENGAGE Learning Custom Publishing.	
2.	Dornbush, Rudiger, Stanley Fisher and Richard Startz (2014). Macroeconomics, McGraw-Hill Education, New Delhi.	
Reference Books		
1.	Michl, T.R. (2015) Macroeconomic theory: A short course. Routledge, New York.	
2.	Blanchard, O., & Giavazzi, F. (2003). Macroeconomic effects of regulation and deregulation in goods and labour markets, The quarterly Journal of Economics.	
3.	Romer D., 1996, Advanced Macroeconomics, McGraw-Hill international.	
Web Sources		
1.	https://www.rbi.org.in	
2.	https://www.finmin.nic.in	
3.	https://www.imf.org	

26PECC13 MATHEMATICAL ECONOMICS

Course Code	Course Name	Course	Credits	Hours	Internal	External	Marks
26PECC13	Mathematical Economics	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Recall equations and simultaneous equations						K1
CO2	Explain the concept of Logarithms and progression						K2
CO3	Construct mathematical economic models using matrices						K3
CO4	Apply mathematical tools to solve economic problems						K4
CO5	Analyze optimization behavior of consumers and firms						K5
CO6	Evaluate economic decisions using constrained optimization						K6

Module	Contents	Hours
I	Solving Simultaneous Equation Equation – meaning – Types: Linear equation – solving quadratic equations by standard formula method – solving simultaneous equation by elimination and substitution method – applications of simultaneous equations.	18
II	Logarithms and Progression Logarithms: meaning – definition – Rule of logarithms – uses and characteristics of logarithms tables - Anti-logarithms. Progression: Arithmetic Progression – Geometric progression – application of progression.	18
III	Introduction to Matrix Matrices and their applications. Mathematical operations on matrices, determinants, minors, cofactors and inverse of matrices, solutions simultaneous equations using inverse and crammers rule - Input –Output analysis.	18
IV	Differential Calculus and Unconstrained optimization Differential Calculus: meaning and definition - rules for differentiation, marginal and total revenue, marginal and total cost - concept of maxima & minima, revenue and profit maximization under perfect and monopoly competition.	18
V	Optimization Techniques with Constraints Partial, total and cross derivatives - higher order derivatives – marginal productivity of labour and capital - Constrained Optimization: concept and meaning - Constrained optimization by substitution - The Lagrange multiplier: constrained maximization with two variables.	18

Textbooks	
1.	Geoff Renshaw (2016) Maths for Economics, 4 th Ed. Oxford University Press.
2.	Rosser, M. (2003). <i>Basic mathematics for economists</i> . Routledge.
Reference Books	
1.	Chiang, A. C. and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics, McGraw-Hill Education.
2.	Carter, M. (2001). Foundations of Mathematical Economics, MIT Press.
3.	Mabbet A J (1986) Workout Mathematics for Economists, Macmillan Master Series, 4 th Edition London.
Web Sources	
1.	https://www.udemy.com/course/mathematics-for-economists-functions-and-derivatives/
2.	https://www.classcentral.com/course/swayam-mathematical-economics-14187 .
3.	https://www.coursera.org/learn/introduction-to-calculus

26PECE11 HISTORY OF ECONOMIC IDEAS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE11	History of Economic Ideas	Elective – I (1)	3	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Analyse the pre-classical and classical economic thought						K2, K4
CO2	Analyze the emergence of marginal utility theory						K3, K4
CO3	Critically evaluate Marxian economics and the marginalist revolution						K4, K5
CO4	Interpret Keynesian and post-Keynesian developments						K4, K5
CO5	Examine Schumpeterian dynamics and capitalist evolution						K5
CO6	Evaluate Sraffian critique and modern classical revival						K5, K6

Module	Contents	Hours
I	Economic ideas before and after Adam Smith. Mercantilist Writing on Value and Profits - Beginnings of the Classical Theory of Prices and Profits - Physiocrats – Quesnay's economic ideas- Adam Smith's value theory - David Ricardo: Theory of rent and first approach to the profit-labour theory of value - Malthus view on economic exchange of class conflict - Kautilya's views on taxation, trade, agriculture, labour, and public administration.	15
II	Utilitarianism Jevons's Theory of Marginal Utility and Exchange. Menger's Theory of Marginal Utility, Prices, and Income Distribution. Walras's Theory of General Economic Equilibrium.	15
III	Karl Marx and Marginalist Revolution The critique of capitalism and exploitation – accumulation and expanded reproduction – The laws of movement of capitalism – critical assessment - Marxism after Marx – The marginalist revolution – Equilibrium between scarcity and demand – Jevons – Carl Menger – Max Weber – Bohm – Bawerk – Swedish School – Hayek.	15
IV	Keynes and Schumpeter Probability and uncertainty – The treatise on money – The General Theory – The Asymmetries of economic policy in an open economy and international	15

	institutions – Michal Kalecki – The New Cambridge School – Joseph Schumpeter: From statics to dynamics – The breakdown of capitalism.	
V	Piero Sraffa Money and Banking – Criticism of Marshallian theory – Imperfect competition and the critique of the representative firm – Cambridge: Wittgenstein and Keynes – The critical edition of Ricardo's writings – Production of commodities by means of commodities – The Sraffian Schools.	15
Textbooks		
1.	Lokanathan, V., (2018) <i>A History of Economic Thought</i> , New Delhi: S. Chand Publishing.	
2.	Bhatia, H.L., (2009) <i>History of Economic Thought</i> , 4th ed., Vikas Publishing House, New Delhi.	
Reference Books		
1.	Gide, C. and Rist, C., (2016) <i>A History of Economic Doctrines</i> , Surjeet Publications, New Delhi.	
2.	Haney, L.H., (2018) <i>History of Economic Thought</i> , Surjeet Publications, New Delhi.	
3.	Jhingan, M.L., (2021) <i>History of Economic Thought</i> , Vrinda Publications, New Delhi.	
Web Sources		
1.	https://www.hetwebsite.net/het/home.htm?utm_source=chatgpt.com	
2.	https://plato.stanford.edu/?utm_source=chatgpt.com	
3.	https://www.coursera.org/learn/introduction-to-calculus	

26PECE11 RURAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE11	Rural Economics	Elective – I (2)	3	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Understand rural development through economic theories						
CO2	Label and interpret the nature and scope of rural economics.						K1, K2
CO3	Define and demonstrate the theories of rural poverty and unemployment.						K1, K2
CO4	Recall, outline and determine Institutional and Organisational Changes						K1, K2, K5
CO5	Organize, examine and evaluate. Rural development programmes						K3, K4
CO6	Summarize, develop and explain planning and policy for development						K2, K3, K5

Module	Contents	Hours
I	Introduction to Rural Economics Nature and Scope of Rural Economics - Inter-disciplinary approach of Rural Economics –Components - Structure and Characteristics -Pre and Post-independence - Rural Development: Meaning, Nature and Scope - Factors Affecting Rural Growth.	15
II	Rural Resources and Rural development theories Rural Resources: Nature, Types and Magnitude - Rural Resources Management and Development - Application of Technology in Rural Development – Problems and prospects - W.W. Rostow’s - Lewis-Fei-Ranis and Gandhian Approach to Rural Development - Gandhian Gram Swaraj.	15
III	Rural Demography and Occupational Structure Demography: Population Size, Sex and Age Composition - Density of Population- Population Problems and Challenges – Family Welfare Measures in Rural India - Occupational Structure: Nature of Rural Occupations - Occupational Distribution in Rural India – The Concept of Work Participation Rates	15
IV	Rural Poverty and Unemployment Rural Poverty: Meaning, Estimates, Causes and Consequences – Unemployment: Meaning, Types and Magnitude of Rural Unemployment - Causes and Consequences - National Programmes for Rural Development - Community Development Programmes and Employment Guarantee Schemes.	15

V	Rural Empowerment Programmes Bharat Nirman, Provisions of Urban Amenities in Rural Area (PURA), Mahatma Gandhi National Rural Employment Guarantee Act - Agencies for Rural Development: Government, Semi-Government Organisations, Co-Operative Institutions, Non-Government Organisations and Voluntary Agencies for Rural Development.	15
Textbooks		
1.	Vasant Desai (2012) Rural Development in India, Himalaya Publishing House, Mumbai,	
2.	Dutt and Sundaram (2013) Indian Economy, S. Chand Publications, New Delhi.	
Reference Books		
1.	Singh, K., & Shishodia, A. (2016) Rural development: Principles, policies, and management. SAGE Publishing India.	
2.	Hoff, K., Braverman, A., & Stiglitz, J. E. (1993) The economics of rural organization. Oxford: Oxford University Press.	
3.	Hill, B., & Ray, D. (1987). Economics for agriculture: food, farming and the rural economy. Basingstoke, UK: Macmillan Education	
Web Sources		
1.	https://www.kobo.com/us/en/ebooks/public-finance	
2.	https://www.amazon.in/PUBLIC-FINANCE-AMBAR-GHOSH-ebook/dp/B07W5F2P1Q	
3.	https://www.niti.gov.in/sites/default/files/202108/11_Rural_Economy_Discussion_Paper_0.pdf	

26PECE12 INSTITUTIONAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE12	Institutional Economics	Elective – II (1)	3	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the meaning, nature, and significance of institutions in economic systems						K1
CO2	Describe the concepts and approaches of New Institutional Economics.						K2
CO3	Analyse transaction costs and their role in economic governance.						K3
CO4	Examine property rights, contract theory, and principal–agent relationships.						K4
CO5	Evaluate institutional change and its impact on economic development.						K5
CO6	Apply institutional economic theories to contemporary economic issues in India.						K6

Module	Contents	Hours
I	Introduction Institutions: Meaning and definition, characteristics, functions and its role in economics – Types: Formal and informal institutions - Institutional governance in ancient India – Nature and Significance of institutional approach – Old Institutional approach: Veblen, Commons, Mitchell - institutions and economic development.	15
II	New Institutional Economics New Institutional Approach: Ownership – Externalities and Property Rights – Coase Theorem – Douglas’ Rules of the game – Ostrom’s Pool of Common Resources – Simon’s Bounded rationality – Third world development	15
III	Transaction costs Concept of transaction and transaction costs – estimation of transaction costs – Dimensions – Coase and Williamson Transaction costs economics – Opportunism – Governance	15
IV	Property Rights Development of property rights – externalities, norms and politics, determinants and impacts of property rights, monitoring and enforcement costs and nature of property rights, property rights – incentives – behavioural strategies – economic outcomes, allocation and rent seeking.	15

V	Institutional Evolution and Change Institutional change through learning and feedback, accidents of history, path dependence, incremental versus abrupt & discontinuous change, politics, political economy and institutional change, choosing institutions, measuring institutional quality and its effect on economic development.	15
Textbooks		
1.	Kapila, U. (2020) <i>Institutional Economics: Principles and Policy</i> . New Delhi: Academic Foundation.	
2.	Singh, K. (2015) <i>Institutional Economics and Economic Development</i> . New Delhi: Sage Publications India.	
3.	Mishra, S.K. and Puri, V.K. (2021) <i>Economic Environment of Business</i> . Mumbai: Himalaya Publishing House.	
Reference Books		
1.	North, D.C. (1990) <i>Institutions, Institutional Change and Economic Performance</i> . Cambridge: Cambridge University Press	
2.	Furubotn, E.G. and Richter, R. (2005) <i>Institutions and Economic Theory: The Contribution of the New Institutional Economics</i> . 2nd edn. Ann Arbor: University of Michigan Press.	
3.	Harris, J., Hunter, J. and Lewis, C.M. (eds.) (1995) <i>The New Institutional Economics and Third World Development</i> . London: Routledge.	
Web Source		
4.	https://ocw.mit.edu/?utm_source=chatgpt.com	
5.	https://winir.org/?utm_source=chatgpt.com	
6.	https://winir.org/research-priorities/	

26PECE12 REGIONAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE12	Institutional Economics	Elective – II (2)	3	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Have knowledge about planning in allocation of resources at regional level						K1
CO2	Understand the Nature and scope of regional economics and its need						K2
CO3	Discuss the Models of regional, inter-regional and multi-regional models						K3
CO4	Evaluate the various theories of regional economic growth						K4
CO5	Describes the Measurement of interregional economic growth at State level						K5
CO6	Apply Regional Aspects of Stabilization and Growth Policy						K6

Module	Contents	Hours
I	Introduction to Regional Economics Nature and scope of regional economics – Regional economics and regional science – Regional and Urban Economics: Need for a separate study of regional economics – Concept and types of regions: Administrative, Planning, Agro-climatic, Economic and Functional regions – Regional planning traditions in ancient India.	15
II	Theories of regional economic growth Neoclassical models – Dualistic models: Social dualism – Labour surplus model of Arthur Lewis- Migration and development: Harris-Todaro – Core-Periphery models: Myrdal's Cumulative Causation Hypothesis – Regional Input-output models - New Economic Geography models: Paul Krugman's model of industrial location and development.	15
III	Theories of regional economic growth Neoclassical models – Dualistic models: Social dualism – Labour surplus model of Arthur Lewis- Migration and development: Harris-Todaro – Core-Periphery models: Myrdal's Cumulative Causation Hypothesis – Regional Input-output models - New Economic Geography models: Paul Krugman's model of industrial location and development.	15
IV	Regional economic growth in India Administrative regions in India: State, District, Taluk and Village; Urban and Rural regions - Concept, definition and measure of State Income (GSDP) – Rural and urban GDP – Differences in estimation of national income (GDP) and State Income (GSDP) - Measurement of interregional economic growth at State level.	15

V	Regional Aspects of Stabilization and Growth Policy Post-war Regional Cyclical Behaviour and Policy Measures for Stabilization, Theories to Explain Regional Differences in Growth, Fiscal Programmes, Tax and Transfer Programmes, Regional Orientation to Policy Programmes and Central Responsibility	15
Textbooks		
1.	Capello Roberta. (2016). Regional Economics. Routledge (New York).	
2.	Temple, M. (1994). <i>Regional economics</i> . St. Martin's Press	
Reference Books		
1.	Harry W Richardson (1969) Regional Economics: Location theory, Urban structure and regional change, Weidenfeld & Nicolson (London).	
2.	Harry W. Richardson (1970) Elements of Regional Economics, Penguin Books (New York).	
Web source		
1.	http://www.rri.wvu.edu/WebBook/Giarratani/contents.htm	
2.	https://researchrepository	
3.	https://www.niti.gov.in/divisions/division/managing-urbanisation	

26 PECS11 ECONOMICS OF ARTIFICIAL INTELLIGENCE

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECS11	Economics of Artificial Intelligence	SEC	2	2	30	70	100
Course Outcomes	Description					Knowledge Level	
	On the Completion of the Course Learners will be able to						
CO1	Explain the basic concepts of AI and digital economy					K1	
CO2	Understand the role AI in Economy					K1, K2	
CO3	Identify the impact of AI on labour markets and employment					K2, K3	
CO4	Analyze how AI influences productivity and economic growth					K3, K4	
CO5	Interpret case studies on AI adoption in various sectors					K5	
CO6	Evaluate ethical and policy issues related to AI					K6	

Module	Contents	Hours
I	Introduction to Artificial Intelligence Artificial Intelligence: Meaning and evolution of AI – Difference between AI, Machine Learning, and Automation – AI in the Digital Economy – Role of Big Data and Algorithms – AI and Economic Decision Making.	6
II	AI and Labour Markets Role of AI in Labour Market – Impact on Automation on Employment – Skill-biased technological change – Wage inequality and job polarization - Gig economy and platform economy.	6
III	Artificial Intelligence and Economic Growth AI and total factor productivity – Innovation and creative destruction – AI in manufacturing and services – AI and digital platforms – Global competitiveness.	6
IV	Market Structure and Artificial Intelligence Network effects and digital monopolies – Data as an economic asset – Competition policy in digital markets – Pricing strategies in AI-driven firms.	6
V	Ethics, Policy and Regulation of Artificial Intelligence Data privacy and security – Algorithmic bias – AI governance and regulation – Role of Government and Public Policy – Dharma, responsibility, and ethical governance in AI systems.	6

Textbooks	
1.	Kapoor, D. (2021), <i>Digital Economy and Artificial Intelligence</i> , Sultan Chand & Sons, New Delhi.
2.	Goyal, A. and Bansal, S. (2022), <i>Artificial Intelligence for Business and Economics</i> , BPB Publications, New Delhi.
3.	Agrawal, A., Gans, J. and Goldfarb, A. (2019), <i>The Economics of Artificial Intelligence: An Agenda</i> , University of Chicago Press, Chicago.
4.	Parker, G.G., Van Alstyne, M.W. and Choudary, S.P. (2016), <i>Platform Revolution: How Networked Markets Are Transforming the Economy</i> , W.W. Norton & Company, New York.
Reference Books	
1.	Mishra, R.C. and Kumar, S. (2020), <i>Impact of Artificial Intelligence on Economic Development</i> , New Age International Publishers, New Delhi.
2.	Chakraborty, C. (2020), <i>Artificial Intelligence in Healthcare and Economics</i> , Springer India, New Delhi.
3.	Bansal, M.L. (2022), <i>Ethics and Governance in Artificial Intelligence</i> , Sage Publications India Pvt. Ltd., New Delhi.
Web Resources	
1.	https://niti.gov.in/frontier-tech-hub
2.	https://www.digitalindia.gov.in/initiatives/
3.	https://intelligence.weforum.org/topics/a1Gb0000000pTDREA2

Semester – II

26PECC21 ADVANCED MICROECONOMICS - II

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC21	Advanced Microeconomics –II	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Analyze strategic interactions using game theory						K4
CO2	Evaluate auction mechanisms and mechanism design						K5
CO3	Examine market failure and public goods						K3, K4
CO4	Interpret markets with asymmetric information						K4, K5
CO5	Explain general equilibrium theory						K4
CO6	Evaluate welfare economics and social choice theories						K4, K5

Module	Contents	Hours
I	Auctions and Game Theory Auctions: Concept, Classifications, Bidding Rules, Auction Designs, Forms of Auction, Position Auction – Two Bidders and More than two bidders – Problems with Auctions, the concept of Winner’s curve, Stable marriage problem, mechanism design. Game Theory: The payoff matrix of a game, Nash equilibrium, mixed strategies, prisoner dilemma, tit-for-tat – Repetitive and non-repetitive games. A game of entry deterrence – Application of Game theory.	18
II	Market Failure Market Failure and Sources of market failure: Externalities of production and consumption – public good: Characteristics, Free rider problem, public good and pareto efficiency – the theory of second best.	18
III	Market With Asymmetric Information Asymmetric information – Market for Lemons – Adverse selection in insurance market – Choice under uncertainty – N-M Index – Signaling and Screening.	18
IV	Theory of General Equilibrium Concepts of General Equilibrium - The Walrasian System, Existence, Uniqueness and Stability of an equilibrium. The Path to General Equilibrium. General Equilibrium (2 x 2 x 2 model): Equilibrium - in Consumption, Equilibrium in Production and Simultaneous Equilibrium of Production and Consumption. General Equilibrium and the Allocation of Resources, Prices of Commodities and Factors, Factor Ownership and Income Distribution.	18

V	Welfare Economics Pareto Optimality - Kaldor-Hicks compensation principle, Scitovsky Paradox, Posner wealth maximization - Grand Utility Possibility Frontier and Welfare Maximization - Constraint Bliss on utility possibility frontier. Social Welfare Functions and Social Choice: Bergson-Samuelson Model, Arrow's Model - Social welfare and collective well-being in Indian economic thought.	18
Textbooks		
1.	Jehle, G. A.,(2001) <i>Advanced microeconomic theory</i> , Pearson Education India.	
2.	Mankiw N.G. (2022) <i>Macroeconomics</i> , 11th ed. New York: Worth Publishers/Macmillan.	
3.	Pindyck, R.S. and Rubinfeld, D.L., (2023) <i>Microeconomics</i> , 9th ed. Harlow: Pearson Education, 2025.	
Reference Books		
1.	Gibbons, R. S., (1992) <i>Game theory for applied economists</i> , Princeton University Press.	
2.	Mas-Colell, A., Whinston, M. D., & Green, J. R., (1995) <i>Microeconomic theory</i> , Vol. 1, New York: Oxford university press.	
3.	Shapiro, C., & Varian, H. R. (1999) <i>Information rules: A strategic guide to the network economy</i> . Harvard Business Press.	
4.	Feldman, A. M., & Serrano R, (2006) <i>Welfare economics and social choice theory</i> , Boston, MA: Springer US.	
Web Resources		
1.	https://open.umn.edu/opentextbooks/textbooks/193	
2.	https://nptel.ac.in/courses	
3.	https://www.core-econ.org/about/	

26 PECC22 ADVANCED MACROECONOMICS - II

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC22	Advanced Macroeconomics - II	Core	4	6	30	70	100
Course Outcomes	Description					Knowledge Level	
	On the Completion of the Course Learners will be able to						
CO1	Explain neoclassical growth models and evaluate the impact of saving behavior					K2, K4	
CO2	Evaluate endogenous growth model and examine the role of R&D allocation, human capital, and social infrastructure					K3, K4	
CO3	Interpret empirical growth model studies which incorporate human capital and institutional factors.					K4, K5	
CO4	Analyze nominal adjustment and macroeconomic fluctuations with imperfect information model, and assess their implications for macroeconomic fluctuations.					K4, K5	
CO5	Construct and interpret Dynamic Stochastic General Equilibrium frameworks and New Keynesian Model.					K5, K6	
CO6	Distinguish inflation types and analyze Indian inflation trends.					K3, K5	

Module	Contents	Hours
I	Early Growth Models Solow Growth Model, The impact of a change in the Saving Rate, Applications of Solow Model, Infinite Horizon and Overlapping Generations Models: The Ramsey-Cass-Koopmans Model, The Diamond Model.	18
II	New Growth Theory Research and Development Model: Determinants of the allocation of resources to R&D, The Romer Model. Time Series Tests of Endogenous Growth Models, Extending the Solow model to include Human Capital, Accounting for Social Infrastructure and Cross, Country Income Differences - Knowledge economy and innovation in ancient Indian universities	18
III	Microeconomics foundations of Incomplete Nominal Adjustment Imperfect competition and price setting, Real rigidity, Coordination, Failure Models and Real Non- Walrasian Theories, The Lucas imperfect information model.	18

IV	Dynamic Stochastic General Equilibrium Models of Fluctuations Building blocks of dynamic New Keynesian Models, Predetermined Prices: The Fischer Model, Fixed Prices: The Taylor Model, The Calvo Model and the New Keynesian Phillips Curve, State dependent pricing, The Canonical New Keynesian Model.	18
V	Types of Inflation Types of inflation; Impact of inflation on macroeconomic activity; Cost-push and demand pull theories of inflation; Inflation in Indian economy over the years.	18
Textbooks		
1.	Mankiw, N.G. (2022). <i>Macroeconomics</i> . 11th ed. New York: Worth Publishers/Macmillan Learning.	
2.	Vaish, M.C. (2010). <i>Macroeconomic Theory</i> . 14th ed. New Delhi: Vikas Publishing House Pvt. Ltd.	
3	Dornbusch, R., Fischer, S. and Startz, R. (2018). <i>Macroeconomics</i> . 13th ed. New Delhi: McGraw Hill Education.	
Reference Books		
1.	Shapiro, E. (2017). <i>Macroeconomic Analysis</i> . New Delhi: Galgotia Publications.	
2.	Abel, A.B., Bernanke, B. S., Croushore, D., (2015) <i>Macroeconomics</i> , 8th edition, Pearson India Education Services Private Limited., Noida,	
3.	Jhingan, M.L. (2021). <i>Macroeconomic Theory</i> . New Delhi: Vrinda Publications.	
Web Sources		
1.	https://www.econlib.org/library/Enc/bios/Lucas.html	
2.	https://in.mathworks.com/company/newsletters/articles/simulating-the-ramsey-cass-koopmans-model-using-matlab-and-simulink.html	

26PECC23 STATISTICAL METHODS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC23	Statistics for Economics	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain fundamental statistical concepts and measures						K2, K3
CO2	Apply probability concepts and theoretical distributions						K3, K4
CO3	Perform parametric and non-parametric hypothesis testing						K3, K4
CO4	Analyze correlation and regression relationships						K4
CO5	Develop and evaluate multiple regression models						K5
CO6	Understand the least square method of estimation.						K4, K5

Module	Contents	Hours
I	Introduction to Statistics Measures of Central tendency: Mean, Median, Mode, Geometric mean, Harmonic mean – Measures of Dispersion: Range, Quartile deviation Mean deviation, Standard deviation; Skewness and Kurtosis - Lorenz Curve and Gini Coefficient.	18
II	Parametric and Non - parametric test Procedure of testing hypothesis - Tests of significance for large samples (Z); Tests of significance for small samples for t test - F test - ANOVA - Chi-square test – The Sign test - A rank sum test: The Mann – Whitney U test – The Kruskal Wallis or H test - Distinction between Parametric and Non-parametric tests.	18
III	Probability Probability: Meaning – Additive and Multiplicative law probability - Conditional probability - Bayes' Theorem – probability distribution: Binomial – Poisson and Normal.	18
IV	Correlation and Regression Partial and Multiple Correlation Partial correlation coefficient - Zero, first and second order coefficients; Significance of partial correlation coefficient; Multiple correlation – coefficient of multiple correlation; Reliability of estimates - Coefficient of multiple determination (R^2).	18
V	Estimation Estimator and estimate -Point and interval estimation- Reliability of an estimate- Mean Squared Error-Properties of a good estimator-Cramer-Rao Lower Bound-	18

	Methods of estimation-Least Squares, Method of Moments, Maximum Likelihood-Neyman-Pearson Theory.	
Textbooks		
1.	Gupta, Candrabhan B, <i>An introduction to statistical methods</i> , Vikas Publishing House. 2009.	
2.	Levine, D. M., Stephan, D. F., & Szabat, K. A., <i>Statistics for managers using Microsoft Excel</i> , Pearson Higher Ed., 2013.	
3.	Gupta, S.C. and Kapoor, V.K. Fundamentals of Mathematical Statistics , Twelfth Edition, Sultan Chand & Sons, New Delhi, 2020.	
Reference Books		
1.	Moore, D. S., McCabe, G. P., & Craig, B. A., <i>Introduction to the Practice of Statistics</i> , Vol. 4, p. 641, New York: WH Freeman, 2009.	
2.	Draper, N. R., & Smith, H, <i>Applied regression analysis</i> , Vol. 326, John Wiley & Sons. 1998.	
3.	Hollander M., Wolfe, D. A., and Chicken E, <i>Nonparametric statistical methods</i> , John Wiley & Sons, 2013.	
Web Sources		
1.	https://www.statista.com	
2.	https://techjury.net	
3.	https://dss.princeton.edu/online_help/analysis/interpreting-regression.htm	
4.	https://Khanacademy.org	

26PECE21 AGRICULTURAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE21	Agricultural Economics	Elective – III (1)	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the role and characteristics of agriculture in economic development.						K2
CO2	Analyze agricultural production systems, resource use, and productivity issues.						K4
CO3	Evaluate agricultural pricing, marketing, and government intervention policies.						K5
CO4	Assess rural credit, agricultural finance, and institutional support systems.						K5
CO5	Apply Indian traditional agricultural knowledge and sustainable farming practices.						K3
CO6	Develop skill-oriented understanding in agricultural data interpretation, farm budgeting, and rural entrepreneurship.						K6

Module	Contents	Hours
I	Agriculture and Economic Development Agricultural Economics: Nature and scope - Interdependence between agriculture and industry - Role of Agriculture in Economic Development – Agriculture and economic development - Role of agriculture in the Indian economy - Role of agriculture in the Indian economy - Lewis model in Agriculture – Schultz’s Transformation of Traditional Agriculture	15
II	Agricultural Production and Resource Economics Agricultural production function - Laws of returns in agriculture - Farm size and productivity debate – Indian traditional cropping systems, organic farming, seed preservation, and water harvesting - Irrigation and agricultural productivity - Green Revolution in India: achievements and limitations – Second Green revolution: Needs and importance.	15
III	Agricultural Price, Marketing and Trade Agricultural price policy in India - Minimum Support Price (MSP) - Agricultural marketing: meaning and functions - Regulated markets and e-NAM - Problems of agricultural marketing in rural areas - Warehousing and cold storage - Agricultural trade and WTO - Food security and Public Distribution System (PDS)	15
IV	Agricultural Finance and Rural Development	15

	Agricultural finance: nature and significance - Sources of rural credit: institutional and non-institutional - NABARD and cooperative credit institutions - Microfinance and Self-Help Groups (SHGs) - Rural indebtedness – Role and importance of crop insurance – role and structure of Farmer Producer Organizations (FPOs).	
V	Contemporary Issues in Indian Agriculture Climate change and Indian agriculture – economic perspective of Agricultural distress and farmer suicides – role and importance of digital marketing in Indian agriculture Women in agriculture: labour force participation and wage discrimination - Food processing and rural entrepreneurship - Inclusive agricultural development	15
Textbooks		
1.	Datt, R. and Sundharam, K.P.M. (2023). <i>Indian Economy</i> . New Delhi: S. Chand Publishing	
2.	Jhingan, M.L. (2021). <i>Economics of Agriculture</i> . New Delhi: Vrinda Publications.	
3.	Mamoria, C.B. (2018). <i>Agricultural Problems of India</i> . Agra: Kitab Mahal Publishers.	
Reference Books		
1.	Desai, V. (2020). <i>Agricultural Economics and Rural Development</i> . Mumbai: Himalaya Publishing House.	
2.	Agarwal, A.N. (2019). <i>Indian Agriculture: Problems, Progress and Prospects</i> . New Delhi: Vikas Publishing House.	
3.	Acharya, S.S. (2018). <i>Agricultural Marketing in India</i> . New Delhi: Oxford & IBH Publishing.	
Web Sources		
1.	https://onlinecourses.swayam2.ac.in/e-learning/preview/nou26_ma06	
2.	https://nptel.ac.in/?utm_source	
3.	https://icar.gov.in/index.php/en/ITK	

26PECE21 URBAN ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE21	Urban Economics	Elective – III (2)	4	5	30	70	100
Course Outcomes	Course Outcomes						Knowledge Levels
	On the Completion of the Course Learners will be able to						
CO1	Understand scope of urban economics and urban economic growth						K2, K3
CO2	Describe the process of urbanisation and classification of urban areas						K3, K5
CO3	Evaluate the various theories of urban growth and spatial structure						K2, K4
CO4	Explain the urban Labour Market, Labour Force Participation and Distribution of Workers						K1, K2
CO5	Familiarize the urban problems and planning process.						K4, K5
CO6	To analyse and evaluate urban related public policies						K4, K6

Module	Contents	Hours
I	Introduction Definition and Scope of Urban Economics - Sources of Urban Growth – International migration, Trends in growth of urban population in the world - Urban reclassification and physical expansion of urban boundaries –Urbanization and agglomeration economies – industrialization and services sector growth – Urbanization and urban economic growth – Urbanization and globalization.	15
II	Economics of Urbanization The Process of urbanization: Nature and dimensions, factors initiating and perpetuating urbanization process - Characteristics of an economy passing through different stages of urbanization - Classification of urban areas by demographic, geographical and economic criteria- Process of sub-urbanization - Town planning, drainage systems, and market organization in ancient India.	15
III	Theories of Urban Growth and spatial structure Christaller's Central Place Theory - The Human Ecological Approach to Urban Growth - Urban Size: Ratchet-Rank Size Rule - Migration and urban economic growth: Harris-Todaro Model – Concepts of City Structure - The Minimization of Costs of Friction Hypothesis - Location Equilibrium of an Urban Firm - The Concentric Zone Hypothesis - Urban Residential Land Use Models: Alonso, Muth, Siegel, Park Burgess.	15

IV	Urbanization and Labour Market Urbanisation and Labour Market - Pull and Push Factors for Urbanisation in India - High Wages and Improved Infrastructure - Employment Opportunities and Educational facilities - Growth of formal and Informal economic activities - Labour Force Participation and Distribution of Workers.	15
V	Urban Problems and Urban Planning Over Population and congestion - Urban housing problem - Urban environment: Air, Water and Noise Pollution - Urban poverty and inequality - Urban Infrastructure: transport Water Supply, Sanitation and Solid waste management - Need for Urban Planning: Objectives and Techniques - Emerging Planning Process - Comprehensive Development Plan – Master Plan – Jawaharlal Nehru National Urban Renewal Mission - Smart Cities.	15
Textbooks		
1.	Shukla, V. (1996) Urbanization and Economic Growth, Himalaya Publishers Pvt. Ltd (New Delhi).	
2.	Robert L Bish and Hugh O Nourse (1975), Urban Economics and Policy Analysis, McGraw Hill Kogakusha Ltd (Tokyo).	
3.	O' Sullivan (2012), Urban Economics, McGraw Hill Higher Education (Boston).	
Reference Books		
1.	Edwin S. Mills. (1987). Handbook on Regional and Urban Economics, Volume 2: Urban Economics. North-Holland (Amsterdam).	
2.	Duranton, G., & Strange, W. C. (1986). <i>Handbook of regional and urban economics: applied urban economics</i> (Vol. 3). Elsevier.	
Web Sources		
1.	https://link.springer.com › bfm:978-1-349-15661-0 › 1.pdf	
2.	https://niua.in/knowledge-hub	
3.	https://unhabitat.org/?utm_source	

26PECE22 FISCAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE22	Fiscal Economics	Elective – IV (1)	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the role and functions of government in public finance						K2
CO2	Analyze principles and theories of taxation						K3
CO3	Evaluate fiscal policy and government budgetary position						K4
CO4	Assess fiscal federalism and intergovernmental finance						K5
CO5	Interpret theories of public expenditure						K5
CO6	Apply cost–benefit analysis in public decision making						K5,K6

Module	Contents	Hours
I	Role of Government Nature and scope of public finance – Rationale for government intervention - Types of government intervention - Musgrave’s three function of Government: allocation, distribution and stabilization – Public goods and externalities- merit goods - Samuelson theory - Free rider problem – horizontal and vertical summation.	15
II	Taxation Taxation: Canons of taxation - Theories of taxation – Ability and benefit principles of taxation (Lindhal) – Principle of maximum social advantage – Types of Taxes – Measuring of taxation - Dead weight loss – Theory of taxation: Theory of optimal taxation – Modern theory of incidence - Shifting - Taxation principles in Kautilya’s Arthashastra - Tax reforms in India – Tax slab rates in India under GST.	15
III	Budget Analysis and Deficit Financing Meaning and concept – types of budget – Principles of budget – Deficit financing: Need and impact of deficit financing – The budget deficit in recent years – Monetarist versus Keynesian views on deficit financing.	15
IV	Fiscal Federalism Meaning and Importance of Federal Finance - Optimal fiscal federalism: Tiebout model - Fiscal federalism in India - Functions and role of financing Commission – Recommendations of the last three finance commission - Centre-	15

	state financial relations in India – Finance and Performance of local bodies – Tiebout model.	
V	Public Expenditure, Revenue and Debt Causes of rising public expenditure - Theories of public expenditure: Wagner's – Law - Peacock- Wiseman's hypothesis - Colin Clark Hypothesis - Public revenue: Meaning-Types-sources of Public revenues – Public debt: Causes and classification of public debt – Burden of public debt: Ricardo-Pigou – Buchanan and Musgrave Theses – Redemption of public debt.	15
Textbooks		
1	Musgrave, R.A. and Musgrave, (2017) <i>Public Finance in Theory and Practice</i> , McGraw Hill Education India, New Delhi.	
2	Tyagi B.P., (2020) <i>Public Finance</i> , Jai Prakash Nath & Co., Meerut.	
3	Bhatia H.L, (2012) <i>Public Finance</i> , Vikas Publishing House, New Delhi.	
Reference Books		
1	Stiglitz, Joseph E, (2000) <i>Economics of Public Sector</i> , Third Edition, W.W. Norton & Co.,	
2	Singh, S.K., (2018) <i>Public Finance in Theory and Practice</i> , S. Chand Publishing, New Delhi.	
3	Andley, K.K. and Sundharam, K.P.M., (2019) <i>Public Economics and Public Finance</i> , Ratan Prakashan Mandir New Delhi.	
4	Mithani, D.M., <i>Principles of Public Finance and Fiscal Policy</i> , Himalaya Publishing House, Mumbai 2022.	
Web Resources		
1	https://www.indiabudget.gov.in/	
2	https://www.india.gov.in/my-government/documents/policy	
3	http://fincomindia.nic.in	

26PECE22 WELFARE ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE22	Welfare Economics	Elective – IV (2)	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Summarize the Contribution to Welfare Economics						K1,K2
CO2	Analyse the different approaches to Welfare Economics						K3,K4,
CO3	Interpret the development of Pareto Optimality Conditions						K1,K2,K3
CO4	Explain the compensation Criteria of Economics						K2,K5
CO5	Evaluate theories of Social Choice.						K2,K4,K5
CO6	Make students to develop and formulate resource allocation to maximise social welfare						K6

Module	Contents	Hours
I	Introduction Welfare Economics: meaning, definition, scope and significance - Concepts of welfare – classification of welfare – Individual welfare and group welfare - General welfare and Economic welfare - Welfare Economics: normative and positive views - Public Goods and Market Failure – Theory of Second Best - Role of value judgments in welfare economics.	15
II	Welfare Criteria GNP as a welfare criterion (Adam Smith) - Bentham’s criterion – Cardinalist: Marshall and Pigou - New welfare Economics: Pareto optimality – Marginal conditions for Pareto optimality - Rehabilitation of Paretion welfare Economics: Kaldor-Hicks-Samuelson criterion - Rawl’s theory of social justice - Scitovsky’s paradox - Social welfare function : Bergson and Samuelson.	15
III	Obstacles to Pareto Optimality Pareto Optimality and perfect competition: exceptions and Externalities in production and consumption – Pareto optimal ties and monopoly – Pareto optimality and imperfect competition: Optimum resource allocation under capitalism and socialism -Socialism as a welfare ideal: Hayek and Robbins.	15
IV	Recent Developments in Welfare Economics Traditional welfare economics: axioms and their critique, endogeneity of preference, conflict between individual and social rationality, impracticability of redistribution of resources, the principle of normative individualism,	15

	evolutionary approach to social welfare, replacement of traditional paradigm of welfare by human development, institutional restructuring of individual choices.	
V	Behavioral Economics Introduction: From Game Theory (GT) to Behavioral Game Theory (BGT) - Experimental Regularities – Dictator, Ultimatum, and Trust Games – Mixed Strategies – Bargaining – Dominance-Solvable Games – Coordination Emotions and Decision-making -What are Emotions - Visceral Factors - Emotions and Economics- Contribution of Richard H. Thaler towards Behavioural Economics.	15
Textbooks		
1.	Verma K.N (2012) Microeconomic Theory, Vishal Publishing House	
2.	Per-Olov Johansson (2009) An introduction to Modern Welfare Economics, Cambridge University Press.	
3.	Sachdeva, M.B. (2010). <i>Welfare Economics</i> . New Delhi: Sublime Publications	
Reference Books		
1.	Bossert, Walter and Kotaro Suzumura (2010) Consistency, Choice and Rationality, Harvard University Press: Cambridge MA	
2.	Dutta, B. (1998). <i>Welfare Economics</i> . New Delhi: Oxford University Press India	
3.	Kanthimathinathan, S. (2022). <i>Welfare Economics</i> . Chennai: Manglam Publications.	
Web Sources		
1.	https://ocw.mit.edu/courses/1-74-land-water-food-and-climate-fall-2020/	
2.	https://ifs.org.uk/?utm_source=chatgpt.com	
3.	https://ocw.mit.edu/search/?q=Welfare%20Economics	

26PECS21 Environmental Economics Tools

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECS21	Environmental Economics Tools	SEC	2	2	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain basic environmental economic concepts and externalities						K2, K3, K4
CO2	Apply cost-benefit analysis to simple environmental projects						K3, K4, K5
CO3	Interpret environmental valuation methods						K3, K4
CO4	Analyze market-based instruments for pollution control						K3, K4
CO5	Evaluate sustainability indicators and environmental policies.						K3, K4, K5
CO6	Measure SDGs in Indian context.						K5, K6
Module	Contents						Hours
I	Basics of Environmental Economics Environment and economy linkage - Market failure and externalities - Public goods and common property resources - Tragedy of the commons.						6
II	Environmental Valuation Tools Total Economic Value (TEV) - Use and Non-use values – Contingent valuation method (basic idea) - Hedonic pricing (introductory level)						6
III	Cost-Benefit Analysis Steps in Cost-Benefit Analysis - Discounting and present value - Social cost vs private cost - Environmental project appraisal (basic examples).						6
IV	Market-Based Instruments Pollution tax (Pigouvian tax) – Subsidies - Tradable pollution permits - Carbon tax (introductory idea).						6
V	Sustainability Tools Sustainable development concept - Ecological wisdom in Vedic literature. - Environmental Impact Assessment (EIA) - Green GDP - SDG indicators.						6
Textbooks							
1.	Field, B. C., & Field, M. K. (2016). <i>Environmental economics</i> . New York, Estados Unidos de América: McGraw-Hill.						
2.	Kolstad, C. D. (2011). <i>Intermediate environmental economics</i> . Oxford University Press.						
Reference Books							
1.	Field, B. C., & Field, M. K. (2021). <i>Environmental economics: An introduction</i> (8th ed.). McGraw-Hill Education.						
2.	Harris, J. M., & Roach, B. (2021). <i>Environmental and natural resource economics: A contemporary approach</i> (5th ed.). Routledge.						

3.	Thampapillai, D. J., & Ruth, M. (2024). <i>Environmental economics: Concepts, methods and policies</i> . Routledge.
Web Sources	
1.	https://www.unep.org/?utm_source=chatgpt.com
2.	https://epi.yale.edu/?utm_source=chatgpt.com
3.	https://www.fao.org/faostat/en/#data

Extension Activity

STAND (Student Training and Action for Neighbourhood Development)

SEMESTER - II

CREDITS - 1

Semester – III

26 PECC31 DEVELOPMENT ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC31	Development Economics	Core	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Understand the concepts of growth and development						K1, K2, K3
CO2	Acquire knowledge about the theories of economic development						K1, K2, K3
CO3	Ability to understand the concepts related to Poverty, Inequality, Health and Education						K1, K2, K3
CO4	Understand theories of underdevelopment						K4, K5
CO5	Gain knowledge about the insights of Rural Development						K3, K4, K5
CO6	Understand and formulate trade policies for Market development						K5, K6

Module	Contents	Hours
I	Introduction conceptualizing development Growth and development: meaning, concept and differences – Approaches to development: Traditional and modern approaches to development - Trickle-down effect - India's Development experience (Kerala-Gujarat- Tamil Nadu and BIMARU models of Development) - Human Development Index - Gandhian model of development.	15
II	Capital Accumulation, Technological Progress Classical Growth Theories: Smith and Ricardo – Harrod-Domar model – Exogenous Growth Model: Solow-Swan – Theory of Technical progress: Kaldor - Capital Accumulation Model: Joan Robinson – Overview of Endogenous growth model – Invention, Innovation and Diffusion: Schumpeter - Disembodied and Embodied Technical Change.	15
III	Theories of Underdevelopment Dualism and Backward Bending Supply Curve - Vicious Circle of Poverty - Nelson's Low Level Equilibrium Trap - Critical Minimum Effort - Paul Baran's Theory of Underdevelopment - Myrdal's Theory of Cumulative Causation - Kremer's O-Ring theory of development - Dependency theory: Central Propositions, policy implications and Criticisms of Dependency Theory.	15

IV	Economic Inequality Poverty: meaning, absolute and relative poverty – poverty line (head - count ratio) – inequality: concept and meaning, Lorenz curve – Gini – coefficient - Inverted-U hypothesis – Regional disparities: α convergence and β convergence – divergence – multi dimension of poverty.	15
V	Agriculture and Rural Development Role of agriculture in development: Johnston and Mellor – Dual model - Theories of agricultural development: Lewis, Schultz, Mellor, Hayarni and Ruttan – Migration and Agricultural Development: Nichols and Todaro Model - Rural - Urban migration: Todaro model – Rural credit markets: providers, characteristics.	15
Textbooks		
1.	Thirlwall, A. P., & Pacheco-López, P. (2017). <i>Economics of development: Theory and evidence</i> (11th ed.). Palgrave Macmillan.	
2.	Debraj, R. (2009). <i>Development economics</i> . Princeton University Press.	
Reference Books		
1.	Bardhan, P. (2010). <i>Awakening giants, feet of clay: Assessing the economic rise of China and India</i> . Princeton University Press.	
2.	Meier, G. M. (2005). <i>Leading issues in economic development</i> (8th ed.). Oxford University Press.	
3.	Bhattacharya, D. (Ed.). (2016). <i>Development experience and emerging challenges: Essays in honour of Rehman Sobhan</i> . Routledge.	
Web Sources		
1.	https://data.worldbank.org/?utm_source=chatgpt.com	
2.	https://sdgs.un.org/goals?utm_source=chatgpt.com	
3.	https://www.adb.org/?utm_source=chatgpt.com	

26PECC32 INTERNATIONAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC32	International Economics	Core	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Understand Theories of International trade						K2, K3
CO2	Learn the Recent Theories in International trade						K2, K3
CO3	Ability to know the concept of Balance of Payments Policies						K3, K4
CO4	Assess the working of MNCs, Foreign Aid						K2, K3
CO5	Understand the working of Foreign Exchange						K4, K5
CO6	Assess impact of FDI and exchange rate						K5, K6
Module	Contents						Hours
I	Theories of Trade – I Pure Theory of International Trade: Absolute and Comparative Advantage Theory - Refinements of Comparative Cost Theory - Modern Theory of Factor Endowments: Heckscher-Ohlin-Samuelson - Leontief Paradox - Factor price equalization theorem – Factors Intensity Reversal: The Stolper - Samuelson Theorem and the Rybezynski Theorem - Ancient India's international trade networks						15
II	Theories of Trade – II Recent Theories of International Trade: Karvi's Theory of Availability – Lindar's Theory of Volume of Trade and demand pattern- Posner's Technological Gap Theory – Vernon's Product Cycle Theory - Kenen's Human capital theory- Intra- Industry Trade – Theory of Imperfect Competition - Strategic Theory.						15
III	Balance of Payment Balance of Payments Policies: BOP Disequilibrium – Adjustment Mechanism: Elasticity Approach, Absorption approach and Monetary Approach- Expenditure changing monetary and fiscal policy – Monetary and Fiscal policies for internal and external balance: The Swan and Mundallian Model - Expenditure Switching Policies and Expenditure Reducing Policies – Foreign Trade Multiplier.						15
IV	Foreign Aid Foreign Aid and MNCs. Foreign Aid - Types of Foreign aid – Advantages and Disadvantages – Factors determining foreign aid - Foreign Investment – Foreign Direct investment – Types of FDI – FDI Policy of India- Multinational						15

	Corporations – Features of Multinational Corporations - Advantages and Limitations of MNCs – MNCs and International Trade.	
V	Foreign Exchange Foreign Exchange Risk: meaning and concept of Foreign exchange risk - Sources of foreign exchange risk – types of exchange rate risk - Transaction risk, Translation risk, Economic risk Measurement of Exchange Rate Risk - value-at-risk (VAR) model. Methods of managing foreign exchange risk - internal and external techniques- Forward contracts, Money market hedges, Currency futures, Currency Options, Currency swaps.	15
Textbooks		
1.	Dominick Salvatore (2021) International Economics, 13 Edt., An Indian Adaptation, Wiley India Pvt. Limitation.	
2.	Dwivedi D. N. (2013) International Economics: Theory And Policy. Vikas Publishing House, New Delhi.	
3.	M.L. Jhingan (2016) International Economics, Vrindha Publications, New Delhi	
Reference Books		
1.	Francis Cherunillam (2004), International Economics (Tata McGraw Hill, New Delhi).	
2.	Paul Krugman and Maurice (2013), International Economics: Theory and Policy Obstfeld (New Delhi: Pearson).	
3.	Bhagwati (2003), Free Trade Today (Oxford University Press, New Delhi). State Integrated Board of Studies – Economics PG 20.	
Web Sources		
1.	https://www.worldbank.org/en/country/eu	
2.	https://www.imf.org/en/Data	
3.	https://www.economagic.com/	

26PECC33 RESEARCH METHODOLOGY

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC33	Research Methodology	Core	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the meaning, types, and methods of research in economics.						K1, K2, K3
CO2	Formulate research problems, research questions, and hypotheses.						K4, K5, K6
CO3	Apply data collection methods, sampling techniques, and questionnaire design.						K3, K4, K5
CO4	Compare research designs and understand research ethics and plagiarism.						K4, K5
CO5	Apply statistical inference and hypothesis testing in economic research.						K3, K4
CO6	Prepare and present structured research reports and research papers.						K4, K5, K6

Module	Contents	Hours
I	Research in Economics Meaning of research, Types of research: quantitative and Qualitative, methods of social research; deductive and inductive methods, Falsification Theory, Review of Literature: scope, purposes and sources of literature review, Research Gap, Research Questions, formulation of Research problem, Hypothesis: meaning and types.	15
II	Data Collection Sources of Data: Primary and secondary, types of data: times series, cross section and pooled data, Census and sample survey, Census Vs sampling, probability and non-probability sampling Techniques, methods of data collection: interview, focused group discussion, observation, case study and content analysis, tools of data collection: construction of questionnaire and schedule, pilot study and pre-test - Indigenous approaches to inquiry, observation, logic, and evidence.	15
III	Research Design Research Design: Meaning, significance and features, types of research designs: Descriptive, Correlational, Experimental, Diagnostic and Explanatory, Grounded Theory designs, Ethnographic designs, Narrative Research designs, Mixed Methods Design, Action Research Design, Case	15

	study method, Ethical Problems in the Early Years of the Twentieth Century, Ethics and Plagiarism,	
IV	Data Analysis Statistical Inferences, Parameter and Statistics, good estimator, Level of Significance, Standard Error, Confidence interval, Null and Alternative hypothesis, Type I Error and Type II Error, Critical region, Steps in Testing of Hypothesis.	15
V	Report Writing Report Writing: abstract, steps in report writing, Layout of report writing, Chapterisation, types of report writing, Mechanics and Precautions for Writing Research Reports, Preliminaries, Contents of Report, References, Bibliography, Appendices, Criteria for the evaluation of the Research Report, writing a research paper.	15
Textbooks		
1.	Kothari, C. R. (2004). <i>Research methodology: Methods and techniques</i> . New Age International.	
2.	Kumar, R. (2018). <i>Research methodology: A step-by-step guide for beginners</i> .	
Reference Books		
1.	Youn, Pauline V., (1977) <i>Scientific Social Survey and Research</i> , 4 th Edition, Prentice Hall of India.	
2.	Bryman, Alan, (2008) <i>Social research methods</i> , 4 th Edition, Oxford University Press.	
3.	Kumar, R. (2018). <i>Research methodology: A step-by-step guide for beginners</i> .	
Web Sources		
1.	www.socialresearchmethods.net	
2.	www.ualberta.ca	
3.	http://finmin.nic.in	

26PECC34 ECONOMETRICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC34	Econometrics	Core	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Examine the meaning and applicability of dummy variables						K1, K2
CO2	Estimate the Auto Regressive model and the role of lags in dynamic econometric models						K3, K4
CO3	Identify the problems of ignoring OLS assumptions						K3, K4
CO4	Gain in-depth knowledge in Simultaneous equation models						K2, K4
CO5	Analyze the stochastic process and co-integration model						K3, K5
CO6	To build and create new econometric model and tools						K5, K6

Module	Contents	Hours
I	Introduction to Econometrics Econometrics: Meaning, Nature, Scope, Tools and types of econometrics – Uses of econometrics - methodology of econometrics - Mathematical – Statistical and Econometric Model — Population and sample regression function - Significance of stochastic error term – Limitations of econometrics.	15
II	Simple Linear Regression Model SLRM: Meaning and concept - Method of ordinary least squares - Assumptions of OLS - Properties of OLS estimators - Gauss Markov theorem - regression co-efficient - co-efficient of determination (R^2) - Normality assumption – Interpretation of SLRM: t and F tests and P value – Application of SLRM in Economics.	15
III	Multiple Regression Analysis MLRM: meaning and concept – MLRM with three variables – estimate partial regression coefficients – Assumptions of MLRM – Violation of OLS assumptions and rectification of it - Multiple co-efficient of determination R^2 and adjusted R^2 – degrees of freedom - Hypothesis testing – Testing the overall significance of the regression – F test – Testing the equality of two regression co-efficients – Matrix Notation.	15
IV	Dummy Variable Dummy Variables: meaning and nature of Dummy Variables – ANOVA: meaning and types - ANCOVA Models - Dummy Variable alternative to Chow test - Uses of Dummy Variables - Seasonal Analysis - Piecewise Linear Regression - Qualitative Regression Model: Logit, Probit and Tobit Model.	15

V	Time Series Econometrics Introduction to Time Series Econometrics: Stochastic Process – Stationary and Non Stationary stochastic process – Unit root stochastic process – Trend stationary and difference stationary stochastic process – Integrated stochastic process – Properties – Unit root tests – Co-integration Model.	15
Textbooks		
1.	Studenmund, A. H. (2014). <i>Using econometrics a practical guide</i> . Pearson education limited.	
2.	Wooldridge (2013) <i>Introductory Econometrics: A Modern Approach</i> , Fifth Edition Jeffrey M. Wooldridge, South-Western 5191 Natorp Boulevard Mason.	
Reference Books		
1.	A Koutsoyiannis (1997) <i>Theory of Econometrics</i> , Second Edition, Macmillan Press, London.	
2.	Damodar N.Gujarati & Sangeetha (2019) <i>Basic Econometrics</i> Tata McGraw-Hill Publishing company Limited, New Delhi.	
3.	Suresh, J. Ghosh (1994), <i>Econometric Theory and Applications</i> [Prentice Hall of India, New Delhi],	
Web Sources		
1.	https://learneconometricsfast.com .	
2.	https://inomics.com .	
3.	https://economicsnetwork.ac.uk	

26PECC35 INDUSTRIAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC35	Industrial Economics	Core	4	5	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Recognize the importance of industrial size and location.						K1, K2, K4
CO2	Understand the significance of spatial pricing policies.						K4, K5
CO3	Identify the problems of ignoring OLS assumptions						K3, K4
CO4	Gain in-depth knowledge in Simultaneous equation models						K2, K4
CO5	Analyze the stochastic process and co-integration model						K3, K5
CO6	To build and create new econometric model and tools						K5, K6

Module	Contents	Hours
I	Nature and Scope of Industrial Economics Meaning, nature, and scope of Industrial Economics — Role of industries in economic development — Industrialization in India — Large-scale, small-scale, cottage, and micro industries — Industrial structure in India — Industrial development during planning and post-reform period — Rostow's Theory of Stages of Growth — Balanced and Unbalanced Growth Theory — Lewis Theory of Industrialization — Industrial productivity and employment.	12
II	Industrial Location and Market Structure Industrial location: meaning and importance — Weber's Theory of Industrial Location — Sargant Florence Theory — Factors influencing industrial location — Industrial concentration and regional imbalance — Market structure: perfect competition, monopoly, monopolistic competition, and oligopoly — Bain's Theory of Barriers to Entry — Structure-Conduct-Performance (SCP) approach — Industrial efficiency and economies of scale.	12
III	Industrial Pricing, Investment and Industrial Policy Industrial pricing: objectives and methods — Full-cost pricing theory — Marginal cost pricing — Administered pricing — Industrial investment decisions — Accelerator and investment theories — Industrial finance and capital formation — Industrial policy resolutions in India — Liberalization, Privatization, and Globalization (LPG) reforms — Public sector and privatization in India — Make in India and MSME policies.	12

IV	Industrial Labour and Industrial Relations Industrial labour: characteristics and problems — Wage theories including Subsistence Wage Theory, Marginal Productivity Theory, and Collective Bargaining Theory — Trade unions and industrial disputes — Industrial relations and labour welfare — Labour legislation in India — Social security measures — Industrial productivity and efficiency — Human capital and skill development — Labour reforms in India.	12
V	Contemporary Issues in Industrial Development Industrial pollution and environmental concerns — Sustainable industrial development — Digital industrialization and Industry 4.0 — Women entrepreneurship in India — Industrial sickness and rehabilitation — Foreign Direct Investment (FDI) and multinational corporations — Start-up ecosystem in India — Industrial competitiveness and globalization — Future of Indian industries.	12
Textbooks		
1.	Barthwal, R.R. (2020). <i>Industrial Economics: An Introductory Text Book</i> . New Delhi: New Age International Publishers.	
2.	Cherunilam, F. (2021). <i>Industrial Economics: Indian Perspective</i> . Mumbai: Himalaya Publishing House.	
Reference Books		
1.	Singh, A. and Sadhu, A.N. (2019). <i>Industrial Economics</i> . Mumbai: Himalaya Publishing House.	
2.	Bhagwati, J. and Desai, P. (2015). <i>India: Planning for Industrialization</i> . New Delhi: Oxford University Press India.	
3.	Desai, V. (2018). <i>Industrial Economy in India</i> . Mumbai: Himalaya Publishing House.	
Web Sources		
1.	https://dashboard.msme.gov.in/	
2.	https://www.startupindia.gov.in/content/sih/en/women_entrepreneurs.html	
3.	https://www.dpiit.gov.in/documents/acts-and-policies?page=1	

26PECE31 COMPUTER APPLICATIONS IN ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE31	Computer Applications in Economics	Elective - V (1)	3	4	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the types and sources of data used in economic analysis.						K2, K3, K4
CO2	Create and format professional documents using MS Word and basic PPT tools.						K3, K4, K5
CO3	Organize and present economic data using MS Excel charts and graphs.						K3, K4
CO4	Apply Excel formulas and statistical functions for economic data analysis.						K3, K4
CO5	Perform and interpret statistical tests using Excel						K3, K4, K5
CO6	Manage datasets and conduct statistical analysis using SPSS						K5, K6

Module	Contents	Hours
I	Introduction of Data and M.S Word Data: Meaning, Nature: ordinal and cardinal, Sources (primary and secondary) and Types (Quantitative and Qualitative) – Importance of data in economic analysis and Policy formation – Methods of Data Analysis. MS Word: Creating new Documents – Document template – Typing Text – Editing Text – Insert Text – Go to, Find, and Replace text or word - Formatting of Text – generating equations – making references – track changes, Basic word document preparation (CV and PPT).	12
II	Graphical presentation in Excel MS- excel basics, charts: column, trend line, pie, bar and area charts – sorting and filtering data - histogram – box plot - scatter plot, creating charts for GDP trends.	12
III	Functions and Descriptive Statistics in Excel <i>Basic Formulas:</i> Subtract, Multiply, Divide, Square Root, Percentage, Paste Options, simple and compound growth rate. <i>Statistical Functions:</i> Average, Average if, Median, Mode, Variance, Standard Deviation, Min, Max, Large and Small - Forecast – descriptive statistics	12

IV	Inferential Statistics in Excel Inferential statistics – F test, t – test, moving average, ANOVA – Chi-square (χ^2) statistics, correlation – regression: R square, significance, F and P values, coefficient and residuals.	12
V	Data Analysis Using SPSS Data view - characteristics of Variable view – output viewer - Naming variables - Coding and Recoding of data – compute new variable – Descriptive Statistics: Frequencies, Descriptive, Cross Tabulation - correlation and regression (Only SLRM).	12
Textbooks		
1.	Lambert, J. (2022). <i>Microsoft Office 365 step by step</i> (2nd ed.). Microsoft Press.	
2.	Levine, D. M., Stephan, D. F., Szabat, K. A. (2019). <i>Statistics for Managers Using Microsoft Excel</i> . Pearson.	
Reference Books		
1.	Field, A. (2018). <i>Discovering Statistics Using IBM SPSS Statistics</i> . Sage Publications.	
2.	Albright, S. C., & Winston, W. L. (2017). <i>Business Analytics: Data Analysis and Decision Making</i> . Cengage Learning.	
3.	Walkenbach, J. (2015). <i>Excel Bible</i> . Wiley.	
4.	Kumar, R. (2014). <i>Research Methodology: A Step-by-Step Guide for Beginners</i> . Sage Publications.	
Web Sources		
1.	https://support.microsoft.com/excel	
2.	https://www.ibm.com/docs/en/spss-statistics	
3.	https://dbie.rbi.org.in	

26PECE32 PRACTICAL: COMPUTER APPLICATIONS IN ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE31	Computer Applications in Economics	Elective - VI	2	2	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Create professional documents, reports and presentations using MS Word and PowerPoint.						K3, K4
CO2	Prepare and visualize economic datasets using MS Excel charts and formatting tools.						K3, K4
CO3	Apply Excel formulas and descriptive statistical functions to economic data.						K3, K4, K5
CO4	Perform inferential statistical analysis using Excel Data Analysis ToolPak.						K4, K5
CO5	Manage datasets and perform statistical analysis using SPSS for economic research.						K5, K6
CO6	Manage datasets and conduct statistical analysis using SPSS						K5, K6

Module	Contents	Hours
I	MS WORD AND POWERPOINT APPLICATIONS Creating, saving and organizing documents - Formatting text using fonts, styles and themes - Page setup, margins, headers and footers - Creating tables for economic data - Inserting equations, symbols and references - Find, Replace and Track Changes - Preparing Curriculum Vitae (CV) - Preparing an Economic Project Report - Designing PowerPoint presentations with charts, images and animations - Preparing seminar presentation slides.	12
II	Data Management and Graphical Presentation Using Excel Data entry and worksheet management - Formatting worksheets - Sorting and filtering economic datasets - Creating Column Charts - Pie Charts - Bar Charts - Area Charts - Line Charts with Trend Line - Scatter Diagram – Histogram - Box Plot - Preparation of GDP trend charts - Preparation of inflation and unemployment graphs	12
III	Excel Formulas and Descriptive Statistics Basic arithmetic formulas - Percentage calculations - Square Root - Absolute and Relative Cell References - Paste Special - Growth Rate Calculation - Compound Growth Rate – Average – Median – Mode - Minimum and Maximum - Large and Small Functions – Variance - Standard Deviation -	12

	Forecast Function - Generating Descriptive Statistics using Data Analysis ToolPak.	
IV	Inferential Statistics Using Excel Enabling Data Analysis ToolPak - F-Test - Independent Sample t-Test - Paired Sample t-Test - One-way ANOVA - Chi-square Test - Correlation Analysis - Simple Linear Regression - Interpretation of Regression Output - Moving Average - Trend Analysis - Preparation of Statistical Reports	12
V	Data Analysis Using SPSS Creating a New Data File - Variable View and Data View - Defining Variables - Coding and Recoding Variables - Computing New Variables - Importing Excel Data into SPSS - Frequency Distribution - Descriptive Statistics - Cross Tabulation - Correlation Analysis - Simple Linear Regression - Exporting Output - Interpretation of SPSS Results.	12
Textbooks		
1.	Lambert, J. (2022). <i>Microsoft Office 365 step by step</i> (2nd ed.). Microsoft Press.	
2.	Levine, D. M., Stephan, D. F., Szabat, K. A. (2019). <i>Statistics for Managers Using Microsoft Excel</i> . Pearson.	
Reference Books		
1.	Field, A. (2018). <i>Discovering Statistics Using IBM SPSS Statistics</i> . Sage Publications.	
2.	Albright, S. C., & Winston, W. L. (2017). <i>Business Analytics: Data Analysis and Decision Making</i> . Cengage Learning.	
3.	Walkenbach, J. (2015). <i>Excel Bible</i> . Wiley.	
4.	Kumar, R. (2014). <i>Research Methodology: A Step-by-Step Guide for Beginners</i> . Sage Publications.	
Web Sources		
1.	https://support.microsoft.com/excel	
2.	https://www.ibm.com/docs/en/spss-statistics	
3.	https://dbie.rbi.org.in	

26PECE31 ECONOMICS OF CLIMATE CHANGE

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE31	Economics of Climate Change	Elective - V (2)	3	4	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Define and explain the science of climate change.						K2, K3, K4
CO2	Explain and identify the climate change policy.						K3, K4, K5
CO3	Illustrate and analyses the integrated assessment of climate changes.						K3, K4
CO4	Classify, compare and evaluate climate change impact assessment.						K3, K4
CO5	Estimate and illustrate the climate change negotiations and equity.						K3, K4, K5
CO6	Estimate resource allocation to maintain environment sustainability.						K5, K6

Module	Contents	Hours
I	Introduction The roots of climate change: greenhouse gas emissions and rising global temperature- Climate change and economic development: a) climate change – economy transmission mechanisms; b) impact of climate change on human well-being: known and uncertain impacts c) The “tipping points” of dangerous climate change- Impact of climate change on developed and poor economies.	12
II	Economic Policies for Climate change Mitigation The need for climate change mitigation- Economic explanation of climate change: the concept of “market failure” and how it causes climate change- Using prices and markets for climate change mitigation: taxes, carbon emissions trading (‘cap-and-trade’) and regulations promoting green technology- Ethics of climate change: limits of cost-benefit analysis.	12
III	Adapting to Climate Change The case for Adaptation to climate change- Adaptive management of risk: managing physical, financial and social risks- International action and adaptation in developing nations.	12
IV	Natural Resources Management and Climate Change) The fundamentals for natural resource management - Economics of water use in context of climate change- Climate change and efficient management of agriculture and fisheries- Sustainable energy.	12

V	Local and Global Action Economic incentives for “climate smart” Individual action- The role of firms in climate change adaptation and mitigation- National and International policies for “climate smart” innovation and technology diffusion.	12
Textbooks		
1.	Perman, R., Ma. Y., Common, M., Maddison, D., Mcgilvray, J., (2011) Natural Resource and Environmental Economics, Pearson Education Limited, 2011 (4th Edition).	
2.	Intergovernmental Panel on Climate Change – Fifth Assessment Report, 2011 Stern, N., The economics of climate change – The Stern Review, Cambridge University Press, 2006.	
Reference Books		
1.	F. Ackerman, E. Stanton (2013) Climate Economics: State of the Art. Routledge (2013)	
2.	W. Nordhaus (2008) A Question of Balance. Yale University Press (2008)	
3.	Walkenbach, J. (2015). <i>Excel Bible</i> . Wiley.	
4.	D. Acemoglu, P. Aghion, Leonardo Bursztyn, D Hemous. (2012). “The environment and directed technical change,” American Economic Review, 102(1): 131-166	
Web Sources		
1.	https://unfccc.int/?utm_source=chatgpt.com	
2.	https://www.unep.org/topics/finance-and-economic-transformations	
3.	https://climateknowledgeportal.worldbank.org/?utm_source=chatgpt.com	

Semester - IV

26PECC41 INDIAN ECONOMY: ISSUES & POLICIES

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC41	Indian Economy Issues & Policies	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the structural features and growth trajectory of the Indian economy						K2, K4
CO2	Analyze major economic crises and policy responses in post-independence India						K4, K5
CO3	Analyse the New Economic Policy and reform process						K3, K4
CO4	Evaluate the India’s development path with other emerging economies						K5, K6
CO5	Evaluate sectoral performance and decentralization in Tamil Nadu						K4, K5
CO6	Compose the contemporary issues in Indian economic development						K5, K6

Module	Contents	Hours
I	Introduction to Indian Economy Major features of Indian Economy at Independence - Growth and Structural Change Since 1951 – The Recovery of India: Economic Growth in the Nehru Era – Growth and Investment - Population Change and Economic Development – India's Demographic Transition – India's Labour Market since 2000.	18
II	Economic crises in Post independent era and reforms Dilemma of development: Agriculture Vs Industry - Food Crisis: Food crisis during sixties - Green revolutions and government intervention in food grain market with special reference to agricultural price, PDS and priority sector lending, Poverty alleviation: Public intervention for poverty alleviation, Economic crises during Eighties: external debt - crisis, fiscal imbalance, balances of payment problems and inflation - New Economic Policy and Continual reform initiatives.	18
III	Economic Reforms Background of economic reforms – Agricultural Policy – Industrial Policy Reforms – Trade Policy Reforms – Fiscal Policy reforms – Financial Sector Reforms – Foreign Investment Policy Reforms – Tax Reforms – Pension Reforms – Public Sector Reforms – LPG. NITI Aayog.	18

IV	Comparative Picture of Indian Economy China and India: Idiosyncratic Paths to High Growth – Indian Economy Today: Overview and Comparative Perspective – Population - Demographic trends and issues.	18
V	Tamil Nadu Economy Performance of agriculture – Industrial and Social Sector (Health and Education) in Tamil Nadu – Migration of casual workers to Tamil Nadu – Decentralization – Achievements of decentralization – Poverty and unemployment in Tamil Nadu – Tamil Nadu Budgets: Last two.	18
Textbooks		
1.	Dutt and K.P.M. Sundaram (2019) Indian Economy, 73rd edition Sultan Chand & Sons, New Delhi.	
2.	Dhingra, I. C., (2019) March of the Indian Economy: 8th Edition. Heed Publication PVT. Ltd.,	
3.	Kapila, Uma, Indian Economy: Economic Development and Policy, Academic Foundation, New Delhi.	
4.	Datt, Gaurav & Mahajan, Ashwani (2020) Indian Economy, 73rd Revised Edition, S. Chand & Company.	
Reference Books		
1	Drèze, J., & Sen, A. (2013). <i>An uncertain glory: India and its contradictions</i> . Princeton University Press.	
2	Kindleberger, C. P. (1982). <i>The world economic slowdown since the 1970s</i> . IIES.	
3	Meier, G.M. (2025) Leading Issues in Economic Development, 6e, Oxford University Press, New Delhi.	
4	Sen Raj Kumar and Chatterjee, Biswajit, (2001) Indian Economy: Agenda for the 21st century, Deep and Deep Publications, New Delhi.	
Web Sources		
1.	https://www.indiabudget.gov.in	
2.	https://www.investindia.gov.in/team-india-blogs/service-sector-india-paradigm-shift	
3	https://www.ibef.org/industry/manufacturing-sector-india	

26 PECC42 LABOUR ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC42	Labour Economics	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Analyze and apply the consumer behavior through cardinal and ordinal approaches.						K3, K3
CO2	Analyze and evaluate economic behaviour under uncertainty and asymmetric information.						K3, K4
CO3	Analyze and measure the labour productivity, unemployment and migration.						K3, K4, K5
CO4	Analyze and discuss social security measures in India and Tamilnadu.						K5, K6
CO5	Analyze and determine the importance of trade union, collective bargaining and current status of child labour in India.						K3, K4, K5
CO6	Analyze and evaluate the current status of wages and wage boards of India.						K4, K5, K6

Module	Contents	Hours
I	Labour, Labour Market and Labour Efficiency Labour: Concept, Nature and Characteristics, Characteristics of Indian Labour, Contract Labour, Casual Labour, Demand for and Supply of Labour in India, Differences between Labour Market and Commodity Market. Globalization and Labour Market, Participation of women in major industries, Employment in organized and un-organized Industries.	18
II	Theoretical Issues in Labour Economics Changing Dynamics of Labour Economics, Labour supply: Measuring the labour force, Worker's preferences, Time and budget constraints, Hours of work decision; Labour demand: Production function, Long run demand for labour; Labour market equilibrium: Equilibrium in a single competitive labour market	18
III	Labour Productivity, Unemployment and Migration Labour productivity, measures to improve productivity, Concept and measurement, Wages, Prices and Employment. Unemployment: Measurement, Frictional, Structural and Demand-Deficient unemployment, reducing unemployment, public policies. Labour Migration: Types, Migration as an investment in human capital, Determinants of migration, causes and Consequences of migration, push and pull effect of migration, rural and urban migration.	18

IV	State and Labour Concept of Social Security and its evolution, Social Security Measures in India: Workmen Compensation Act, 1923, Maternity Benefit Act, Employees State Insurance Scheme 1948, Employees Provident Fund Act 1952, Employees Family Pension Scheme 1971, Social assistance and social insurance; Review and appraisal of state policies with respect to social security and labour welfare in India; Special Problems of labour, Child labour, Discrimination and gender bias in treatment of labour,	18
V	Wage Discrimination Classical, Neo Classical and bargaining theories of wage determination; Minimum wage, Fair wage in theory and practice; Discrimination in Labor markets, Wage determination in Rural, urban, organized and unorganized sectors. Wages and Wage boards in India; Bonus System and Profit Sharing.	18
Textbooks		
1.	Borjas, George J. (2023), <i>Labor Economics</i> (9th ed.), McGraw-Hill Education, New York.	
2.	Ehrenberg, Ronald G., Smith, Robert S. and Hallock, Kevin (2021), <i>Modern Labor Economics: Theory and Public Policy</i> (14th ed.), Routledge/Pearson, New York.	
Reference Books		
1.	Bhagoliwal, T.N. (2000), <i>Economics of Labour and Industrial Relations</i> (Revised ed.), Sahitya Bhavan Publications, Agra.	
2.	Chakraborty, Suman Kalyan (2018), <i>Labour Economics</i> , Himalaya Publishing House, Mumbai.	
3.	Padhi, P.K. (2019), <i>Labour Economics and Industrial Relations</i> (3rd ed.), PHI Learning Pvt. Ltd., New Delhi.	
Web Sources		
1.	https://www.ilo.org	
2.	https://labour.gov.in	
3.	https://mospi.gov.in	

26PECC43 BEHAVIOURAL ECONOMICS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC43	Behavioural Economics	Core	4	6	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Demonstrate understanding of behavioural decision making						K2
CO2	Analyse bounded rationality and cognitive						K3
CO3	Apply Prospect theory in risky choice situations						K4
CO4	Evaluate intertemporal consumption behavioural						K5
CO5	Examine behavioural game theory outcomes						K5
CO6	Assess behavioural policy interventions						K5, K6

Module	Contents	Hours
I	Introduction to Behavioural Economics Behavioural Economics: meaning, Nature and scope of Behavioural Economics - Evolution of Behavioural Economics - Bounded Rationality and Satisficing - Contributions of Herbert Simon, Daniel Kahneman, and Amos Tversky – neoclassical economics versus behavioural economics.	18
II	Preferences, Choices and Decision Making Values, Preferences and Choices – Expected Utility Theory: Axioms, Assumptions and Definitions - The Neuro-Scientific Basis of Utility - Decision Making Under Risk and Uncertainty: Prospect Theory - Reference Points - Risk Concept and Understanding – Loss Aversion – Shape of Utility Function – Decision Weighting – Probabilistic Judgment.	18
III	Behavioural Intertemporal Choice Time Preferences – Discounting Models – Hyperbolic Discounting – present Bias – Self-Control Problems – Commitment Mechanisms – Behavioural Life Cycle Hypothesis.	18
IV	Experimental Economics and Market Outcomes Altruism – Reciprocity – Fairness Preferences – Inequity Aversion – Ultimatum Game – Trust Game – Public Goods Game - Mental Accounting – Status Quo Bias – Overconfidence Bias - Herd Behaviour – Market Bubbles – Behavioural Finance.	18
V	Behavioural Welfare Economics and Public Policy	18

	Behavioural Welfare Economics – Libertarian Paternalism – Nudge Theory – Choice Architecture – Applications: Public Health, Education, Savings Behaviour and Tax Compliance.	
Textbooks		
1.	Wilkinson, N., & Klaes, M. (2017). <i>An introduction to behavioral economics</i> . Bloomsbury Publishing.	
2.	Cartwright, E. (2024). <i>Behavioral economics</i> . Routledge.	
3.	Angner, E. (2020). <i>A course in behavioral economics</i> . Bloomsbury Publishing.	
Reference Books		
1.	Kahneman, D. (2011). <i>Thinking, fast and slow</i> . macmillan.	
2.	Thaler, R. H., & Sunstein, C. R. (2008). <i>Improving decisions about health, wealth and happiness</i> (Vol. 304). New Haven: Yale University Press.	
3.	Ariely, D. (2008). Predictably irrational. <i>New York</i> , 67-88.	
4.	Thaler, R. H., & Ganser, L. J. (2015). <i>Misbehaving: The making of behavioral economics</i> .	
Web Sources		
1.	https://MIT Behavioural Economics Resources	
2.	https://www.nber.org	
3.	https://www.bi.team	

26PECC44 PROJECT VIVA-VOCE

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECC44	Project Viva – Voce	Core	4	4	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Identifying the research gap from the bottom level of society						K2
CO2	Discuss the Social and Economic issues at the local level in the field						K3
CO3	Examine the different Economic hypotheses that they have learnt in the classroom						K4
CO4	Describe the fact they learnt from the field in the form of Economic theories						K5
CO5	Analyse the complex social relations						K5
CO6	Analyse data and Write critical report						K5, K6

General Guidelines for Project work

Project work is an integral part of academic curriculum of the Department. It is an initiative to bridge the gap between knowledge and application through a series of interventions that will enable students to gain insights and exposure. The project work serves the twin purposes of providing critical economic and business insights to students and providing industry with graduates of a high calibre who are ready to get ahead in the world from day one.

Objectives:

- To provide an opportunity for students to apply theoretical concepts in real life situations;
- To enable students to manage resources, work under deadlines, identify and carry out specific goal oriented tasks

Tentative Framework:

1. Selection of a Topic
2. Chapter -1: Conceptual Framework
3. Chapter – 2: Review of Literature and Methodology
 - Research Gap
 - Significance of the Study
 - Formulation of Research Questions /Issues
 - Research objectives

- Data source (Primary/Secondary)
 - Coverage (Universe/ Sample & period of study)
 - Tools of analysis (Analytical Framework)
 - Relevance of the study
 - Limitations of the study
 - Chapter outlines
4. Chapter -3: Secondary data based
 5. Chapter -4: Data analysis and Interpretation
 6. Chapter -5: Conclusion
 7. Bibliography
 8. Appendices

Structure of the Report

- A. Title Page/ Cover Page
 - a. Title page
 - b. Title of the project
 - c. Name of the candidate/candidate code
 - d. Degree for which project is submitted.
 - e. Name of the college
 - f. Month and year the project is presented
- B. Declaration of the student
- C. Certificate of the supervising teacher
- D. Acknowledgments
- E. Table of contents
 - a. List of Tables
 - b. List of Figures
 - c. Glossary
 - d. List of abbreviations
- F. Chapter Outlines (Chapter Titles and Page Numbers)
- G. Abstract/ Executive Summary (One page)
- H. The Main Text
 - a. Introductory Chapter: Items 3 to 15 mentioned above
 - b. Other Chapters - Analysis, Results Interpretation
 - c. Conclusion Chapter: Conclusions, Recommendations & Summary
- I. End Notes (after each Chapter)
- J. Bibliography (at the end of the thesis)
- K. Appendices
 - a. Questionnaire
 - b. Interview Schedule
 - c. Observation Schedule (optional)
 - d. Coding Frame (optional)

e. Letters sent to sample members (optional) 68

f. Any Other

Length of the Project

1. Report length 40 to 60 pages excluding App2.
2. Alignment: Justify
3. Font: Times New Roman
4. Font size: 12
5. Line spacing: 1.5

26PECE41 ECONOMICS OF SOCIAL ISSUES

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE41	Economics of Social Issues	Elective – VII (I)	3	4	30	70	100
Course Outcomes	Description On the Completion of the Course Learners will be able to						Knowledge Level
CO1	Define social economics and illustrate the role of the government in creating equality in human societies.						K1, K2
CO2	Explain and elaborate the concept of welfare economics with specific reference to healthcare.						K2, K6
CO3	Illustrate and discuss the importance of education in creating human capital; private and social demand for education.						K2, K6
CO4	Recall, classify and compare the various sources of social discrimination, causes and consequences of the same.						K1, K2
CO5	Examine, estimate and illustrate the several components of human development index and the importance of these indices on development of the social sector.						K4, K6
CO6	Judge, assess and derive implication of social related acts and programme						K5, K6

Module	Contents	Hours
I	Introduction – Social Economics Introduction of Social Economics: Definition – Equality in Human Societies – Role of government – Social security – Subsidies – Social banking – Refugees, Slavery and Beggary. - Principles of Social Doctrines: Marx, Pope and Gandhi.	12
II	Economics of Health Concept of Welfare Economics – Health dimensions – Determinants of Health - Demand and Supply of Health care – Financing of healthcare - Concept of human life value – Inequalities in health – Healthcare constraints.	12
III	Economics of Education Education as an instrument of economic growth – Concept of human capital – components of human capital – Private and Social demand for education – Educational planning and economic growth – Manpower requirements approach – Human resource mobilization and utilization.	12
IV	Social Discrimination Sources of Social Discrimination – Class, Caste, Religion, Race and language – Monopoly power - Consumerism – Provision of information – Economic crimes and their prevention – Violation of Human Rights – Terrorism: Causes and consequences – Need to control terrorism.	12

V	Human Development Index Indicators – Life expectancy, Per Capita income and Education - Index – HDI Reports, UNDP - Dimensions - Poverty – Inequality – Gender.	12
Textbooks		
1.	Seeta Prabhu, K. (2012) Economic Reform and Social Sector Development, Sage Publications, New Delhi.	
2.	Dreze, Jean and Amartya Sen (1999) Hunger and Public Action, Clarendon Press, London.	
Reference Books		
1.	Baumol, W J, & Oates, W E (2000) Theory of Economic Policy, Cambridge University Press.	
2.	Culyer, A.J., (1999) The Economics of Social Policy, Martin Robertson and Co. Ltd., London.	
3.	Douglass C. North and Roger Leroy Miller (2001) The Economics of Public Issues, Harper & Row Press, New York.	
Web Sources		
1.	https://www.worldbank.org/ext/en/topic/social-development	
2.	https://www.ilo.org/research-and-publications	
3.	https://www.unep.org/topics/finance-and-economic-transformations	

26PECE41 ECONOMICS IN EVERYDAY LIFE

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECE41	Economics of Social Issues	Elective – VII (2)	3	4	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Know what is price and to explain and identify its mechanism in economies function						K1, K2, K3
CO2	Define, illustrate and evaluate the value of economics in social customs of the society						K1, K2, K5
CO3	Find and examine the evils happening in the economy and to identify and measures to overcome those evils						K1, K3, K4, K5
CO4	Illustrate, analyse the importance of various dimensions of economics in the society						K2, K4, K5
CO5	Analyse, measure and to discuss the role of economics in the effective functioning of the country						K4, K5, K6
CO6	Evaluate every day activities with economic theories						K5, K6

Module	Contents	Hours
I	Thinking about Prices Price determination: The concept of willingness to Pay - Inflation: Meaning, measurement and inflation rate across the Indian states – price indices: consumer and wholesale price index - Application (inflation index).	15
II	Economics of Social Customs Economics of rising age at marriage and declining family size – Economics of Divorce: globalization and Indian family system – Economics of gift: gift in kind Vs gift in cash- Application – Gender economic inequality.	15
III	Economics of Social Evils Discrimination: Meaning, rational, causes and economic consequences. Economics of the leisure – Trade between trade-off between work and leisure - Addiction: Meaning, rational, causes, legalizing drugs and economic consequences – Corruption: An Economists Perspective and application.	15
IV	Economics of Arts and Sports Performing arts: Meaning and its supply and demand at the local level - Globalization and commercialization of Indian music - Economics of Sports: Role of economic competition in sporting activity.	15

V	Economics of Institutions Institutions: concepts and meaning from economic perspectives – types of social institutions - gender and discrimination - caste and affirmative action - religion and economics	15
Textbooks		
1.	Robert J. Stone braker (2005), The Joy of Economics: Making Sense of Life, Winthrop University	
2.	Tim Har ford (2000), The Logic of Life: Discovering the New Economics of Everything, (London: Little).	
Reference Books		
1.	Penson, T. H (2011), The Economics of Everyday Life: A First Book of Economic Study, Nabu Press Cambridge University Press	
2.	David D. Friedman (1997), Hidden Order: The Economics of Everyday Life, Harper Business	
3.	David George Surdam (2015), Century of the Leisured Masses: Entertainment and the Transformation of Twentieth-Century America, Oxford University Press	
Web Sources		
1.	https://www.economicshelp.org/blog/5628/economics/applying-economics-in-everyday-life/	
2.	https://www.sociologygroup.com/economics-in-everyday-life/	
3.	http://acdc2007.free.fr/woodcock2020.pdf	

26PECS41 PROJECT APPRAISAL

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECS41	Project Appraisal	SEC - 3	3	4	30	70	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the concepts, objectives, types and stages of project appraisal.						K1, K2
CO2	Identify and analyse the major components of project formulation, including market, technical, managerial, environmental and financial feasibility.						K1, K2
CO3	Apply financial appraisal techniques such as Payback Period, ARR, NPV, IRR and Profitability Index to evaluate investment proposals.						K2, K3, K4
CO4	Analyse the economic, social and environmental costs and benefits of development projects using Cost-Benefit Analysis and related approaches.						K2, K4
CO5	Evaluate projects under risk and uncertainty using sensitivity analysis, scenario analysis, and break-even analysis and decision-tree techniques.						K4, K6
CO6	Develop and assess a basic project proposal by integrating financial, economic, social, and environmental and sustainability considerations.						K5

Module	Contents	Hours
I	Introduction to Project Appraisal Meaning and definition of a project - Meaning, nature and importance of project appraisal - Objectives of project appraisal - Types of projects: Public and private projects, Industrial, agricultural and infrastructure projects and New and expansion projects - Project cycle: identification, formulation, appraisal, implementation and evaluation.	12
II	Project Formulation and Feasibility Analysis Project formulation: meaning and major components - Market and demand analysis - Technical analysis - Location and site selection - Plant capacity and technology selection - Input and raw material requirements - Human resource requirements - Infrastructure requirements - Cost estimation: Fixed cost, Variable cost, Working capital and Pre-operative expenses.	12

III	Financial Appraisal of Projects Meaning and objectives of financial appraisal - Investment decision and cash-flow analysis - Initial investment and operating cash flows - Time value of money - Discounting and compounding - Financial appraisal techniques with numerical problems: Payback Period - Accounting Rate of Return (ARR) - Net Present Value (NPV) - Internal Rate of Return (IRR) - Profitability Index (PI) - Cost of capital and discount rate.	12
IV	Economic, Social and Risk Appraisal Meaning and significance of economic appraisal - Financial appraisal versus economic appraisal - Economic costs and benefits - Shadow pricing - Economic rate of return - Cost-Benefit Analysis (CBA) - Cost-Effectiveness Analysis (CEA) - Social Cost-Benefit Analysis - Employment and income effects - Environmental costs and benefits - Risk and uncertainty in project appraisal.	12
V	Project Evaluation, Implementation and Practical Applications Project implementation: meaning and stages - Project scheduling and monitoring - Project control and performance evaluation - Project implementation problems - Time and cost overruns - Post-completion project evaluation - Impact assessment of projects - Social and environmental impact assessment - Sustainable development and project appraisal.	12
Textbooks		
1.	Prasanna Chandra (2017) Project Planning: Analysis, Selection, Implementation and Review –, 7/e, TMH, 2011.	
2.	Narendra Singh (2016) Project Management and Control –, HPH.	
Reference Books		
1.	Nicholas, John M., (2000) Project Management for Business and Technology: Principles and Practice –2/e, Pearson.	
2.	Choudhury (2017) Project Management: The Managerial Process – Gray& Larson, 4/e, TMH, 2011.Project Management –, 1/e, TMH. 7	
3.	Bhavesh M. Patel (2012) Project Management –, 2/e, Vikas Publication.	
Web Sources		
1.	https://ajnifm.ac.in/?utm_source=chatgpt.com	
2.	https://www.pm4dev.com/?utm_source=chatgpt.com	

VALUE ADDED COURSES

26PECVA1 Use of Statistical Tools with SPSS

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECVA1	Use Of Statistical Tools With SPSS	VAC	3	30	-	100	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Understand the basic concepts and applications of SPSS in economics.						K2, K4
CO2	Perform data entry, coding and management using SPSS software.						K4
CO3	Apply descriptive and inferential statistical techniques using SPSS.						K4
CO4	Analyze economic and socio-economic data through regression and hypothesis testing.						K5
CO5	Interpret SPSS outputs and prepare analytical reports.						K4, K5
CO6	Develop practical skills for research, project work and employment in data-related fields.						K6

Module	Contents
I	Introduction to SPSS Introduction to Statistical Software – Features and Applications of SPSS – SPSS Interface and Windows – Variable View and Data View – Data Entry and Coding – Importing Data from Excel and CSV Files – Data Cleaning and Editing – Saving and Exporting Files.
II	Descriptive Statistics and Data Presentation Frequency Distribution – Measures of Central Tendency – Measures of Dispersion – Cross Tabulation – Charts and Graphs – Histogram, Bar Diagram, Pie Diagram and Line Graph – Data Visualization and Interpretation using SPSS.
III	Correlation and Regression Analysis Correlation Analysis – Scatter Diagram – Pearson and Spearman Correlation – Simple Linear Regression – Multiple Regression – Interpretation of Output – Economic Applications of Regression Analysis – Forecasting Techniques.
IV	Hypothesis Testing and Inferential Statistics Hypothesis Testing – t-Test – Paired Sample Test – Chi-Square Test – Analysis of Variance (ANOVA) – Non-Parametric Tests – Interpretation of Statistical Significance – Applications in Economic Research.
V	Advanced Applications and Report Writing Questionnaire Data Analysis – Socio-Economic Survey Analysis – Reliability Testing – Factor Analysis – Time Series Data Analysis – Preparation of Tables and Reports – Interpretation and Presentation of Findings – Research Project using SPSS.

Textbooks	
1.	Herschel Knapp (2017) Introductory Statistics Using SPSS, 2 nd Edition, SAGE Publications.
2.	James O. A and James B. C (2015) Using IBM SPSS Statistics: An Interactive Hands-On Approach, 2 nd Edition, Sage Publication.
3.	Sabine L and Brian S. (2004) A Handbook of Statistical Analyses using SPSS, A CRC Press Company Boca Raton London New York Washington, D.C.

26PECVA2 Database on Indian Economy

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
26PECVA2	Database on Indian Economy	VAC	3	30	-	100	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Understand the structure and importance of Indian economic databases.						K2, K4
CO2	Identify major data sources relating to different sectors of the Indian economy.						K4
CO3	Analyze macroeconomic, agricultural, industrial and social sector data.						K4
CO4	Apply statistical databases for economic research and policy analysis.						K5
CO5	Interpret economic indicators for academic and competitive examination purposes.						K4, K5
CO6	Develop practical skills in data collection, classification and presentation						K6

Module	Contents
I	National Income Indicators Gross Domestic Product – Current and constant price – components of GDP - Gross State Domestic product – capital formation and other macroeconomic indicators – Balance of Payments.
II	Agriculture Sector National and state level Production, area under cultivation and yield for food and non-food grains – minimum support price for food and non-food grains – Indian Agriculture Census and Agriculture Input Survey.
III	Manufacturing and Trade Annual Survey of Industry data –Centre for Monitoring Indian Economy [CMIE] – Export and Import of Goods and Services - UNCTAD and WITS.
IV	Health and Education Sector Different rounds of National Family Health Survey –Infant Mortality Rate and Maternal Mortality Rate - other health related indicators – Data from DISE.
V	Employment, Labour and Sustainable Development Census of India: Main and Marginal cultivators – Main and Marginal agricultural labours – The Mahatma Gandhi National Rural Employment Guarantee Act – Introduction of NSS reports.

Web Sources

<https://www.rbi.org.in/>

<https://www.worldbank.org/en/home>

<https://www.weforum.org/>

<https://educationforallinindia.com/>

<https://www.mospi.gov.in/>

https://nrega.nic.in/MGNREGA_new/Nrega_home.aspx

EXTRA CREDIT COURSE

26PECEC1 Health Economics

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
23PECEC1	Health Economics	ECC	3	-	-	100	100
Course Outcomes	Description						Knowledge Level
	On the Completion of the Course Learners will be able to						
CO1	Explain the concepts and scope of Health Economics.						K2, K4
CO2	Analyze demand and supply of healthcare services.						K4
CO3	Evaluate healthcare financing mechanisms and insurance systems.						K4
CO4	Assess health inequalities and healthcare delivery systems.						K5
CO5	Examine economic evaluation techniques in healthcare.						K4, K5
CO6	Analyse health policies and challenges in India and developing countries						K6

Module	Contents
I	Introduction to Health Economics Meaning, Nature, Scope and importance of Health Economics - Health as Human Capital - Demand for Health and Healthcare - Determinants of Health demand - health Production Function - Health as Consumption and Investment Good.
II	Demand and Supply of Healthcare Demand for Healthcare Services: Individual Demand for Healthcare, Elasticity of Demand for Healthcare and Factors Affecting Healthcare Utilization - Supply of Healthcare and Health Workforce: Healthcare Providers, Hospitals and Healthcare Institutions, Health Workforce Economics and Physician Behaviour - Market Failure in Healthcare - Asymmetric Information - Physician-Induced Demand.
III	Healthcare Financing and Insurance Sources of Healthcare Financing: Public Financing, Private Financing and Out-of-Pocket Expenditure – Health Insurance: Principles and types of Insurance: Social Health Insurance, Private Health Insurance and Community-Based Health Insurance.
IV	Economic Evaluation in Healthcare Economic Evaluation: Need for Economic Evaluation - Resource Allocation in Healthcare - Opportunity Cost in Healthcare - Evaluation Techniques: Cost-Minimization Analysis, Cost-Benefit Analysis, Cost-Effectiveness Analysis and Cost-Utility Analysis.
V	Health Policy, Equity and Emerging Issues Health Systems: Types and Characteristics, National Health Policy of India, Healthcare Reforms - Equity in Health: Health Inequalities - Socioeconomic Determinants of Health, Gender and Health and Rural-Urban Health Disparities

Test Books	
1	Folland, S., Goodman, A.C. and Stano, M. (2021), <i>The Economics of Health and Health Care</i> , 9th edn, New York: Routledge.
2	Henderson, J.W. (2022), <i>Health Economics and Policy</i> , 7th edn, Boston: Cengage Learning.
3.	Bhattacharya, J., Hyde, T. and Tu, P. (2014), <i>Health Economics</i> , London: Palgrave Macmillan.
Reference Books	
1.	Drummond, M.F., Sculpher, M.J., Claxton, K., Stoddart, G.L. and Torrance, G.W. (2015), <i>Methods for the Economic Evaluation of Health Care Programmes</i> , 4th edn, Oxford: Oxford University Press.
2.	Mooney, G. (2003), <i>Economics, Medicine and Health Care</i> , 3rd edn, London: Routledge.
3.	Getzen, T.E. (2022), <i>Health Economics and Financing</i> , 7th edn, Hoboken: Wiley.
Web Sources	
1.	https://www.worldbank.org/ext/en/topic/health?utm_source=chatgpt.com
2.	https://www.who.int/?utm_source=chatgpt.com

26PECEC2 Political Economy

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
23PECEC2	Political Economy	ECC	3		-	100	100
Course Outcomes	Description						Knowledge Level
CO1	Explain major approaches in Political Economy.						K2, K4
CO2	Analyze interactions between politics and economics.						K4
CO3	Evaluate theories of state, power and development.						K4
CO4	Examine political institutions and economic outcomes.						K5
CO5	Assess globalization and political-economic transformations.						K4, K5
CO6	Analyze contemporary political-economic issues in India and the world.						K6

Module	Contents
I	Foundations of Political Economy Political Economy: Meaning, Nature and Scope of Political Economy - Classical Political Economy: Adam Smith, David Ricardo and Karl Marx - Political Economy and Modern Economics: State, Market and Society
II	Theories of State and Economic Systems Theories of State: Liberal, Marxist and Institutional Perspectives - State and Economic Development – Economic Systems: Capitalism, Socialism and Mixed Economy - Public Choice Theory - Political Institutions and Governance
III	Political Economy of Development Growth and Development - Inequality and Poverty - Political Determinants of Development - Rent Seeking and Corruption - Developmental State.
IV	Global Political Economy Globalization and Economic Integration - International Institutions - Trade, Finance and Power - Political Economy of Global Governance - Emerging Economies
V	Contemporary Issues in Political Economy Political Economy of Reforms in India - Federalism and Fiscal Governance - Environment and Political Economy - Digital Economy and Governance - Sustainable Development
Test Books	
1	Gilpin, R. (2001), <i>Global Political Economy: Understanding the International Economic Order</i> , Princeton: Princeton University Press.

2	Caporaso, J. A. and Levine, D. P. (1992), <i>Theories of Political Economy</i> , Cambridge: Cambridge University Press.
3.	O'Brien, R. and Williams, M. (2020), <i>Global Political Economy: Evolution and Dynamics</i> , 6th edn, London: Red Globe Press.
Reference Books	
1.	Acemoglu, D. and Robinson, J. A. (2012), <i>Why Nations Fail: The Origins of Power, Prosperity and Poverty</i> , London: Profile Books.
2.	Stiglitz, J. E. (2012), <i>The Price of Inequality</i> , New York: W.W. Norton.
3.	Bardhan, P. (1984), <i>The Political Economy of Development in India</i> , Oxford: Basil Blackwell.
Web Sources	
1.	https://www.open.edu/openlearn/education-development/university-ready/free-online-politics-economics-courses
2.	https://www.coursera.org/learn/political-economy

26PECEC3 Indian Economy for Civil Services

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
23PECEC3	Indian Economy for Civil Services	ECC	3		-	100	100
Course Outcomes	Description						Knowledge Level
CO1	Understand the structure and functioning of the Indian economy.						K2, K4
CO2	Analyze major economic issues related to agriculture, industry and services.						K4
CO3	Evaluate fiscal, monetary and trade policies of India.						K4
CO4	Interpret current economic developments for competitive examinations.						K5
CO5	Apply economic concepts in Civil Services and TNPSC preparation.						K4, K5
CO6	Develop analytical and problem-solving skills related to Indian economic policies.						K6

Module	Contents
I	Structure of Indian Economy Features of Indian Economy – National Income: Concepts and Measurement – Sectoral Contribution to GDP – Demographic Trends in India – Human Development Index – Poverty, Unemployment and Inequality in India – NITI Aayog and Economic Planning.
II	Agriculture and Rural Economy Role of Agriculture in Indian Economy – Agricultural Productivity and Green Revolution – Agricultural Marketing – MSP and Food Security – Rural Development Programmes – MGNREGA – Rural Credit and NABARD – Farmer Producer Organizations (FPOs).
III	Industrial and Service Sectors Industrial Policy in India – MSMEs and Start-up India – Public Sector and Privatization – Make in India – Infrastructure Development – Growth of Service Sector – Tourism and Digital Economy.
IV	Indian Public Finance and Banking Fiscal Policy – Union Budget – Tax Structure in India – GST – Public Expenditure and Public Debt – Monetary Policy – Reserve Bank of India – Commercial Banking System – Financial Inclusion and Digital Payments.
V	External Sector and Contemporary Economic Issues Foreign Trade Policy – Balance of Payments – Foreign Direct Investment – WTO and India – Globalization and Indian Economy – Inflation – Climate Change and Sustainable Development – Current Economic Issues in India.

Test Books	
1	Gilpin, R. (2001), <i>Global Political Economy: Understanding the International Economic Order</i> , Princeton: Princeton University Press.
2	Caporaso, J. A. and Levine, D. P. (1992), <i>Theories of Political Economy</i> , Cambridge: Cambridge University Press.
3.	O'Brien, R. and Williams, M. (2020), <i>Global Political Economy: Evolution and Dynamics</i> , 6th edn, London: Red Globe Press.
Reference Books	
1.	Acemoglu, D. and Robinson, J. A. (2012), <i>Why Nations Fail: The Origins of Power, Prosperity and Poverty</i> , London: Profile Books.
2.	Stiglitz, J. E. (2012), <i>The Price of Inequality</i> , New York: W.W. Norton.
3.	Bardhan, P. (1984), <i>The Political Economy of Development in India</i> , Oxford: Basil Blackwell.
Web Sources	
1.	https://www.indiabudget.gov.in/economicsurvey/?utm_source=chatgpt.com
2.	https://www.niti.gov.in/?utm_source=chatgpt.com

26PECEC4 Village Survey and Participatory Rural Appraisal

Course Code	Course Name	Course Category	Credits	Hours	Internal	External	Total Marks
23PECEC4	Village Survey and Participatory Rural Appraisal	ECC	3		-	100	100
Course Outcomes	Description						Knowledge Level
CO1	Understand the structure and socio-economic characteristics of villages.						K2, K4
CO2	Conduct village-level surveys using scientific methods.						K4
CO3	Apply PRA techniques in rural development studies.						K4
CO4	Analyze rural livelihood and development issues.						K5
CO5	Prepare field reports and interpret rural data effectively.						K4, K5
CO6	Develop practical research skills for rural economic analysis						K6

Module	Contents
I	Introduction to Village Survey Meaning and Importance of Village Surveys – Rural Economy and Village Structure – Objectives of Rural Surveys – Types of Rural Data – Primary and Secondary Data – Census and Sample Surveys – Ethical Issues in Field Research.
II	Methods of Rural Data Collection Questionnaire and Schedule Preparation – Interview Techniques – Observation Method – Focus Group Discussion – Sampling Methods – Household Surveys – Data Recording and Tabulation.
III	Participatory Rural Appraisal (PRA) Meaning and Principles of PRA – Need for Participation in Rural Development – PRA Techniques: Social Mapping, Resource Mapping, Transect Walk, Seasonal Calendar, Wealth Ranking and Venn Diagram – Participatory Learning Methods.
IV	Rural Development and Field Applications Village Institutions and Panchayat Raj – Rural Livelihood Analysis – Gender Issues in Rural Development – Agricultural and Non-Agricultural Occupations – Government Welfare Programmes – Case Studies in Rural Development.
V	Report Writing and Data Analysis Field Report Preparation – Data Classification and Interpretation – Use of Statistical Tools in Rural Surveys – Preparation of Village Profile – Presentation of Findings – Policy Suggestions and Rural Development Planning.

Test Books	
1	Chambers, R. (2013), <i>Rural Development: Putting the Last First</i> , Pearson Education, New Delhi.
2	Mukherjee, N. (2002), <i>Participatory Learning and Action: With 100 Field Methods</i> , Concept Publishing Company, New Delhi.
3.	Singh, K. (2019), <i>Rural Development: Principles, Policies and Management</i> , Sage Publications India Pvt. Ltd., New Delhi.
Reference Books	
1.	Robert, C. and Vijay Kumar, P. (2018), <i>Research Methodology in Rural Development</i> , Rawat Publications, Jaipur.
2.	Singh, K. (2020), <i>Rural Development Theory and Practice</i> , Sage Publications India Pvt. Ltd., New Delhi.
3.	Srinivas, M.N. (2011), <i>The Remembered Village</i> , Oxford University Press, New Delhi.
Web Sources	
1.	https://panchayat.gov.in/
2.	https://www.fao.org/home/en/