

NATIONAL COLLEGE (AUTONOMOUS)

(Nationally Re-Accredited with 'A' Grade by NAAC)

Tiruchirappalli – 620001.



POST GRADUATE PROGRAMME

PG & RESEARCH DEPARTMENT OF ECONOMICS

(For candidates admitted from 2025 onwards)

POST GRADUATE PROGRAMME STRUCTURE

VISION

Empowering students to become leading economists, policymakers, and change-makers who can drive sustainable economic growth, social justice and environmental stewardship.

MISSION

The mission of the department is to address economic and social challenges, promote inclusion, and enhance community well being.

PROGRAMME OBJECTIVES

- ✚ Provide in-depth knowledge of advanced economic theories and concepts.
- ✚ Equip students with analytical skills for both micro and macroeconomic issues.
- ✚ Develop proficiency in statistical and econometric methods for economic analysis.
- ✚ Enhance understanding of public finance, monetary economics, and fiscal policies.
- ✚ Foster skills to analyze and apply economic theories to real-world financial systems.
- ✚ Encourage critical thinking in addressing development challenges in the Indian economy.

PROGRAMME OUTCOMES

- ✚ Develop advanced analytical skills to evaluate economic theories and applications.
- ✚ Enhance the ability to apply statistical and econometric methods for economic analysis.
- ✚ Acquire in-depth knowledge of financial, monetary, and public finance systems.
- ✚ Understand the complexities of economic growth, development, and policy-making in India.
- ✚ Foster critical thinking in evaluating market structures, industrial economics, and international trade.
- ✚ Cultivate skills for research, data analysis, and effective decision-making in economic contexts.

PROGRAMME SPECIFIC OUTCOMES

- ✚ Apply advanced micro and macroeconomic theories to analyze economic issues.
- ✚ Utilize statistical methods to analyze economic data and draw inferences.
- ✚ Assess the impact of public finance policies on economic growth and development.
- ✚ Analyze the role of monetary policies in stabilizing the economy.
- ✚ Evaluate financial markets and institutions for effective decision-making.
- ✚ Conduct research on economic development, focusing on Indian economic trends.

INSTRUCTION HOURS AND CREDIT FOR PG PROGRAMMES

INSTRUCTIONS FOR CURRICULUM REVISION EFFECTIVE FROM THE ACADEMIC YEAR 2025-2026

POST GRADUATE - PROGRAMME STRUCTURE - 2025 ONWARDS

SL.NO	SEM	CODE	COURSE	COURSE TITLE	Exam Hrs.	Hrs.	Credits	Internal Exam	External Exam	Total Marks
1	I	P25EC1	CORE I	Advanced Micro Economic Theory	3	6	5	25	75	100
2		P25EC2	CORE II	Advanced Macro Economic Theory	3	6	5	25	75	100
3		P25EC3	CORE III	Statistical Methods for Economic Analysis	3	6	4	25	75	100
4		P25EC4	CORE IV	Public Finance	3	6	5	25	75	100
5		P25EC5E1	CORE BASED ELECTIVE - I	A - Financial Economics	3	6	4	25	75	100
	P25EC5E2	B - Service Marketing		3	6					
	P25EC5E3	C - Behavioural Economics		3	6					
6	II	P25EC6	CORE V	Monetary Economics	3	6	5	25	75	100
7		P25EC7	CORE VI	Indian Economic Development	3	6	4	25	75	100
8		P25EC8	CORE VII	Mathematical Methods for Economic Analysis	3	6	4	25	75	100
9		P25EC9E1	CORE BASED ELECTIVE - II	A - Labour Economics	3	6	4	25	75	100
		P25EC9E2		B - Health Economics	3	6				
	P25EC9E3	C - Rural Development		3	6					
10	P25EC10E1	CORE BASED ELECTIVE - III	A - Managerial Economics	3	6	4	25	75	100	
	P25EC10E2		B - Human Resource Development	3	6					
	P25EC10E3		C - Management Information System	3	6					
11	III	P25EC11	CORE VIII	Research Methodology	3	6	4	25	75	100
12		P25EC12	CORE IX	Econometrics	3	6	4	25	75	100
13		P25EC13	CORE X	Industrial Economics	3	6	5	25	75	100
14		P25EC14	CORE XI	Agricultural Economics	3	6	5	25	75	100
15		P25EC15E1	CORE BASED ELECTIVE - IV	A - Computer Applications in Economics	3	6	4	25	75	100
	P25EC15E2	B - Urban Economics		3	6					
	P25EC15E3	C - Project Appraisal		3	6					
16	IV	P25EC16	CORE XII	Welfare Economics	3	6	5	25	75	100
17		P25EC17	CORE XIII	Environmental Economics	3	6	5	25	75	100
18		P25EC18	CORE XIV	International Economics	3	6	5	25	75	100
19		P25EC19E1	CORE BASED ELECTIVE - V	A - Entrepreneurial Development	3	6	4	25	75	100
		P25EC19E2		B - Principles of Management	3	6				
	P25EC19E3	C - Marketing Management		3	6					
20	P25ECP20	PROJECT			6	5	75	25	100	
GRAND TOTAL						120	90			2000

NUMBER OF COURSES

Core course	14
Core Based Elective*	05
Project	01
Total	20

Note: *Core Based Electives 5

I Semester – 1 (Options 3 choose any one elective)

II Semester – 2 (Options 3 choose any one elective)

III Semester – 1 (Options 3 choose any one elective)

IV Semester – 1 (Options 3 choose any one elective)

QUESTION PAPER PATTERN*		
Section - A	20X1=20	Choose the best answer
Section - B	5X5 =25	Either - or type
Section - C	3X10=30	3 out of 5

External Examination	75 Marks
Continuous Internal Assessment	25 Marks

COMPONENTS FOR CIA	
CIA – I	05 Marks
CIA – II	06 Marks
Assignment	2 x 2 = 04 Marks
Seminar	05 Marks
Attendance	05 Marks
Total	25 Marks

SEMESTER - I

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC1	CORE I	ADVANCED MICRO ECONOMIC THEORY	LECTURE	6	5

COURSE DESCRIPTION:

This course provides an in-depth analysis of microeconomic theories, covering demand and supply, production functions, factor pricing, market structures, and distribution theories. It equips students with analytical skills to evaluate pricing, competition, and wage determination in different economic conditions.

COURSE OBJECTIVES:

- ✚ To understand the law of demand and supply and their applications in economic theory.
- ✚ To analyze production functions, returns to scale, and the concept of consumer surplus.
- ✚ To study factor pricing under various market structures and its impact on income distribution.
- ✚ To explore different market structures and their influence on price and output determination.
- ✚ To examine modern theories of distribution and the role of wages, trade unions, and collective bargaining..

UNIT - I: DEMAND AND SUPPLY ANALYSIS

(18 HOURS)

Law of demand- Demand schedule – Indifference curve analysis – Revealed Preference Theory- Hicks Revision of demand theory- Modern Utility Theories: Neumann-Morgenstern method, Friedman-Savage Hypothesis — Supply curve.

UNIT - II: PRODUCTION FUNCTION

(18 HOURS)

Meaning – Nature - Homogeneous production function – Law of Variable proportions – Cobb-Douglas Production function – Returns to Scale: Increasing, Constant and Diminishing returns to scale - Iso-quants: Properties – Consumer Surplus.

UNIT - III: FACTOR PRICING AND DISTRIBUTION

(18 HOURS)

Factor Pricing and Product pricing – Concept of Factor Productivity and Factor Cost– Factor pricing under Perfect and Imperfect Competition –Functional and Personal Distribution– Marginal Productivity theory of factor pricing, its critical evaluation - Product Exhaustion theorems.

UNIT - IV: MARKET STRUCTURE

(18 HOURS)

Monopoly – Perfect Competition – Features – Price and output determination under Perfect competition – Monopolistic Competition – Meaning – Features - Equilibrium under Monopolistic competition –Oligopoly – features– Types– Pricing under oligopoly-Kinked demand Curve.

UNIT - V: DISTRIBUTION THEORIES**(18 HOURS)**

Neo-classical approach – Marginal productivity theory; Product exhaustion theorem; Hick’s technical progress- Modern theory of distribution – Factor Pricing in imperfect product and factor markets- Determination of Wages – Labour supply and wage determination – Role of trade unions and collective bargaining.

TEXT BOOKS:

1. Ramesh Chandra Das (2011), Micro Economics, Theory and Practice, Kunal Books Publisher, New Delhi. **(Unit: I, II, III, IV, V. No. 330.2)**
2. Sundaram K.P.M. and Vaish M.C. (2004), Micro Economic Theory (S.Chand, New Delhi. **(Unit: I, II, III, IV, V. No. 330.8)**)

REFERENCE BOOKS:

1. Ahuja H.L (2004), Advanced Economic Theory, Sultan Chand Co., New Delhi.
2. Jhingan .M.L (2004), Micro Economic Theory, Vrinda Publications, Delhi.
3. Koutsiyiannis A.(1978), Modern Micro Economics, Macmillan, London.
4. Salvatore, Dominick (2004), Micro Economic Theory, Tata Mcgraw Hill, New Delhi.
5. Hal R. Varian (2004), Intermediate Micro Economics (East-West Press: New Delhi.

WEB RESOURCE:

1. <https://www.gacbe.ac.in/pdf/ematerial/18MEC11C-U1.pdf>
2. <https://gacbe.ac.in/pdf/ematerial/18BBA34A-U4.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Understand and analyze the fundamental concepts of demand and supply, including the law of demand, indifference curve analysis.	K1
CO2	Evaluate production functions such as the Cobb-Douglas function and understand returns to scale, isoquants, and consumer surplus.	K2
CO3	Examine different market structures such as perfect competition, monopoly, monopolistic competition, and oligopoly, and determine price and output under these structures.	K3
CO4	Analyze factor pricing and distribution theories, including the marginal productivity theory, product exhaustion theorems.	K4
CO5	Compare and critique distribution theories, including neo-classical and modern theories, wage determination, and the role of trade unions in labor markets.	K5
CO6	Apply microeconomic theories to real-world economic scenarios, demonstrating critical thinking and problem-solving skills in market analysis.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6** – Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	0	0	0
CO2	3	9	9	3	3	3
CO3	3	3	9	3	3	3
CO4	3	3	3	9	3	3
CO5	3	3	3	3	9	9
CO6	3	3	3	9	3	3
Weightage	24	24	30	27	21	21
Weighted percentage of course contribution to	16.3%	16.3%	20.4%	18.3%	14.3%	14.3%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3	--	PO4, PO5, PO6
CO2 / K2	PO2, PO3	PO1, PO4, PO5, PO6	--	--
CO3 / K3	PO3	PO1, PO2, PO4, PO5, PO6	--	--
CO4 / K4	PO4	PO1, PO2, PO3, PO5, PO6	--	--
CO5 / K5	PO5, PO6	PO1, PO2, PO3, PO4	--	--
CO6 / K6	PO4	PO1, PO2, PO3, PO5, PO6	--	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **ADVANCED MICRO ECONOMIC THEORY** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HoD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC2	CORE II	ADVANCED MACRO ECONOMIC THEORY	LECTURE	6	5

COURSE DESCRIPTION:

This course provides an in-depth understanding of macroeconomic principles, focusing on national income, employment theories, consumption and investment behavior, IS-LM functions, and macroeconomic policy. It explores classical and Keynesian perspectives, circular flow models, and the role of fiscal and monetary policies in economic stability and growth.

COURSE OBJECTIVES:

- ✚ To introduce the fundamental concepts and methods of measuring national income and its circular flow in different economic sectors.
- ✚ To analyze classical and Keynesian theories of employment, income determination, and the principle of effective demand.
- ✚ To examine consumption and investment functions, including Keynesian and post-Keynesian perspectives.
- ✚ To understand the IS-LM model, equilibrium in product and money markets, and shifts in macroeconomic equilibrium.
- ✚ To explore the scope, objectives, and instruments of monetary and fiscal policies in economic management.

UNIT I: NATIONAL INCOME AND CIRCULAR FLOW (18 HOURS)

Introduction – Definition – Concepts - Methods - Measuring of National Income - Circular Flow of National Income -two sector model without saving – leakages and injections – Two sector model with saving and investment – circular flow of income in three sector economy - circular flow in four sector economy – importance of circular flow.

UNIT II: CLASSICAL AND KEYNESIAN MACROECONOMICS (18 HOURS)

Meaning of Full Employment – Types - Classical Theory of Employment –Say’s law Market: Say’s Law in a Barter Economy – Say’s Law in Money Economy and Implication of Say’s Law. Keynesian Theory of Income and Employment – Principle of effective Demand Determinants of Effect demand -Importance of effective demand.

UNIT - III: CONSUMPTION AND INVESTMENT (18 HOURS)

Technical Attribute of Consumption Function - Stability of Consumption Function – Measures to Increases Consumption – Keynes psychological law of Consumption Function - Post Keynesian Developments - Period Consumption Functions - Relative Income, Permanent Income and Life-Cycle hypotheses. The investment function – Types of Investment - Investment decision – Marginal Efficiency of Capital.

UNIT - IV: IS – LM FUNCTION (18 HOURS)

Product Market Equilibrium – derivation IS of Curve – Shifts in IS Function – elasticity of IS Function – Money Market Equilibrium – Derivation LM Curve – General Equilibrium of Product and Money Market – changes in General Equilibrium – Simultaneous Shift in IS – LM Functions – Weaknesses of IS-LM

UNIT - V: MACRO ECONOMIC POLICY**(18 HOURS)**

Scope –Need - Objectives – Formulation of Macro Economic Policy – Monetary Policy– Objectives - Goals of Monetary Policy – Instruments of Monetary Policy – Monetary policy of India – Fiscal Policy – Meaning – Objectives – Scope – Kinds - Instruments of fiscal policy - Fiscal Policy and Economic Growth.

TEXT BOOKS:

1. Jhingan M.L.(2011) Macroeconomic Theory, Vrinda publications (P) Ltd., New Delhi. (Unit – I, II, III, IV, V. No. 330.3)
2. Ahuja H. L (2016) Macro Economic Theory and Policy, S. Chand Publishing, New Delhi. (Unit – I, II, III. No. 330.3)

REFERENCE BOOK:

1. Ackley, G(1978), Macro Economics: Theory and Policy, Macmillian, New York.
2. Gupta R.D, (1997), Keynesian and Post-Keynesian Economics, Kalyani Publishers, Ludhiana.
3. Hajela, T. N.,(2009), Money and Banking: Theory with Indian Banking, AneBooks Pvt. Ltd., New Delhi.
4. Dornbusch, Rudiger, Stanley Fischer, and Richard Startz (2000). Macroeconomics, Tata McGraw-Hill Publishing Company, New Delhi.

WEB RESOURCE:

1. [https://mis.alagappauniversity.ac.in/siteAdmin/dde-admin/uploads/1/PG_M.A._Economics%20\(English\)_362%2011%20_%20Microeconomics-I%20_%20MA%20_%20Economics.pdf](https://mis.alagappauniversity.ac.in/siteAdmin/dde-admin/uploads/1/PG_M.A._Economics%20(English)_362%2011%20_%20Microeconomics-I%20_%20MA%20_%20Economics.pdf)
2. https://ddceutkal.ac.in/Downloads/UG_SLM/Commerce/GE_1.pdf

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	To Analyze and interpret macroeconomic variables such as stocks, flows, and their applications.	K1
CO2	To know differentiate the various concepts of national income and describe methods of its measurement.	K2
CO3	To aware about the determinants of investment, the distinction between autonomous and induced investment, and the role of MEC and interest rates.	K3
CO4	Students know the concept of the multiplier, its working, types, and importance, including leakages.	K4
CO5	To know the instruments of monetary policy, such as bank rate policy, open market operations, and cash reserve ratio.	K5
CO6	To evaluate the national income, social accounting, and key economic indicators macroeconomic policies for addressing economic challenges and fostering sustainable growth.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6** - Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	9	3	9
CO2	3	9	0	3	9	1
CO3	9	1	9	1	3	9
CO4	9	3	9	9	1	3
CO5	9	9	3	1	9	1
CO6	9	9	9	9	9	9
Weightage	48	34	31	32	34	32
Weighted percentage of course contribution to	22.75%	16.11%	14.69%	15.17%	16.11%	15.17%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO4, PO6	PO2, PO5	PO3	-
CO2 / K2	PO2, PO5	PO1, PO4	PO6	PO3
CO3 / K3	PO1, PO3, PO6	PO3	PO2, PO4	-
CO4 / K4	PO1, PO3, PO5	PO2, PO6	PO5	-
CO5 / K5	PO1, PO2, PO5	PO3	PO4, PO6	-
CO6 / K6	PO1, PO2, PO3, PO4, PO5, PO6	-	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **ADVANCED MACRO ECONOMIC THEORY** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HoD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC3	CORE III	STATISTICAL METHODS FOR ECONOMIC ANALYSIS	LECTURE	6	4

COURSE DESCRIPTION:

This course covers statistical methods in economics, including sampling techniques, measures of central tendency and dispersion, correlation and regression, index numbers, time series analysis, probability, and hypothesis testing. It equips students with essential analytical tools for data interpretation and decision-making.

COURSE OBJECTIVES:

- ✚ To understand the principles and methods of sampling, and evaluate the advantages, limitations, and errors associated with surveys.
- ✚ To analyze measures of central tendency, dispersion, and their applications in summarizing and interpreting data.
- ✚ To study correlation and regression methods, including their types, properties, and practical applications.
- ✚ To explore the construction and uses of index numbers, time series analysis, and trend measurement techniques.
- ✚ To develop proficiency in probability concepts, distributions, and hypothesis testing using statistical methods like Z, t, Chi-square, and F-tests.

UNIT I: MEASURES OF CENTRAL TENDENCY AND DISPERSION (18 HOURS)

Meaning – Objectives – Functions – Characteristics of an average - Mean, Median, Mode, geometric mean and Harmonic Mean – Measures of Dispersion: Quartile Deviation, Mean Deviation and Standard Deviation and coefficient of variation.

UNIT II: CORRELATION AND REGRESSION (18 HOURS)

Concept of Correlation – Types of Correlation – Simple Correlation – Karl Pearson's Coefficient of Correlation – Partial Correlation – Multiple Correlation – Spearman's Rank Correlation Coefficient – Properties and Uses of Correlation. Meaning of Regression – Simple Regression – Properties of Regression Coefficients – Coefficient of Determination.

UNIT III: INDEX NUMBERS & TIME SERIES ANALYSIS (18 HOURS)

Index Numbers: Meaning, uses and limitations of index numbers - Methods of constructing Index Number : Un-weighted Aggregative Method – Weighted Aggregative Methods: Laspeyre's – Paasche's – Fishers Index Number – Time Series: Meaning – Uses – Components – Measurement – Methods of moving average – Semi Average – Methods of Least squares.

UNIT IV: SAMPLING TECHNIQUE**(18 HOURS)**

Census survey – Sample survey – Sampling - Meaning – Principles - Methods of Sampling – Size of Sample – Determination of Sample Size – Advantages and Disadvantages of Sampling – Sampling Error – Non Sampling Error.

UNIT V: PROBABILITY & TESTING OF HYPOTHESIS**(18 HOURS)**

Probability – Meaning – Approaches – Theorems on Probability: : Addition and Multiplication Theorems, Conditional Probability – Properties of Binomial, Poisson and Normal distribution – Hypothesis testing based on Z, t, χ^2 (Chi-square) and F –test.

TEXT BOOK:

1. Gupta. S.P (2005) Statistical Methods, Sultan Chand and Sons, New Delhi. (Unit – I, II, III, IV, V. No. 330.9)
2. Dr.T.K.V.Iyengar, Dr.B.Krishna Gandhi S.Ranganantham, Dr.M.V.S.S.N Prasad, (2020) Probability and Statistics, S.Chand and Co,

REFERENCE BOOK:

1. Nadar Narayanan E, (2000), Statistics, PHI Learning Private Limited, New Delhi.
2. Saxena H.C , (2016) Elementary Statistics, S Chand and Company New Delhi.
3. Elhance D.N, (2004), Fundamentals of Statistics KitabMahal, New Delhi
4. Manoharan M (2010), “Statistical Methods”, Palani Paramount Publications, Palani.
5. R.S.N.Pillai and V. Bagavathi(2010), Statistics, Sultan Chand and Sons, New Delhi 5. Dr.S.Sachdeva (2014) Statistics -Lakshmi Narain Agarwal.

WEB RESOURCE:

1. https://books.google.com/books/about/Statistical_Methods.html?id=fCIVEAAAQBAJ
2. https://books.google.com/books/about/Basic_Statistics.html?id=YA6tuQAACAAJ

60% Problem --- 40% Theory**COURSE OUTCOMES:**

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Recall the principles, methods, and terminologies related to sampling, census survey, and sample surveys.	K1
CO2	Understand the significance, uses, and properties of regression analysis and distinguish it from correlation.	K2
CO3	Apply correlation and regression techniques, including scatter diagrams, Karl Pearson's coefficient, and regression equations, to analyze relationships in data.	K3
CO4	Analyze time series components and compute trends using methods like moving averages, semi-averages, and least squares.	K4
CO5	Evaluate and interpret the results of hypothesis testing (Z, t, Chi-square, and F-tests) to draw conclusions from data.	K5
CO6	Create appropriate models for hypothesis testing using probability distributions like Binomial, Poisson, and Normal	K6

K1- Remember K2- Understanding K3 -Apply K4- Analyze K5- Evaluate K6 - Create

COs Consistency with POs: Articulation Matrix

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	3	1	0
CO2	9	3	3	3	3	1
CO3	9	3	9	3	3	3
CO4	9	3	3	9	3	3
CO5	9	3	3	3	9	3
CO6	9	3	9	9	9	9
Weightage	54	18	28	30	28	19
Weighted percentage of course contribution to	30.51%	10.17%	15.82%	16.95%	15.82%	10.73%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2,PO4	PO3,PO5	PO6
CO2 / K2	PO1	PO2,PO3,PO4,PO5	PO6	-
CO3 / K3	PO1,PO3	PO2,PO4,PO5,PO6	-	-
CO4 / K4	PO1,PO4	PO2,PO3,PO5,PO6	-	-
CO5 / K5	PO1,PO5	PO2,PO3,PO4,PO6	-	-
CO6 / K6	PO1,PO3,PO4,PO5,PO6	PO2	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the **STATISTICAL METHODS FOR ECONOMIC ANALYSIS** course in the M.A., Degree Programme is effectively matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC4	CORE IV	PUBLIC FINANCE	LECTURE	6	5

COURSE DESCRIPTION:

This course provides a detailed understanding of public finance, covering its nature, scope, and differences from private finance. It explores public expenditure theories, taxation principles, fiscal policies, budgeting, and public revenue management. Students will analyze government spending, taxation effects, fiscal policies, and budgeting processes in the Indian economy.

COURSE OBJECTIVES:

- ✚ To make the student's known details on economics of uncertainty and information.
- ✚ To understand the role of government policies and systems. Stimulate students on issues related to taxation and public expenditure.
- ✚ To acquire knowledge on budget and fiscal policy.
- ✚ To Economic Stable economy low inflation and stable employment
- ✚ To Achieve full employment and reduce unemployment

UNIT I: INTRODUCTION TO PUBLIC FINANCE (18 HOURS)

Nature and Scope of public Economics – Public Finance and Private Finance – Theory of Social Goods – Public Goods and Private Goods – Merit Goods and Mixed Goods - The Principle of Maximum Social Advantage.

UNIT II: PUBLIC EXPENDITURE (18 HOURS)

Wagner's law of increasing state activities: Wiseman–Peacock hypothesis: Pure theory of public expenditure: Structure and growth of public expenditure: Criteria for public investment: Social cost – Benefit analysis – Project Evaluation, estimation of costs, discount rate.

UNIT III: TAXATION AND PUBLIC DEBT (18 HOURS)

Theory of incidence – Alternative concepts on incidence – Allocative and equity aspects of individual taxes – Benefit and ability to pay approaches – Theory of optimal taxation – Excess burden of taxes - Trade off between equity and efficiency – Laffer curve –Theory of measurement of debt weight losses – The problem of double taxation.

UNIT IV: FISCAL POLICY: (18 HOURS)

Objectives of fiscal policy – Full employment – anti inflation – economic growth – redistribution of income and wealth – interdependence of fiscal and monetary policies – Budgetary deficit and its implications – fiscal policy for stabilization – automatic Vs discretionary stabilization – alternative measures of resource mobilization and their impact on growth – distribution and prices.

UNIT V: BUDGET AND PUBLIC REVENUE

(18 HOURS)

Budget – Functional Classification Budget – Preparation and passing Process of Budget in India – Government Budget and its Structure – Zero Budgeting - Highlights of the Current year Budget - Public Revenue – Sources of Public Revenue – Indian Public Revenue.

TEXT BOOKS:

1. Bhatia H.L. (2023) – Public Finance Vikas Publishing House, India.(UNIT-IV,V,-NO.331.1)
2. Singh S.K. (2023) – Public Finance: Theory and Practice. Chakral Publishing, India.(UNIT-I,II,III,IV-NO-331.1)

REFERENCE BOOKS:

1. Arman Khan A. (2023) – Public Finance. Springer Publications, United States.
2. Alan S. Blinder & Robert M. (2024) – Public Finance. Brookings Institution, United States.
3. Govinda Rao (2023) – Public Finance and Policy in India. Oxford University Press, India.
4. Alan Schill (2022) – Public Finance. Routledge Publications, United Kingdom.
5. Dr. V.C. Sinha & Dr. Ritika Sinha (2021) – Public Finance. SBPD Publications, India.

WEB RESOURCE:

1. <https://hpuniv.ac.in/hpuniv/upload/uploadfiles/files/PG%20ECON%20242%20Public%20Finance.pdf>
2. <https://link.springer.com/content/pdf/10.1007/978-3-642-74999-5.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Explain the concepts of public and private finance and theories of social goods.	K1
CO2	Analyze theories of public expenditure and apply cost-benefit analysis in project evaluation.	K3
CO3	Evaluate taxation theories, tax burden, and the trade-off between equity and efficiency.	K4
CO4	Assess the role of fiscal policy in achieving economic growth, stability, and income distribution.	K5
CO5	Examine the budget preparation process, structure, and public revenue sources in India.	K4
CO6	Develop policy recommendations for effective fiscal management and resource allocation.	K6

K1 - Remember, K2 - Understand, K3 - Apply, K4 - Analyze, K5 - Evaluate, K6 - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	1	0
CO2	9	9	3	3	3	1
CO3	9	9	9	3	3	3
CO4	9	9	9	9	3	3
CO5	9	3	3	3	9	9
CO6	3	3	1	3	9	9
Weightage	48	36	28	22	28	25
Weighted percentage of course contribution to	5.67%	19.25%	14.97%	11.76%	14.97%	13.37%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3	PO4,PO5	PO6
CO2 / K2	PO1,PO2	PO3,PO4,PO5	PO6	-
CO3 / K3	PO1,PO2,PO3	PO4,PO5,PO6	-	-
CO4 / K4	PO1,PO2,PO3,PO4	PO5,PO6	-	-
CO5 / K5	PO1,PO5,PO6	PO2,PO3,PO4	-	-
CO6 / K6	PO5,PO6	PO1,PO2,PO4	PO3	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the **PUBLIC FINANCE** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC5E1	ELECTIVE I	FINANCIAL ECONOMICS	LECTURE	6	4

COURSE DESCRIPTION:

This course introduces the fundamentals of Financial Economics, covering financial functions, the time value of money, long-term financing sources, working capital management, and financial markets.

COURSE OBJECTIVES:

- ✚ To understand the core principles of financial economics and its role in corporate finance and economic development.
- ✚ To develop skills for calculating and applying the time value of money in various financial scenarios.
- ✚ To explore different sources of long-term finance and the functioning of securities markets.
- ✚ To understand the importance of working capital management and methods for optimizing capital resources.
- ✚ To analyze the structure and dynamics of financial markets, including derivative instruments and their applications.

UNIT - I: INTRODUCTION TO FINANCIAL ECONOMICS (18 HOURS)

Definition and objectives - Function - scope – evaluation - corporate finance – classification and description of finance function – Financial system and economic development.

UNIT - II: TIME VALUE OF MONEY & ITS CALCULATIONS (18 HOURS)

Future value of single cash flow, multiple cash, annuity – Present value of single cash flow, Multiple cash flow annuity, annuity dues, perpetuities - Techniques of Time value of Money - compounding technique – discounting Techniques.

UNIT - III: SOURCES OF LONG - TERM FINANCE (18 HOURS)

Equity Shares – preference shares – Debentures and bonds Term loans – retained earnings - India issues both private, Public sector - securities – Merchant banker in securities market – derivatives.

UNIT - IV: WORKING CAPITAL MANAGEMENT (18 HOURS)

Meaning, Types and objectives of working capital - Advantages of working capital saves of working capital – determinants and estimates of working capital requirements – Implicit and Explicit of capital.

UNIT - V: FINANCIAL MARKETS (18 HOURS)

Financial Markets - Call Money Market Treasury Bills Market Commercial Bills Markets, Industrial securities Market - Market for future Need for future pricing of future options options-features of options type of financial derivatives Features and benefits of derivative markets.

TEXT BOOKS:

1. Ramachandran R. & Srinivasan R (2010), Financial Management Theory, Problems and solution, Sriam Publication, 1-G Kalyanpuram, Tenu, Tiruchi 620 017.(**I, II, III, IV & V No. 380.3**)
2. D. G. Luenberger (1998) Investment Science, Oxford University Press. New York

REFERENCE BOOKS:

1. Prasana Chandra (2011), Financial Management: Theory and Practice, Tata McGraw Hill Education (P) Ltd., New Delhi
2. E.J. Elton and M.J.Gruber, (2005) Modern Portfolio Theory and Investment Analysis, Wiley, London.
3. Haugen R.A. (2001) Modern Investment Theory, Fifth Edition, Prentice Hall New Jersey.
4. J. Cvitanic and Zapatero F (2004) Introduction to Economics and Mathematics of Financial Markets, MIT Press, Cambridge, London
5. Z, Bodie, A. Kane and A. J. Marcus (2004) Investments, IRWN McGraw-Hill, London

WEB RESOURCE:

1. <https://www.investopedia.com/terms/f/financial-economics.asp>
2. <https://www.bdu.ac.in/cde/SLM/MBA/MBA%20II%20Semester/FINANCIAL%20MANAGEMENT%20BOOK.pdf>

Theory only**COURSE OUTCOMES:**

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Recall the fundamental concepts, definitions, and functions of financial economics and corporate finance.	K1
CO2	Explain the time value of money and demonstrate its calculations for future and present values, annuities, perpetuities, and related financial instruments.	K2
CO3	Apply knowledge of long-term finance sources to evaluate investment decisions in equity, bonds and other securities.	K3
CO4	Analyze working capital management strategies and estimate working capital requirements for different business scenarios.	K4
CO5	Evaluate the features, benefits, and risks of financial derivatives and their role in financial markets	K5
CO6	Synthesize knowledge of financial markets to propose effective financial strategies and solutions for real-world economic challenges.	K6

K1- Remember; **K2-** Understanding; **K3** –Apply; **K4-** Analyze; **K5-** Evaluate; **K6** - Creative

COs Consistency with POs: Articulation Matrix

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	0	0	3
CO2	9	3	3	0	1	3
CO3	9	9	3	3	3	3
CO4	9	3	3	3	1	3
CO5	9	9	3	3	9	3
CO6	9	9	9	3	9	3
Weightage	54	36	22	12	23	18
Weighted percentage of course contribution to	32.73%	21.82%	13.33%	7.27%	13.94%	10.91%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2,PO6	PO3	PO4,PO5
CO2 / K2	PO1	PO2,PO3,PO6	PO5	PO4
CO3 / K3	PO1,PO2	PO3,PO4,PO5,PO6		
CO4 / K4	PO1	PO2,PO3,PO4,PO6	PO5	
CO5 / K5	PO1,PO2,PO5	PO3,PO4,PO6		
CO6 / K6	PO1,PO2,PO3,PO5	PO4,PO6		

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **FINANCIAL ECONOMICS** course in the **M.A.,** Degree Programme is effective matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC5E2	ELECTIVE I	SERVICES MARKETING	LECTURE	6	4

COURSE DESCRIPTION:

This course on Service Marketing covers the meaning, significance, characteristics, and components of service marketing, along with strategies, service marketing mix, and models of service quality. It also delves into internal and external marketing, CRM, and various service industries like insurance, tourism, health, and telecommunication.

COURSE OBJECTIVES:

- ✚ To understand the meaning, significance, and characteristics of service marketing.
- ✚ To analyze service design processes, principles, and strategies for new service development.
- ✚ To explore the elements and dimensions of the service marketing mix and quality models.
- ✚ To study internal and external marketing strategies, including CRM and the service triangle.
- ✚ To examine the role of financial, insurance, tourism, health, and telecommunication services in service marketing.

UNIT – I: INTRODUCTION

(18 HOURS)

Services Marketing – Meaning – Significance – Characteristics – Components – Classification – Reason for Growth of service marketing – Limitations - Relationship between goods and services.

UNIT – II: SERVICE DESIGN

(18 HOURS)

Meaning – Process – Principles – Models – Service Marketing strategy Methods of service marketing strategy – New service development– Blueprinting – steps in preparation of a service blueprint– Benchmarking

UNIT – III: SERVICE MARKETING MIX

(18 HOURS)

Service Marketing Mix – Meaning – Elements – Characteristics – Quality of service – Dimensions – Gaps models of service quality.

UNIT – IV: INTERNAL & EXTERNAL MARKETING

(18 HOURS)

Internal Marketing – Meaning - Objectives – Components – Role - Steps – External marketing – Meaning Service triangle – Customer Relationship Management (CRM) – Objectives – Benefits.

UNIT – V: FINANCIAL SERVICES**(18 HOURS)**

Financial service - Insurance service – Tourism service — Health service - Telecommunication service.

TEXT BOOKS:

1. L. Natarajan (2022) Service Marketing, Margham Publications, Chennai. (Unit: I, II, III, IV, V. No. 380.8)
2. K. Rama Mohana Rao (2024) Service Marketing, Pearson Publisher, India. (Unit: I, II, III, IV, V. No. 380.8)

REFERENCE BOOKS:

1. Teresa Swartz, Lawn Iacobucci (1999), Handbook of Service and Management, SAGE Publication, Inc. California.
2. S.M. Jha. (2015) Services Marketing, S.Chand & Co., New Delhi.
3. Balaji.B. (2018) Services Marketing and Management, S.Chand & Co., New Delhi.
4. Srinivasan.R, (2019) Services Marketing-The Indian Context, PHI Learning Private Ltd, New Delhi.
5. Vasanthi Venugopal and Raghu V.N. (2019) Services Marketing, Himalaya Publishing House, Mumbai, India.

WEB RESOURCE:

1. <https://www.drnishikantjha.com/booksCollection/Service%20Sector%20Marketing%20TYBMS%202016-17.pdf>
2. <https://ebooks.inflibnet.ac.in/mgmt10/chapter/internal-marketing/>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Explain the significance, characteristics, and classification of service marketing.	K1
CO2	Analyze the principles, models, and strategies of service design and marketing.	K2
CO3	Evaluate the elements and quality dimensions of the service marketing mix.	K3
CO4	Assess the role and components of internal and external marketing in service industries.	K4
CO5	Examine the key aspects of financial, insurance, tourism, health, and telecommunication services.	K5
CO6	Apply service marketing strategies to enhance customer relationship management (CRM).	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6** – Create

COs Consistency with POs: Articulation Matrix

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	3	9	1
CO2	9	9	3	3	9	1
CO3	9	9	9	0	3	3
CO4	9	3	3	9	9	3
CO5	9	9	3	3	0	9
Weightage	45	33	19	18	30	17
Weighted percentage of course contribution to	27.78%	20.37%	11.7%3	11.11%	18.52%	10.49%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K – Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO5	PO2, PO4	PO3, PO6	-
CO2 / K2	PO1, PO2, PO5	PO3, PO4	PO6	-
CO3 / K3	PO1, PO2, PO3	PO5, PO6	-	PO4
CO4 / K4	PO1, PO4, PO5	PO2, PO3, PO6	-	-
CO5 / K5	PO1, PO2, PO6	PO3, PO4	-	PO5

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the **SERVICES MARKETING** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	I	P25EC5E3	ELECTIVE I	BEHAVIOURAL ECONOMICS	LECTURE	6	4

COURSE DESCRIPTION

Behavioral Economics explores how psychological factors and biases influence economic decision-making. The course examines deviations from traditional economic theories, focusing on real-world applications and human behavior.

COURSE OBJECTIVES

- ✚ To understand the origins and development of behavioural economics as a distinct field.
- ✚ To explore the influence of intuition, emotions, and beliefs on decision-making.
- ✚ To investigate the concepts of loss aversion, decision weighting, and mental accounting.
- ✚ To acquire the concepts such as hyperbolic discounting and preference reversal.
- ✚ To equip the role of choice architecture and behavioural public policy in influencing behaviour.

UNIT – I: INTRODUCTION TO BEHAVIOURAL ECONOMICS (18 HOURS)

Introduction to Behavioural Economics: Origins of Behavioural Economics, Decision-making under Neo-classical economic framework- rationality, optimization.

UNIT – II: ROLE OF EMOTIONS AND RATIONALITY JUDGMENT (18 HOURS)

Role of Intuition, Emotions, and Beliefs in Decision Making. Bounded Rationality Judgment under Risk & Uncertainty: Heuristics & Biases Heuristics:-Representativeness, Substitution, Availability, Affect, Anchoring. Framing Biases: Cognitive and Emotional Biases.

UNIT – III: THEORIES OF BEHAVIOURAL ECONOMICS (18 HOURS)

Choice Under Risk & Uncertainty Expected Utility Prospect Theory – Reference Points – Risk Concept and Understanding – Loss Aversion – Shape of Utility Function – Decision Weighting – Probabilistic Judgment. Mental Accounting, Framing Mental Accounts Fungibility & Labels Hedonic Editing.

UNIT – IV: THEORIES OF CHOICE AND PREFERENCES (18 HOURS)

Intertemporal Choice, Temporal Choice, Construal Level Theory, Valuation of Delayed Consumption Preferences for Sequences of Outcomes, Hyperbolic Discounting, Preference Reversal.

UNIT – V: THEORIES OF SOCIAL PREFERENCES (18 HOURS)

Behavioural Game Theory Social Preferences: Fairness, trust, cooperation, reciprocity, Norms Limited Strategic Thinking Choice architecture: Nudge, Nudge vs. boost, Behavioural public policy.

TEXT BOOKS:

1. M. Altman, (2007), Handbook of Contemporary Behavioural Economics: Foundation and Developments Prentice Hall India
2. Erik Angner, “A Course in Behavioral Economics”, Palgrave Macmillan

REFERENCE BOOKS

1. E. Cartwright, (2011), Behavioural Economics, Routledge
2. D. Kahneman,(2011), Thinking Fast and Slow Allen Lane, Penguin Books
3. G.Loewenstein, (2007), Exotic Preferences: Behavioural Economics and Human Motivation Oxford University Press.
4. Philip Corr and Anke Plagnol, (2023) Behavioral Economics Paperback.
5. David Orrell (2021) Behavioural Economics: Psychology, Neuroscience, And The Human Side Of Economics (Hot Science) Paperback.

WEB RESOURCE:

1. <https://www.investopedia.com/terms/b/behavioraleconomics.asp>
2. <https://news.uchicago.edu/explainer/what-is-behavioral-economics>

COURSEOUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	To describe the key differences between behavioural economics and the neo-classical framework.	K1
CO2	To identify various cognitive and emotional biases, such as anchoring and framing.	K2
CO3	To apply mental accounting concepts to analyze consumer behaviour.	K3
CO4	To demonstrate an ability to analyze preferences for sequences of outcomes.	K4
CO5	To evaluate the effectiveness of nudges and behavioural interventions in public policy.	K5
CO6	To analyse the principles of behavioural economics, focusing on the interplay between emotions, rationality, and judgment in shaping economic choices.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6**– Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	9	9	9	1	9
CO2	9	9	3	9	0	9
CO3	9	1	9	1	9	3
CO4	9	9	1	9	3	9
CO5	9	9	9	1	9	0
CO6	9	9	9	9	9	9
Weightage	54	46	40	38	31	38
Weighted percentage of course contribution to	21.86%	18.62%	16.19%	15.38%	12.55%	15.38%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO2, PO3, PO4, PO6	-	PO5	-
CO2 / K2	PO1, PO2, PO4, PO6	PO3	-	PO5
CO3 / K3	PO1, PO3, PO5	PO6	PO2, PO4	-
CO4 / K4	PO1, PO2, PO4, PO6	PO5	PO3	-
CO5 / K5	PO1, PO2, PO3, PO5	-	PO4	PO6
CO6 / K6	PO1, PO2, PO3, PO4, PO5, PO6	-	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **BEHAVIOURAL ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

SEMESTER - II

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC6	CORE V	MONETARY ECONOMICS	LECTURE	6	5

COURSE DESCRIPTION:

Monetary Economics focuses on the role of money, banking systems, and monetary policy in influencing economic activity. The course examines topics like inflation, interest rates, and the impact of central banking on macroeconomic stability.

COURSE OBJECTIVES:

- ✚ To understand the key components of quantity theories of money.
- ✚ To comprehend the process of money supply determination and the role of high-power money and money multipliers.
- ✚ To understand the functions of money and its measurement techniques.
- ✚ To explore the structure and functions of money and capital markets.
- ✚ To explore the functions and roles of commercial and central banks in the economy.

UNIT - I: THEORIES OF MONEY

(18 HOURS)

The classical Approach – The Keynesian Approach - Quantity Theories of Money – Fishers Cash Transaction Approach and Cambridge Cash Balance Approach – Monetary Theory – Don Patinkin’s Real Balance effect – Milton Fried Man’s Restatement of Quantity theory of money.

UNIT - II: SUPPLY OF MONEY

(18 HOURS)

Money supply – Definition – Determination of Money supply – High Power Money – Money Multipliers – Classical Theories of Interest –Keynes Liquidity Preference Theory of Interest and Modern theory of Interest.

UNIT - III: EVALUATION AND FUNCTIONSOF MONEY

(18 HOURS)

Theoretical and empirical definitions of Money – Money and Near Money – Neutrality and Non- Neutrality of Money – Functions of Money – Meaning of Value of Money and Methods of measurement.

UNIT - IV: FINANCIAL MARKET

(18 HOURS)

Money Market – Meaning –Financial Institutions in the Money Market - Functions of Money Market –Characteristics of Underdeveloped and Developed Money Market - Capital Market – Meaning –Importance of Capital Market – Recent trends.

UNIT - V: BANKING

(18 HOURS)

Commercial Bank - Meaning –Functions – Role of commercial Banks –Investment Policy of Banks –Central Bank - Functions–Credit Control – Objectives – Methods – Role of Central Bank in a Developing Economy -Recent Banks Reforms –Raguramrajan Committee Report.

TEXT BOOKS:

1. Jhingan, M.L. (2005), Monetary Economics, Konark Publication, New Delhi. (Unit – I, II, III, IV, V. No. 330.7)
2. Sundaram, K.P.M. (2003), Money, Banking and International Trade, Vikas, New Delhi.

REFERENCE BOOKS:

1. Suraj B Gupta (2010) Monetary Economics - Institutions, Theory and Policy, S. Chand Publication, New Delhi
2. Vaish, M.C. (2004), Money, Banking and International Trade, New Age International, New Delhi.
3. Gupta, R.D. (1995), Keynes and Post Keynesian Economics, Kalyani Publishers, New Delhi.
4. Basil J. Moore (1965), An Introduction to the Theory of Finance, Oxford University Press.
5. Basu, S.K. (1975), Recent Banking Development, Chand and Co., New Delhi.

WEB RESOURCE:

1. <https://www.investopedia.com/terms/m/monetarypolicy.asp>
2. https://joseordinolaboyer.wordpress.com/wp-content/uploads/2011/01/bain_y_howells_monetary_economics_policy_and_its_theoretical_basis.pdf

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	To able to differentiate between classical and Keynesian monetary theories.	K1
CO2	Students will be able to explain the determinants of money supply and its implications for the economy.	K2
CO3	To apply methods to measure the value of money and understand its impact on economic activities.	K3
CO4	To evaluate the recent trends in capital markets and their impact on economic development.	K4
CO5	To describe the investment policies of banks and the methods of credit control used by central banks.	K5
CO6	To analyze the structure and operations of financial markets and banking institutions to understand their role in economic stability and growth.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6**– Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	9	9	1	3	9
CO2	9	9	1	9	0	3
CO3	9	1	9	3	9	0
CO4	9	9	0	9	1	9
CO5	3	9	9	9	9	1
CO6	9	3	9	9	9	9
Weightage	48	43	37	43	31	31
Weighted percentage of course contribution to	20.60%	18.45%	15.88%	18.45%	13.30%	13.30%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO2, PO3, PO6	PO5	PO4	-
CO2 / K2	PO1, PO2, PO4	PO6	PO3	-
CO3 / K3	PO1, PO3, PO5	PO4	PO1	PO6
CO4 / K4	PO1, PO2, PO4, PO6	-	PO5	PO3
CO5 / K5	PO2, PO3, PO4, PO5	PO1	PO6	-
CO6 / K6	PO1, PO3, PO4, PO5, PO6	PO2	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **MONETARY ECONOMICS** course in the **M.A.**, Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC7	CORE VI	INDIAN ECONOMIC DEVELOPMENT	LECTURE	6	4

COURSE DESCRIPTION:

This course provides an in-depth understanding of the Indian economy, covering its historical evolution, sectoral composition, industrial development, economic policies, and foreign trade. It explores key economic issues such as poverty, unemployment, planning, globalization, and the impact of policy reforms, including the LPG model and WTO agreements.

COURSE OBJECTIVES:

- ✚ To understand the basic features and challenges of the Indian economy, including demographic trends, poverty, and unemployment.
- ✚ To analyze the role of agriculture in economic development, productivity issues, land reforms, and policy measures under various Five-Year Plans.
- ✚ To examine the industrial development process, major industrial policies, and the role of public and private sectors in India's economy.
- ✚ To evaluate economic planning in India, the transition from the Planning Commission to NITI Aayog, and fiscal relations between the Centre and States.
- ✚ To assess India's foreign trade policies, the impact of globalization, and the role of international organizations such as WTO in shaping the Indian economy.

UNIT - I: BASIC FEATURES AND PROBLEMS OF INDIAN ECONOMY (18 HOURS)

Economic History of India: Nature of Indian Economy - Demographic Features and Human development Index - Problems of Unemployment – Poverty - Vicious Circle of Poverty – Causes of Poverty – Poverty Alleviation Measures.

UNIT - II: SECTORAL COMPOSITION OF INDIAN ECONOMY (18 HOURS)

Agricultural development under Five year plan; Productivity in Agriculture – Causes for Low Productivity - Remedial Measures – Land Reforms – Green Revolution and Agricultural Policies of India- New Economic Policy and Agriculture.

UNIT - III: INDUSTRIAL DEVELOPMENT IN INDIA (18 HOURS)

Under Five year plans – A Prelude of Industrialization- Problems of Small Scale and Cottage Industries – Industrial policy 1948, 1956 – New Industrial Policy 1991 – Role of Public and Private Sectors in India.

UNIT - IV: ECONOMIC POLICIES (18 HOURS)

Economic Planning, Planning Commission v/s NITI Aayog, Five- Year plans in India – Centre and State Finance relations - Finance Commission in India - LPG Policy in India.

UNIT - V: FOREIGN TRADE IN INDIA

(18 HOURS)

Importance – Evolution of India’s Foreign Trade – Composition of Foreign Trade – BOP since 1991, FDI in India, Impact of Globalisation on Indian Economy – WTO, Objectives, Functions – WTO and India – Criticism of New Keynesian Economics.

TEXT BOOKS:

1. Dutt Rudd and KPM Sundaram(2017) Indian Economy S. Chand & Co. Ltd. New Delhi. (Unit – I, II, III, IV, V. No. 330.4)
2. Mishra S.K & V.K. Puri (2017) Indian Economy and its Development experience Himalaya Publishing House.

REFERENCE BOOKS:

1. Kaushik Basu (2007) The Oxford Companion to Economics of India. Oxford University Press.
2. Ramesh Singh (2016): Indian Economy, Tata- MC Graw Hill Publications NewDelhi.
3. Sankaran, (2010) Indian Economy, Margham Publications, Chennai.
4. Uma Kapila, (2024 - 25) Indian Economy: Development and Policy.
5. Deepashree, (2013) “Indian Economics, Performance and Polices”, ANE Books Pvt. Ltd. New Delhi, 2013.

WEB RESOURCE:

1. <https://ncert.nic.in/textbook/pdf/keec101.pdf>
2. <https://bybelladlawcollege.org/wp-content/uploads/2021/03/Economic-Development-in-India.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Describe the basic structure of the Indian economy and analyze key economic problems such as poverty and unemployment.	K1, K2
CO2	Explain agricultural productivity trends, the impact of land reforms, and policy measures for agricultural development.	K2, K3
CO3	Assess industrial growth, challenges in small-scale industries, and the impact of industrial policies on economic development.	K3, K4
CO4	Compare and contrast different economic planning models, analyze fiscal relations, and evaluate policy changes under NITI Aayog.	K4, K5
CO5	Analyze India's foreign trade patterns, FDI trends, and the impact of globalization on different sectors of the economy.	K5
CO6	Formulate policy recommendations for sustainable economic growth and critically assess the role of WTO and other global institutions.	K6

K1- Remember **K2**- Understanding **K3** -Apply **K4**- Analyze **K5**- Evaluate **K6** - Creative

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	3	1
CO2	9	9	3	3	9	3
CO3	3	3	9	3	3	1
CO4	3	3	3	9	3	3
CO5	9	3	9	9	9	9
CO6	3	9	9	9	9	9
Weightage	36	30	36	34	36	26
Weighted percentage of course contribution to	18.18%	15.15%	18.18%	17.17%	18.18%	13.13%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3, PO5	PO4, PO6	----
CO2 / K2	PO1, PO2, PO5	PO3, PO4, PO6		----
CO3 / K3	PO3	PO1, PO2, PO4, PO5, PO6		----
CO4 / K4	PO4	PO1, PO2, PO3, PO5, PO6		----
CO5 / K5	PO1, PO3, PO4, PO5, PO6	PO2		----
CO6 / K6	PO2, PO3, PO4, PO5, PO6	PO1		----

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **INDIAN ECONOMIC DEVELOPMENT** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC8	CORE VII	MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS	LECTURE	6	4

COURSE DESCRIPTION:

This course explores mathematical concepts in economic theory, including set theory, differential calculus, partial differentiation, and matrices. It equips students with analytical tools for economic modeling and problem-solving.

COURSE OBJECTIVES:

- ✚ To understand the foundational concepts of mathematical economics.
- ✚ To explore the methods and properties of sets, Venn diagrams, and Cartesian products for analytical problem-solving.
- ✚ To learn differentiation and partial differentiation techniques and apply them to economic concepts like maxima, minima, cost, and revenue functions.
- ✚ To analyze and perform matrix operations, including addition, subtraction, multiplication, determinants, and solving linear equations using Cramer's Rule and the inverse method.
- ✚ To develop analytical skills to apply mathematical tools in economic modeling and decision-making.

UNIT - I: MATHEMATICS IN ECONOMIC THEORY (18 HOURS)

Mathematical Economics – Meaning – Nature – Scope - Role – Constants – Types – Variables, Parameters, intercepts Coefficients – Mathematical Economics Vs Econometrics – Applications to Demand and Supply Functions.

UNIT - II: SET THEORY (18 HOURS)

Meaning - Definition – Elements - Methods of Sets – Types of Sets – Venn diagram – Set Operations – Laws of Properties of Sets - Cartesian product.

UNIT - III: DIFFERENTIAL & INTEGRAL CALCULUS (18 HOURS)

Differentiation – Meaning – Rules of differentiation: Power function rule –Constant function rule – Addition Rule – Subtraction Rule - Product Rule – Quotient Rule – Chain rule – Integral Calculus: Meaning – Rules of Integration - Application to consumer's surplus and producer's surplus.

UNIT - IV: PARTIAL DIFFERENTIATION (18 HOURS)

Rules of partial differentiation –Maxima and Minima – Meaning – Conditions – Applications of Maxima and Minima in Economics: cost and revenue functions.

UNIT - V: MATRICES

(18 HOURS)

Definition – Types of Matrices – Properties – Matrix Operations: Addition, Subtraction and Multiplication of Matrices - Process –Determinant of a Matrix – Properties of Determinants –Solving linear equations: Inverse method – Transpose of a matrix - Cramer’s Rule.

TEXT BOOKS:

1. P. R. Vittal, (2012) Business Mathematics and Statistics, Margham Publications, Chennai. (Unit – I, II, III, IV, V. No. 330.9)
2. Bose D. (2017) An Introduction to Mathematical Methods, Pune: ,Himalaya Publishing House Pvt. Ltd: 1st Edition.

REFERENCE BOOK:

1. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
2. Agarwal (2011), Mathematics for Economists, Vrinda Publications (P) Ltd, New Delhi.
3. Yamane, Taro (2009) Mathematics for Economists, Prentice Hall Publication, 2nd Edition.
4. Salvatore, Dominick (1992), Mathematics for Economists, Schaum Series.
5. K. Sydsaeter and P Hammond, (2002) Mathematics for Economic Analysis, Pearson Educational Asia, Delhi.

WEB RESOURCE:

1. <https://www.goodreads.com/book/show/30652420-business-mathematics-and-statistics> (goodreads.com)
2. https://books.google.com/books/about/Fundamental_Methods_of_Mathematical_Econ.html?id=LKIwAQAAAJ

60% Problem 40% Theory

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Understand the role of mathematical economics in economic theory and applications.	K1
CO2	Apply set theory concepts to economic modeling and problem-solving.	K2
CO3	Utilize differential calculus techniques for economic functions and optimization.	K3
CO4	Analyze economic relationships using partial differentiation and its applications.	K4
CO5	Perform matrix operations and solve linear equations using determinants and Cramer’s Rule.	K5
CO6	Develop mathematical reasoning skills for economic decision-making and analysis.	K6

K1- Remember; **K2-** Understanding; **K3** –Apply; **K4-** Analyze; **K5-** Evaluate; **K6** - Create

COs Consistency with POs: Articulation Matrix

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	3	1	0
CO2	9	3	3	1	1	0
CO3	9	3	9	9	3	3
CO4	9	3	9	9	3	3
CO5	9	3	3	3	9	3
CO6	9	3	9	9	9	9
Weightage	54	18	36	34	26	18
Weighted percentage of course contribution to	29.03%	9.68%	19.35%	18.28%	13.98%	9.68%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3, PO4	PO5	PO6
CO2 / K2	PO1	PO2, PO3	PO4, PO5	PO6
CO3 / K3	PO1, PO3, PO4	PO2, PO5, PO6	-	-
CO4 / K4	PO1, PO3, PO4	PO2, PO5, PO6	-	-
CO5 / K5	PO1, PO5	PO2, PO3, PO4, PO6	-	-
CO6 / K6	PO1, PO3, PO4, PO5, PO6	PO2	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the **MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS** course in the M.A., Degree Programme is effectively matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC9E1	ELECTIVE II	LABOUR ECONOMICS	LECTURE	6	4

COURSE DESCRIPTION:

This course explores the economics of labor, including labor market dynamics, wage determination, employment issues, industrial safety, social security, and trade unions. It examines labor policies, collective bargaining, manpower planning, and the role of industrial relations in shaping labor welfare and economic development in India.

COURSE OBJECTIVES:

- ✚ To understand the nature, scope, and significance of labor economics, division of labour, and its implications.
- ✚ To analyze labour market structures, wage determination factors, wage policies, and collective bargaining in India.
- ✚ To examine employment issues, manpower planning, industrial discipline, and safety measures in labour-intensive sectors.
- ✚ To evaluate social security measures in India, including key labor laws and policies influencing worker welfare.
- ✚ To assess the role of trade unions, industrial relations, and collective bargaining in ensuring labour rights and industrial harmony.

UNIT - I: LABOUR ECONOMICS

(18 HOURS)

Nature, Scope and Significance of Labour Economics – Origin and Growth of Labour Economics - Importance of Labour Economics – Labour as a unique factor of production – Division of Labour – Different Types of Division of Labour – Advantages and Disadvantages of Division of Labour.

UNIT - II: LABOUR MARKET AND WAGE DETERMINATION

(18 HOURS)

Labour Market - Concept of labour Market and its features – Determinants of the supply and the demand for labour – Organized and unorganized labour. Wages - Wage Concept and Definitions – Wage and development – Collecting bargaining – Wage differentials – Wage Policy - Objectives and importance.

UNIT- III: EMPLOYMENT & INDUSTRIAL SAFETY

(18 HOURS)

Employment – Problems of Unemployment – Types – Causes and Effects – Remedies – Role of Employment Exchanges in India– Manpower planning – Industrial discipline – Grievances – accident and safety.

UNIT - IV: SOCIAL SECURITY IN INDIA

(18 HOURS)

Social Security – ILO and security. Social security- meaning and importance – Social security measures in India – Employees State Insurance Act 1948 – Employees Provident Funds Act 1952 and Public Provident Funds Act 1968 – Subsequent developments - Labour Policy, Objectives and Importance – Emerging perception on state intervention.

UNIT - V: TRADE UNIONS AND COLLECTIVE BARGAINING (18 HOURS)

Meaning, objectives, functions of trade union, development of trade unions in India – Industrial relations – Industrial disputes – workers participation in management – Industrial peace and collective bargaining– The present state of industrial relation in India.

TEXT BOOKS:

1. Jiwitesh Kumar Singh, (1998), Labour Economics- Principles Problems and Practices, Deep and Deep Publications Pvt. Ltd, New Delhi. (Unit – I, II, III. No. 330.8)
2. Dr. D. R. Agarwal (1998), Labour Problems, Social Welfare and Security, King Books, Educational Publishes, Delhi. (Unit – I, II, III, IV, V. No. 330.8)

REFERENCE BOOKS:

1. Kamik, V.B., Indian Trade Union (1966): A Survey (Mumbai: Allied Publishers Pvt. Ltd.
2. Mcconnell, Capbell R., and Stanley.L.Brue (1989), Contemporary Labour Economics, Singapore, McGrew-Hill Book Co.,
3. Joshi M V, (20140, Labour Economics and Labour Problems, Atlantic Publishers and Distributors Private Limited, New Delhi.
4. Pierre, (2015) Labor Economics, PHI Learning Private Limited, New Delhi.
5. Panda B K, (2015) Economics of Labour and Industry, Gvph Publishers and Exporter, New Delhi.

WEB RESOURCE:

1. <https://economics.mit.edu/sites/default/files/inline-files/Lectures%20in%20Labor%20Economics.pdf>
2. https://www.msuniv.ac.in/images/distance%20education/learning%20materials/ug%20pg%202023/pg%202021/MA%20economics%202023/SECM22-IISem-Labour_Economics.pdf

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Define the scope and importance of labor economics and explain the advantages and disadvantages of division of labor.	K1, K2
CO2	Analyze labor market characteristics, demand and supply factors, wage differentials, and the role of collective bargaining.	K3, K4
CO3	Evaluate employment challenges, causes and effects of unemployment, and the effectiveness of manpower planning.	K4, K5
CO4	Examine social security measures, labor policies, and the role of state intervention in labor welfare.	K4, K5
CO5	Assess the role of trade unions, industrial relations, and dispute resolution mechanisms in India.	K5
CO6	Formulate strategies for improving labor conditions, ensuring industrial peace, and enhancing worker participation in management.	K6

K1- Remember; K2- Understanding; K3 –Apply; K4- Analyze; K5- Evaluate; K6 – Creative

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	1	9
CO2	3	9	3	1	3	1
CO3	9	1	9	3	9	3
CO4	3	9	9	9	3	1
CO5	3	3	3	9	9	3
CO6	3	3	1	3	3	9
Weightage	30	28	28	26	28	26
Weighted percentage of course contribution to	18.07%	16.87%	16.87%	15.66%	16.87%	15.66%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO6	PO2, PO3	PO4, PO5	---
CO2 / K2	PO2	PO1, PO3, PO5	PO4, PO6	---
CO3 / K3	PO1, PO3, PO5	PO4, PO6	PO2	---
CO4 / K4	PO2, PO3, PO4	PO1, PO5	PO6	---
CO5 / K5	PO4, PO5	PO1, PO2, PO3, PO6		---
CO6 / K6	PO6	PO1, PO2, PO4, PO5	PO3	---

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **LABOUR ECONOMICS** course in the **M.A.**, Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC9E2	ELECTIVE II	HEALTH ECONOMICS	LECTURE	6	4

COURSE DESCRIPTIONS:

This course explores the economics of health and medical care, emphasizing health indicators, demand and supply analysis, healthcare industry dynamics, cost-benefit analysis, and health policies. It also delves into healthcare systems, market failures, and the role of insurance, providing students with a comprehensive understanding of the intersection between economics and healthcare.

COURSE OBJECTIVES:

- ✚ To Understand and analyse the various significance of Health and Health care indicators in Tamil Nadu and India.
- ✚ To gain knowledge about health and health economics.
- ✚ To understand the demand for and supply of health care industry.
- ✚ To know the Production Cost, Health Police and Health Programme.
- ✚ To Improve Health Literacy and Empower Individuals to make informed decisions about their health.

UNIT - I: HEALTH ECONOMICS

(18 HOURS)

Health: Meaning – definition – Essential features of Health Economics _ Indicators of health – Health Care – Health Care Services – Birth rate, Fertility rate, Death rate, IMR, CMR, MMR, Morbidity rate (Acute and Chronic), Disability Adjusted Life Year (DALY), Quality Adjusted Life Year (QUALY), Sex Ratio.

UNIT - II: DEMAND FOR SUPPLY OF HEALTH CARE

(18 HOURS)

Demand for health care: Meaning – Demand for medical care – Purpose of demand analysis in medical care – Patient's factors and Physician factors – Supply of health care: Primary health centres – Measures of health status. Meaning – Determinations of health status – Demography factors – Economic factors – environmental factor – genetic factors.

UNIT – III: ECONOMICS OF HEALTH CARE

(18 HOURS)

HEALTH CARE: Meaning – Health care Industry – Short-run production function: Production function of the representative firms – factors affecting the positions of the short-run cost curves. Long run costs of production: Long run cost curves- long run cost minimization.

UNIT – IV: COST – BENEFIT ANALYSIS HEALTH CARE SYSTEMS (18 HOURS)

Cost Identification Analysis — principle of cost – benefit analysis – benefit analysis to make health care decision – the value of life – the cost and benefits of medical technology. Health Insurance – Meaning – Concept of User Cost – types of insurance.

UNIT – V: HEALTH POLICY AND HEALTH CARE PROGRAMME (18 HOURS)

Health Policy of WHO – International Health care plants: Core Plans, Outpatient plans, Maternity plans, Dental Plans, Repatriation plan – national Health Policy.

TEXT BOOKS:

1. Thomas E. Getzen (2022) Health Economics and Financing Wiley Publication United States.
2. Barbara McPake (2020) Health Economics Routledge publication United Kingdom.

REFERENCE BOOKS:

1. Sherman Folland Allen Goodman (2023) Economics of Health and Health Care Routledge publicationmn United States.
2. Thomas E. Getzen (2022) Health Economics and Financing Wiley Publication United States.
3. Barbara McPake (2020) Health Economics Routledge publication United Kingdom.
4. Himanshusehkar (2021) Health Economics In India New Delhi
5. Henderrson W.J. (2022) Health Economics and Policy Third Edition Thomson South Western Mansan.

WEB RESOURCE:

1. <https://pmc.ncbi.nlm.nih.gov/artic>
2. <https://www.ncbi.nlm.nih.gov/books/NBK436886/>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Define and explain health economics and health indicators such as birth rate, mortality rate, and morbidity rate.	K1, K2
CO2	Analyze the demand and supply of healthcare, and examine the factors affecting medical care demand and health status.	K3, K4
CO3	Evaluate healthcare production costs, market failures, and the role of asymmetric information in healthcare markets.	K4, K5
CO4	Apply cost-benefit analysis and cost-effectiveness techniques to healthcare decisions and assess the value of life and medical technologies.	K4, K5
CO5	Examine health policies and healthcare programs, including WHO guidelines and national health policies like NRHM.	K5
CO6	Propose policy recommendations for improving healthcare systems, based on economic principles and cost-benefit analysis.	K6

K1 - Remember, **K2** - Understand, **K3** - Apply, **K4** - Analyze, **K5** - Evaluate, **K6** - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	9	3	3	1	3
CO2	3	9	9	3	1	3
CO3	9	9	9	9	3	9
CO4	9	9	9	9	3	9
CO5	9	9	9	9	9	9
CO6	9	9	9	19	3	9
Weightage	42	54	48	52	20	42
Weighted percentage of course contribution to	16.28 %	20.93 %	18.60 %	20.16 %	7.75%	16.28 %

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2,PO3,PO4,PO6	PO5	-
CO2 / K2	PO1,PO2	PO3,PO4,PO5	PO5	-
CO3 / K3	PO1,PO2,PO3,PO4,PO6	PO5	-	-
CO4 / K4	PO1,PO2,PO3,PO4,PO6	PO5	-	-
CO5 / K5	PO1,PO2,PO3,PO4,PO6	PO5	-	-
CO6 / K6	PO1,PO2,PO3,PO4,PO6	PO5	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **HEALTH ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC9E3	ELECTIVE II	RURAL DEVELOPMENT	LECTURE	6	4

COURSE DESCRIPTION:

This course provides an in-depth understanding of rural economics, covering rural resources, demographics, occupational structures, and socio-economic challenges. It explores rural development planning, poverty, unemployment, and policies addressing these issues. The course also examines technological applications, social development, and family welfare measures for rural economic growth in India.

COURSE OBJECTIVES:

- ✚ To understand the nature, scope, and interdisciplinary approach of rural economics and rural-urban linkages.
- ✚ To analyze rural resource management, technological applications, and their impact on rural development.
- ✚ To study rural demographic trends, population challenges, and family welfare measures.
- ✚ To examine the occupational structure, work participation rates, and social development in rural areas.
- ✚ To evaluate rural poverty, unemployment, and the effectiveness of rural development policies and programs in India.

UNIT – I: INTRODUCTION TO RURAL DEVELOPMENT (18 HOURS)

Nature and Scope of Rural Development - Pattern of Development–Rural – Urban Linkages – Challenges in rural development. Rural Development planning and Development.

UNIT – II: RURAL RESOURCES MANAGEMENT IN INDIA (18HOURS)

Rural Resources - Rural Resources Management and Development – Application of Technology in Rural Development – Problems and Prospects - Family Welfare Measures in Rural India – Factors Affecting Rural Growth.

UNIT –III: INSTITUTIONAL AND ORGANISATIONAL CHANGES (18HOURS)

Panchayat Raj and Co-operatives – Similarities between Panchayat Raj Institutions And Co-operatives – National Cooperative Policy –NGO: Definition – Types of NGO – Role of NGO’s in Rural Development – SelfHelp Groups –Meaning – Origin – Evolution – Functions – Advantages – Problems – Social and Welfare Organisation.

UNIT – IV: RURAL OCCUPATIONAL STRUCTURE (18HOURS)

Nature of Rural Occupations – Occupational Distribution in Rural India – The Concept of Work Participation Rates – Social Development in rural areas- Training Institution for Rural Development – NABARD –RRB-CAPART- FTC-KVK.

UNIT – V: RURAL POVERTY AND UNEMPLOYMENT**(18HOURS)**

Rural Poverty – Causes and Consequences Unemployment –Types and Magnitude of Rural Unemployment – Rural Development Policies and Programmes in India- Bharat Nirman, Provisions of Urban Amenities in Rural Area- Mahatma Gandhi National Rural Employment Guarantee Act.

TEXT BOOKS:

1. Prasad, B.K. (2021) – Rural Development in India. Concept Publishing Company, India.
2. Venkat-a Ravi (2022) – Rural Development Rawat Publications, India.
(UNIT-I,II,III,IV,V- NO-330.8)

REFERENCE BOOKS:

1. Ganesh A. Kumar & Gopal Naik (2023) – Rural Transformations in India Springer Publications India.
2. Dr. Rajesh Singh (2023) – Panchayati Raj and Rural Development Policy, Practice, and Implications Kanishka Publishers India.
3. Gary Paul Green (2023) – Rural Development Edward Elgar Publications United Kingdom.
4. Olatunji, B.O. & Adenira, A.A. (2022) – Agricultural and Rural Development Palgrave Macmillan Publications United States.
5. Katar singh (2023) Rural Development SAGE Publication,India

WEB RESOURCE:

1. <https://www.scribd.com/document/739714917/Rural-Economics>
2. <https://ncert.nic.in/textbook/pdf/keec105.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Explain the fundamental concepts, scope, and challenges of rural economics, including rural-urban linkages.	K1, K2
CO2	Analyze rural resource management techniques and the role of technology in rural development.	K3, K4
CO3	Evaluate the demographic patterns of rural India, population issues, and welfare measures.	K4, K5
CO4	Assess the occupational structure, work participation rates, and social development in rural areas.	K4, K5
CO5	Examine the causes and consequences of rural poverty and unemployment, along with rural development policies.	K5
CO6	Develop strategies for sustainable rural economic growth by integrating resources, policies, and development programs.	K6

K1 - Remember, **K2** - Understand, **K3** - Apply, **K4** - Analyze, **K5** - Evaluate, **K6** - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	3	1
CO2	9	9	3	3	9	3
CO3	3	3	9	3	3	1
CO4	3	3	3	9	3	3
CO5	9	3	9	3	9	9
CO6	3	9	9	9	9	9
Weightage	36	30	36	28	36	26
Weighted percentage of course contribution to	18.75%	15.67%	18.75%	14.58%	18.75%	13.54%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3, PO5	PO4, PO6	-
CO2 / K2	PO1, PO2, PO5	PO3, PO4, PO6	-	-
CO3 / K3	PO3	PO1, PO2, PO4, PO5	PO6	-
CO4 / K4	PO1, PO2, PO3, PO5, PO6	PO4	-	-
CO5 / K5	PO1, PO3, PO5, PO6	PO2, PO4	-	-
CO6 / K6	PO2, PO3, PO4, PO5, PO6	PO1	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the **RURAL DEVELOPMENT** course in the **M.A.**, Degree Programme is effective matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credit
ECOPG1960	II	P25EC10E1	ELECTIVE III	MANAGERIAL ECONOMICS	LECTURE	6	4

COURSE DESCRIPTION:

This course provides a comprehensive understanding of managerial economics, focusing on economic theories and their application in business decision-making. It covers business firm theories; demand forecasting, cost analysis, market structures, business cycles, and distribution theories. Students will gain analytical skills to evaluate economic conditions for effective managerial decisions.

COURSE OBJECTIVES:

- ✚ To make the students understand the application of economic tools and logic to business decision making.
- ✚ To analyse and forecasting demand and pricing methods.
- ✚ To maximize profits by optimizing production, pricing, and investment decisions.
- ✚ To understand the various market structures.
- ✚ To analyse the national income and business cycle.

UNIT – I: MANAGERIAL ECONOMICS

(18 HOURS)

Meaning – Definition – Nature – Characteristics – Scope of Managerial Economics – Role of Managerial Economist in Business – Principles of Managerial Economics - Relation to other branches of knowledge.

UNIT – II: THEORIES OF BUSINESS FIRM

(18 HOURS)

Profit Maximization Theory – Managerial Theories: Williamson’s theories of the firm – Growth Maximization Theory of Marries – Boumol’s sales maximization Theory – Behavioral Theories: Simon’s Satisfying Theory – Scitovsky’s satisfaction maximization theory – Behavioral Theory of Cert. and March.

UNIT – III: DEMAND & FORECASTING

(18 HOURS)

Demand: Meaning – Law of Demand – Elasticity of Demand – Types of Elasticity of Demand – Demand Forecasting: Meaning - Importance – Types – Objectives – Methods – Features – Forecasting demand for new products – Criteria of a good forecasting method.

UNIT – IV: MARKET STRUCTURE

(18 HOURS)

Perfect Competition: Features – Price and Output Determination - Monopoly – Price Discrimination - Duopoly – Oligopoly: Types – Features – Kinked Demand Curve - Monopolistic Competition – Features - Price and Output Determination.

UNIT – V: BUSINESS CYCLES**(18 HOURS)**

Meaning – Features - Characteristics – Phases of Business Cycle – Theories of Business Cycle: Sunspot Theory or Climatic Theory – Psychological Theory – Over Investment Theory – Over saving or Under Consumption Theory - Control of Business cycle.

TEXT BOOKS:

1. Sankaran, S. (2023) – Managerial Economics. McGraw-Hill Education, India. **(UNIT-I, II, III, IV, V-NO-330.7)**
2. Divedi, D.N. (2022) – Managerial Economics. Vikas Publishing House, India.

REFERENCEBOOKS:

1. Yogesh Maheshwari (2023) – Managerial Economics. PHI Learning Pvt. Ltd., India.
2. Paul G. Keat, Philip K.Y., & Stephen E. (2021) – Managerial Economics. Pearson Education, India.
3. Ahuja, H.L. (2021) – Managerial Economics. S. Chand Publishing, India.
4. Michael R. Baye (2025) – Managerial Economics. McGraw-Hill Education, United States.
5. William F. Samuelson & Stephen G. (2023) – *Managerial Economics*. Wiley Publications, United States.

WEB RESOURCE:

1. https://en.wikipedia.org/wiki/Managerial_economics
2. https://kcskasinarcollege.in/download/files/economics/notes/Managerial_Economics_Mcom.pdf

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Explain the fundamental concepts and principles of managerial economics.	K1, K2
CO2	Analyze various business firm theories and their practical relevance.	K3, K4
CO3	Evaluate demand forecasting techniques, production functions, and cost structures.	K4, K5
CO4	Compare and contrast different market structures and their pricing strategies.	K4, K5
CO5	Assess the impact of business cycles and theories of distribution on economic stability.	K5
CO6	Develop strategic business decisions based on economic theories and market conditions.	K6

K1 - Remember, **K2** - Understand, **K3** - Apply, **K4** - Analyze, **K5** - Evaluate, **K6** - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	3	1	3
CO2	9	9	3	3	1	3
CO3	9	9	9	9	3	9
CO4	9	9	9	9	3	9
CO5	9	9	9	9	3	9
CO6	9	9	9	9	3	9
Weightage	54	48	42	42	14	42
Weighted percentage of course contribution to	2.31%	19.83%	17.36%	17.36%	5.79%	17.36%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2,PO3,PO4, PO6	PO5	-
CO2 / K2	PO1,PO2	PO3,PO4,PO6	PO5	-
CO3 / K3	PO1,PO2,PO3,PO4,PO6	PO5	-	-
CO4 / K4	PO1,PO2,PO3,PO4,PO6	PO5	-	-
CO5 / K5	PO1,PO2,PO3,PO4,PO6	PO5	-	-
CO6 / K6	PO1,PO2,PO3,PO4,PO6	PO5	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the **MANAGERIAL ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs/Week	Credits
ECOPG1960	II	P25EC10E2	ELECTIVE III	HUMAN RESOURCE DEVELOPMENT	LECTURE	6	4

COURSE DESCRIPTIONS:

This course focuses on Human Resource Development (HRD), emphasizing the importance of HRD in organizations, methods of recruitment and job evaluation, and effective training and development techniques. It explores the process of identifying problem areas, designing training programs, and evaluating their impact on organizational performance.

COURSE OBJECTIVES:

- ✚ To understand the meaning, importance, and scope of Human Resource Development, including recruitment, selection, and job performance evaluation.
- ✚ To analyze human resource planning, recruitment strategies, selection processes, and job analysis techniques for effective employee placement.
- ✚ To examine various training methods, models, and evaluation techniques to enhance workforce skills and competencies.
- ✚ To assess performance appraisal techniques, including 360-degree appraisal, promotion, transfer, and separation policies.
- ✚ To explore HRD research studies, extension training programs, and evaluation techniques for effective HR development.

UNIT - I: INTRODUCTION OF HRD

(18 HOURS)

Human Resource Development – Meaning – Definition – Importance – Scope – Roles and competencies of HRD professionals - Challenges in HRD.

UNIT - II: HUMAN RESOURCE PLANNING

(18 HOURS)

Human Resource Planning: Purpose and Process - Recruitment and Selection: Source of Recruitment, Stages in Selection Process - Placement, Goals Analysis: Job Description and Job Specification.

UNIT - III: TRAINING AND DEVELOPMENT

(18 HOURS)

Training – Meaning – Determining Training Needs and Developing Strategies – Training Types – Training Models – Training Methods – Training Evaluation.

UNIT - IV: PERFORMANCE APPRAISAL

(18 HOURS)

Meaning – Concept and Objectives of Performance Appraisal - Process of Performance Appraisal - Criteria for Performance Appraisal - Benefits of Performance Appraisal - Limitation and Constraints - 360 Degree Performance Appraisal.

UNIT - V: HRD RESEARCH STUDIES**(18 HOURS)**

Developing, Designing, and Institutions – Training in Human Resource Development.
 Implementing Extension Training Programmes – Monitoring and Evaluation of Extension Training.

TEXT BOOKS

1. Balaji C.D. (2018), Human Resource Management, Margham Publication, Chennai. **(Unit I, II, III, Call No. 380.32 BAL.D – 22013631).**
2. Jaysankar J (2014), Human Resource Development, Margham Publications, Chennai, **(Unit: IV & V, Call No. 380.32 JAY.J – 33008062)**

REFERENCE BOOKS:

1. Carole Elliott, Laura L. Bierema Jamine.L Callahan Tomika . W (2023) Routledge United Kingdom.
2. Richard .A. Swanson (2022) Foundations of Human Resources Development Berrett – Kiehlker Publishers United States.
3. David McGuire (2022) Human Resource Development Sage Publications Ltd United Kingdom.
4. Derek Torrington D. (2024) Human Resource Development Pearson Publication United Kingdom.
5. Jon M. Werner (2022) Human Resource Development Cengage Publication United States.

WEB RESOURCE:

1. <https://www.scribd.com/document/578523191/FIRST-UNIT>
2. <https://www.scribd.com/document/91931773/Training-and-Development>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Explain the fundamentals of Human Resource Development, including recruitment, job evaluation, and organizational performance.	K1, K2
CO2	Analyze the processes of human resource planning, selection, and job analysis for efficient workforce management.	K3, K4
CO3	Evaluate training strategies, methods, and models to enhance employee productivity and organizational growth.	K4, K5
CO4	Assess various performance appraisal techniques and policies for employee career growth and workforce planning.	K4, K5
CO5	Examine HRD research studies, training program implementation, and evaluation techniques for improving training institutions.	K5
CO6	Design HR strategies and training models for effective human resource management and development.	K6

K1 - Remember, **K2** - Understand, **K3** - Apply, **K4** - Analyze, **K5** - Evaluate, **K6** - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	1	1	3
CO2	9	3	3	3	0	3
CO3	9	9	3	3	3	3
CO4	9	3	3	3	1	3
CO5	9	9	3	1	9	3
CO6	9	9	9	1	9	3
Weightage	54	36	22	12	23	18
Weighted percentage of course contribution to	32.73%	21.82%	13.33%	7.27%	13.94%	10.91%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes (Revised Bloom’s Taxonomy) and POs

CO / K - Level	mapped with knowledge level Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO6	PO3	PO4,PO5
CO2 / K2	PO1	PO2,PO3,PO6	PO5	PO4
CO3 / K3	PO1,PO2	PO3,PO4,PO5,PO6	-	-
CO4 / K4	PO1	PO3,PO4,PO6	PO5	-
CO5 / K5	PO1,PO2,PO5	PO3,PO4,PO6	-	-
CO6 / K6	PO1,PO2,PO3,PO5	PO4,PO6	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **HUMAN RESOURCE DEVELOPMENT** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	II	P25EC10E3	ELECTIVE III	MANAGEMENT INFORMATION SYSTEM	LECTURE	6	4

COURSE DESCRIPTION:

This course provides an in-depth understanding of Management Information Systems (MIS), covering its components, role in business strategy, database management, ERP integration, and emerging trends like AI, cloud computing, and big data. It emphasizes MIS's strategic importance in decision-making and organizational performance.

COURSE OBJECTIVES:

- ✚ To understand the basic concepts of Management Information Systems
- ✚ To evaluate how MIS contributes to decision-making and competitive advantage.
- ✚ To effective management of organizational data within an MIS framework.
- ✚ To evaluate the impact of ERP systems.
- ✚ To examine emerging trends in technology.

UNIT- I: INTRODUCTION TO MIS (18 HOURS)

Definition, need, and role of MIS in organization - Components of MIS: hardware, software, people, data, and procedures - Types of MIS: Transaction Processing System (TPS) - Decision Support System (DSS), and Executive Information System (EIS) - Evolution of MIS and its strategic importance in business operations.

UNIT- II: INFORMATION SYSTEMS AND BUSINESS STRATEGY (18 HOURS)

Business strategy and its alignment with information systems - Competitive advantage through information systems - Porter's Competitive Forces Model and its application in MIS - Role of MIS in decision-making and business process reengineering.

UNIT - III: DATABASE MANAGEMENT SYSTEMS IN MIS (18 HOURS)

Introduction to Database Management Systems (DBMS) - Data models: Hierarchical, Network, Relational, and Object-Oriented - Database design and its role in MIS - Data security, integrity, and privacy concerns in database management.

UNIT- IV: ENTERPRISE RESOURCE PLANNING (ERP) AND MIS (18 HOURS)

Definition and components of ERP systems - Role of ERP in integrating business processes - Benefits and challenges of implementing ERP in organizations - Relationship between ERP systems and MIS in organizational performance.

UNIT - V: EMERGING TRENDS IN MIS (18 HOURS)

Impact of Artificial Intelligence (AI) and Machine Learning (ML) on MIS - Role of Cloud Computing in business information systems - Big Data and its influence on decision-making - Future trends in MIS and the evolving role of information technology in business.

TEXT BOOKS:

1. Raja Gopalan, S.P. (2018), Management Information Systems, Sultan Chand & Company, New Delhi. **(Unit: I – V, Call No. 380.0 RAJS – 22015497).**
2. Behl, Ramesh (2012). Information Systems for Managers. McGraw Hill Education, New Delhi.

REFERENCE BOOKS:

1. McLeod, Raymond, & Schell, Jr., George P. (2008). Management Information Systems. Pearson Education, New Delhi.
2. Davis, Gordon B. (1984). Management Information Systems. McGraw-Hill Publishing, New York.
3. O'Brien, James A., Marakas, George M., & Behl, Ramesh. (2019). Management Information Systems (11th Edition). McGraw-Hill Education, New Delhi.
4. Rajaraman, V. (2004). Fundamentals of Computers (4th Edition). Prentice-Hall of India, New Delhi.
5. Goel, Ritendra, & Kakkar, D.N. (2004). Computer Applications in Management. New Age International Publishers, New Delhi.

WEB RESOURCE:

1. https://portal.abuad.edu.ng/lecturer/documents/1584984045MIS_LECTURE_NOTE_1.pdf?utm_source=chatgpt.com
2. https://openstax.org/books/foundations-information-systems/pages/1-1-introduction-to-information-systems?utm_source=chatgpt.com

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Understand the fundamental concepts, components, and types of Management Information Systems (MIS), and evaluate their roles in organizational effectiveness.	K1, K2
CO2	Analyze the alignment between business strategies and information systems, and apply strategic models such as Porter's Competitive Forces to enhance business competitiveness.	K3, K4
CO3	Demonstrate knowledge of Database Management Systems (DBMS), including data models and design, and assess their significance in maintaining data integrity and security in MIS.	K4, K5
CO4	Evaluate the role of Enterprise Resource Planning (ERP) systems in integrating and streamlining business processes, and their impact on organizational performance.	K4, K5
CO5	Examine the influence of emerging technologies such as AI, ML, Big Data, and Cloud Computing on the development and future direction of MIS.	K5
CO6	Apply MIS knowledge to support business decision-making, improve operational efficiency, and contribute to strategic planning and innovation.	K6

K1 - Remember, **K2** - Understand, **K3** - Apply, **K4** - Analyze, **K5** - Evaluate, **K6** - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	0	1	3
CO2	9	3	3	0	3	9
CO3	9	9	3	3	3	9
CO4	3	9	3	3	9	3
CO5	3	3	9	9	9	3
CO6	9	9	9	3	9	9
Weightage	42	36	30	18	34	36
Weighted percentage of course contribution to	21.43%	18.37%	15.31%	9.18%	17.35%	18.37%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2,PO3,PO6	PO5	PO4
CO2 / K2	PO1,PO6	PO2,PO3,PO5	-	PO4
CO3 / K3	PO1,PO2,PO6	PO3,PO4,PO5	-	-
CO4 / K4	PO2,PO5	PO1,PO3,PO4,PO6	-	-
CO5 / K5	PO3,PO4,PO5	PO1,PO2,PO6	-	-
CO6 / K6	PO1,PO2,PO3,PO5,PO6	PO4	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **MANAGEMENT INFORMATION SYSTEM** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

SEMESTER - III

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC11	CORE VIII	RESEARCH METHODOLOGY	LECTURE	6	4

COURSE DESCRIPTION:

This course introduces research methods, focusing on problem formulation, data collection, and analysis techniques. It covers the importance of sampling, hypothesis testing, and report writing with a focus on effective presentation and citation.

COURSE OBJECTIVES:

- ✚ To enable the students understand the importance of research in creating and extending the knowledge based in the Research area.
- ✚ To impart skills work in dependently, to plan and carry out the research project.
- ✚ To enhance students' ability to critically analyze and interpret research findings.
- ✚ To develop ethical considerations and integrity in conducting research.
- ✚ To train students in effectively communicating research findings through structured reports and presentations.

UNIT - I: INTRODUCTION TO RESEARCH

(18 HOURS)

Nature of Social Science Research – Research Methods in Social Science – Formulating the problem- Types and Sources of Hypothesis – Characteristics of a Good hypothesis- Components and types of research design.

UNIT - II: RESEARCH HYPOTHESIS

(18 HOURS)

Meaning – Origin of Hypothesis – Nature and Functions of Hypothesis – Sources of Hypothesis – Types of Hypothesis – Formulation of Hypothesis – Problems in Formulating Hypothesis – Criteria for Judging Hypothesis – Verification of Hypothesis – Proof of Hypothesis – Role of Hypothesis in Social Science Research.

UNIT - III: SCIENTIFIC METHODS OF RESEARCH

(18 HOURS)

Scientific Method: Definition - Assumptions, characteristics and components of Scientific Method –Steps in Scientific Method – Problems and difficulties of Scientific Method - Essentials of Good Scientific Method; Historical Research – Necessary conditions for Historical Research; Case study Method – Characteristics of Case study Method.

UNIT - IV: DATA COLLECTION

(18 HOURS)

Collection of data – sources and methods - Secondary Data: Key Sources – NSSO, CSO, Economic Survey – Primary Data Collection - Sampling – Need & types – Questionnaire - Schedule and Guidelines for Constructing a Questionnaire – Tools - Preparing a Master Table – Data Processing - Analytical Tables and using SPSS.

UNIT - V: REPORT WRITING**(18 HOURS)**

Meaning and purpose of research report– Structure of research report, General Format, and Style - format of research report - Planning of the report – Use of Footnotes and Citations – Presentation Techniques: Tables, Diagrams, Charts, and Maps – Compilation of Bibliography - Evaluation of Report - Research Ethics – Plagiarism - Preparation of Project Proposals.

TEXT BOOKS:

1. Kothari,C.R..(2023), Research Methodology: Method sand Technique New Age international Publishers, New Delhi. **(Unit: I – V, Call No. 380.9, KOT.C1)**
2. Ghosh B.N.(1992),Scientific Method and Social Research, Sterling Publishers, New Delhi. **(Unit: I – V, Call No. 380.9, GHO.B)**

REFERENCE MATERIALS:

1. Bhattacharyya, D. K. (2015). Research Methodology. Excel Books, New Delhi.
2. Krishnaswamy, O. R., & Ranganathan, M. (2011). Methodology of Research in Social Sciences. Himalaya Publishing House.
3. Bryman, Alan (2008), Social research methods, 4th Edition, Oxford University Press.
4. Goode,W.J.& Hatt,P.K (1952), Methods in Social Research, Mc Graw Hill, New York.
5. Kenneth. D, and Bailey (1962), Methods of Social Research, Longman’s Green Co, New York.

WEB RESOURCE:

1. <https://dspace.unitywomenscollege.ac.in/bitstream/123456789/163/1/Research%20Methodology%20C%20R%20Kothari.pdf>
2. <https://www.euacademic.org/BookUpload/9.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Define research and Explain the characteristics	K1, K2
CO2	Identify the issues in Research Design and Sampling Procedures	K3, K4
CO3	Formulation of a Research problem & hypothesis	K4, K5
CO4	Identify the sources and methods of data collection.	K4, K5
CO5	Develop Report Writing Skill.	K5
CO6:	Apply statistical and analytical tools for data interpretation and decision-making.	K6

K1- Remember; **K2-** Understanding; **K3** –Apply; **K4-** Analyze; **K5-** Evaluate; **K6** - Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	1	3
CO2	9	9	3	1	3	3
CO3	9	9	9	3	3	3
CO4	3	9	9	9	3	9
CO5	3	3	3	9	9	3
CO6	3	3	3	3	9	9
Weightage	36	36	30	26	28	30
Weighted percentage of course contribution to	19.35%	19.35%	16.13%	13.98%	15.06%	16.13%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3, PO6	PO4, PO5	--
CO2 / K2	PO1, PO2	PO3, PO5, PO6	PO4	--
CO3 / K3	PO1, PO2, PO3	PO4, PO5, PO6	--	--
CO4 / K4	PO2, PO3, PO4, PO6	PO1, PO5	--	--
CO5 / K5	PO4, PO5	PO1, PO2, PO3, PO6	--	--
CO6 / K6	PO5, PO6	PO1, PO2, PO3, PO4	--	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **RESEARCH METHODOLOGY** course in the **M.A.**, Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC12	CORE V	ECONOMETRICS	LECTURE	6	4

COURSE DESCRIPTION:

This course provides a comprehensive understanding of econometrics, covering its nature, scope, and methodologies. It explores linear and multiple regression models, assumptions, and estimation techniques. The course also examines issues like multicollinearity, heteroscedasticity, and autocorrelation, along with dummy variable regression, binary choice models, and forecasting techniques used in economic analysis.

COURSE OBJECTIVES:

- ✚ To understand the meaning, scope, and limitations of econometrics and its methodological framework.
- ✚ To apply the Ordinary Least Squares (OLS) method for estimating linear regression models and testing significance.
- ✚ To analyze multiple regression models, interpret coefficients, and evaluate regression accuracy.
- ✚ To identify and address violations of classical regression assumptions, such as multicollinearity, autocorrelation, and heteroscedasticity.
- ✚ To explore the application of dummy variables, binary choice models, and forecasting techniques in econometric analysis.

UNIT – I: NATURE AND SCOPE OF ECONOMETRICS (18 HOURS)

Nature and Scope of Econometrics: Meaning, Scope, and Limitations – Division in Econometrics – Methodology of econometrics - Types of data: Time series, Cross section and panel data.

UNIT – II: THE LINEAR REGRESSION MODEL (18 HOURS)

Origin and Modern interpretation - Significance of Stochastic Disturbance term Population Regression Function and Sample Regression Function-Assumptions of Classical Linear Regression model-Estimation of linear Regression Model: Method of Ordinary Least Squares (OLS)- Test of Significance of Regression coefficients: T-test Coefficient of Determination.

UNIT – III: MULTI-REGRESSION ANALYSIS (18 HOURS)

Multiple Regression Analysis: The problem of estimation – notation and assumptions – meaning of partial regression coefficients the multiple coefficient of determination – R^2 and the multiple coefficient of correlation R – R Square and adjusted R Square – interpretation of multiple regression equation. **(Simple Problem Only)**

UNIT – IV: CLASSICAL REGRESSION MODEL (18 HOURS)

Multicollinearity: Definition – Consequences – Autocorrelation: Definition – Consequences – Remedial Measures Detection – Heteroscedasticity – Meaning – Consequences – Remedies.

UNIT – V: DUMMY VARIABLES AND FORECASTING**(18 HOURS)**

The Nature of Dummy Variables – Regression on One Quantitative Variable and One Qualitative Variable With More Than Two Classes – Binary Choice model –LPM, Probit and Logit Model - Time series analysis – Durbin Watson Test – Forecasting – Meaning – Problems in Forecasting – ARIMA Model – Experimental methods in Economics. **(Simple Problem Only)**

TEXT BOOKS

- Gujarathi, D.N. (2005), Text Book of Econometrics [McGraw-Hill, New Delhi].
(Unit – I, II, III, IV, V. No. 330.9)
- Koutsiyannis, A. (2002), Theory of Econometrics [MacMillan, London.

REFERENCE BOOKS:

- Madnani, G.M.K. (2006), Introduction to Econometrics [Oxford IBH Pub. Co., New Delhi.
- Singh, S.P., Parashar, K and Singh, H.P., (1981), Econometrics, S.Chand & Co, New Delhi.
- William H. Greene, (1993), Econometric Analysis, Prentice Hall, New Hersey.
- Salvatore, Dominick, (2001) Statistics and Econometrics, Schaum Series.
- Johnston, J. (1991), Econometric Methods [McGraw-Hill, New York.

WEB RESOURCE:

- https://cbpbu.ac.in/userfiles/file/2020/STUDY_MAT/ECO/2.pdf
- <https://perhuaman.wordpress.com/wp-content/uploads/2014/06/econometrics-bruce-hansen-2014.pdf>

75% Theory and 25% Problem**COURSE OUTCOMES:**

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Define the nature, scope, and methodology of econometrics, along with the types of economic data used.	K1, K2
CO2	Apply Ordinary Least Squares (OLS) to estimate linear regression models and interpret regression coefficients.	K2, K3
CO3	Analyze multiple regression models, interpret R ² and adjusted R ² values, and evaluate model significance.	K3, K4
CO4	Identify econometric problems like multicollinearity, heteroscedasticity, and autocorrelation, and apply remedial measures.	K4, K5
CO5	Examine the role of dummy variables and binary choice models (LPM, Probit, Logit) in regression analysis.	K5
CO6	Develop forecasting models using ARIMA and other time series techniques for economic data predictions.	K6

K1- Remember; **K2-** Understanding; **K3 –**Apply; **K4-** Analyze; **K5-** Evaluate; **K6 -** Creative

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	9	1	3	3
CO2	3	9	3	9	3	9
CO3	9	3	9	3	9	1
CO4	1	9	3	9	3	9
CO5	3	9	1	9	9	3
CO6	3	9	3	1	9	9
Weightage	28	42	28	32	36	34
Weighted percentage of course contribution to	14%	21%	14%	16%	18%	17%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO3	PO2, PO5, PO6	PO4	--
CO2 / K2	PO2, PO4, PO6	PO1, PO3, PO5	---	--
CO3 / K3	PO1, PO3, PO5	PO2, PO4	PO6	--
CO4 / K4	PO2, PO4, PO6	PO3, PO5	PO1	--
CO5 / K5	PO2, PO4, PO5	PO1, PO6	PO3	--
CO6 / K6	PO2, PO5, PO6	PO1, PO3	PO4	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **ECONOMETRICS** course in the **M.A.,** Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC13	CORE X	INDUSTRIAL ECONOMICS	LECTURE	6	5

COURSE DESCRIPTION:

This course studies the structure, behaviour, and performance of firms and industries. The course focuses on market competition, regulatory policies, and strategic decision-making in industrial markets.

COURSE OBJECTIVES:

- ✚ To understand the scope and role of industrial economics in economic development.
- ✚ To evaluate industrial location trends, with a focus on Indian industrial patterns.
- ✚ To learn the scope and significance of industrial productivity in economic growth.
- ✚ To analyze the evolution of industrial policies from 1948 to the LPG reforms of 1991.
- ✚ To analyze policy measures for addressing industrial and regional disparities.

UNIT - I: INDUSTRIAL EFFICIENCY

(18 HOURS)

The scope of Industrial economics - The role of industry in economic development- Industrial efficiency- determinants of economic efficiency-measurement of efficiency levels- Types of organizational Firm - Business motives- Industrial theories: Hoffman, Chennery and Greshenkron.

UNIT – II: INDUSTRIAL LOCATION

(18 HOURS)

Industrial location- Determinants of Industrial Location - factors affecting location- The economic theories of Location-Weber’s theory of location- Sargent Florence theory -Losch theory – Profit Maximizing Theory - Industrial location trends in India.

UNIT – III: INDUSTRIAL PRODUCTIVITY

(18 HOURS)

Industrial productivity- Scope and significance - Factors influencing industrial productivity - Measurement of Productivity - Labour productivity- Tools of labour productivity - determinants of labour productivity.

UNIT – IV: INDUSTRIAL POLICIES

(18 HOURS)

Industrial policies - 1948 to 1990 - LPG Policies - Industrial Concentration -Industrial combination-Types-Growth-Forms-Combination in India – Industrial sickness –causes and consequences.

UNIT – V: REGIONAL DEVELOPMENT

(18 HOURS)

Balanced regional development-Indicators of regional imbalance- Causes of economic backwardness-Criteria for industrial backwardness-Identification of Industrial backward areas Policy measures to remove regional disparities.

TEXT BOOKS:

1. Hay. D, and D.J.Morris (1979) Industrial Economics: Theory and Evidence. Oxford University Press, New Delhi. (Unit – I, II, III, IV, V. No. 331.3)
2. Cherunilam F (1994) Industrial Economics: Indian perspective Himalaya Publishing House, Mumbai.

REFERENCE BOOK:

1. Ahluwalia, I.J (1985), Industrial Growth in India, Oxford University press, New Delhi.
2. Barthwal.R.R (2006) Industrial Economics, New Age International Publishers, New Delhi.
3. R. R. Bharthwal, Industrial Economics: An Introductory text book, New Age International Publishing.
4. Sivayya,K.V.&V.B.M.Das, Indian Industrial Economy, S. Chand & Co Publication, New Delhi
5. Donald A.Hay& Derek J.Morris, Industrial Economics : Theory and Evidence - Oxford Press.

WEB RESOURCE:

1. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://sde.uoc.ac.in/sites/default/files/sde_videos/Industrial%20Economics_0.pdf
2. <https://egyankosh.ac.in/handle/123456789/3349>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	To understand the scope of industrial economics and motives of the organizational firm.	K1, K2
CO2	To evaluate economic theories of location and their importance.	K2, K3
CO3	To investigate the scope and significance of industrial productivity.	K3, K4
CO4	To examine the concentration of economic power and the application of industrial policies.	K1, K4
CO5	To evaluate the industrial backwardness and regional disparities	K5
CO6	To explore the factors influencing industrial efficiency, location, and productivity, industrial policies and strategies to drive regional development and ensure sustainable economic progress.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6** - Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	9	1	9	1	9
CO2	1	9	0	9	9	3
CO3	9	3	9	9	9	1
CO4	9	9	3	9	1	9
CO5	9	9	1	3	9	9
CO6	9	9	9	3	9	9
Weightage	46	46	23	42	38	39
Weighted percentage of course contribution to	19.66%	19.66%	9.83%	17.95%	16.24%	16.67%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO2, PO4, PO6	-	PO3, PO5	-
CO2 / K2	PO2, PO4, PO5	PO6	PO1	PO3
CO3 / K3	PO1, PO3, PO4, PO5	PO2	PO6	-
CO4 / K4	PO1, PO2, PO4, PO6	PO3	PO5	-
CO5 / K5	PO1, PO2, PO5, PO6	PO4	PO3	-
CO6 / K6	PO1, PO2, PO3, PO5, PO6	PO4	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **INDUSTRIAL ECONOMICS** course in the **M.A.**, Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC14	CORE XI	AGRICULTURAL ECONOMICS	LECTURE	6	5

COURSE DESCRIPTION:

This course explores the nature, scope, and importance of agriculture in India, focusing on farm production economics, agricultural marketing, and finance. It also covers agricultural price policy, economic reforms, and the role of technology in agricultural development.

COURSE OBJECTIVES:

- ✚ To understand the nature, scope, and importance of agriculture in the Indian economy.
- ✚ To analyze the relationship between agricultural production, productivity, and farm size efficiency.
- ✚ To study agricultural marketing systems, inefficiencies, and rural labor challenges in India.
- ✚ To explore the sources, types, and problems related to agricultural finance and rural credit.
- ✚ To evaluate the objectives and impact of agricultural price policies and their relevance in economic reforms.

UNIT - I: INTRODUCTION

(18 HOURS)

Nature and scope of Agriculture – Importance – Features - Role of Agriculture in Indian Economy – Agriculture and Industry – A Comparison- Role of Agriculture in Economic Development.

UNIT - II: AGRICULTURAL PRODUCTION AND PRODUCTIVITY

(18 HOURS)

Production Function Analysis - Relevance to Farm Production Economics- Productivity Trends; Low production and Productivity: Causes, Consequences and Measures- Farm Size - Efficiency relations in Indian agriculture - A.K. Sen's Hypothesis- Role of Technology in Agriculture - Structural Changes in Agriculture.

UNIT - III: AGRICULTURAL MARKETING& LABOUR

(18 HOURS)

Meaning –Features of Agricultural Marketing in India - Causes for in efficiency of Agricultural Marketing in India – Defects - Regulated Markets – Co-Operative Marketing – Warehousing in India -Agricultural Labour: Types – Supply of Labour – Problems- Rural Unemployment: Types, consequences and remedial measures- Poverty Eradication programmes.

UNIT - IV: AGRICULTURAL FINANCE

(18 HOURS)

Agricultural Finance: Meaning, Nature, Types, Sources and Problems of Agricultural Finance- Co-operatives in Rural Finance- Role of Commercial Banks and NABARD in Rural Finance- Farm Capital - Meaning, Types, and Marginal Efficiency of Farm Capital and Capital formation in agriculture.

UNIT - V: AGRICULTURAL PRICE POLICY**(18 HOURS)**

Agricultural Price policy - Objectives, instruments and impact- Economic Reforms and Agricultural policy – WTO and Agriculture- Agricultural Taxation and its relevance – Evaluation of Governments Agricultural Price Policy.

TEXT BOOKS:

1. Sankaran.S. (2010) Indian Economy, Margham Publications, Chennai. **(Unit: I – V, Call No. 330.4 SAN.S2)**
2. Gupta P K (2009), Agricultural Economics, Rural development Vrinda Pulications (p) Ltd. **(Unit: I – V, Call No. 331.2)**

REFERENCE BOOKS:

1. Memoria,C.B&BadriBishaTripathi(2003),AgriculturalProblemsofIndia, KitabMahal, Agenices, Patna.
2. Deepashree,(2011),IndianEconomy,AneBooksPVTLtd,NewDelhi.
3. Sethuraman,K(2000), AgriculturalMarketing,MarghamPublications, Chennai.
4. Ruddar Datt and K.P.M. Sundharam (2001), Indian Economy, S.Chand and Ltd., RamNagar, New Delhi.
5. Dantwala M.L (ed) (1991), Indian Agricultural Development since Independence - Oxford and IBH Publishing company private limited, New Delhi.

WEB RESOURCE:

1. <https://egyankosh.ac.in/bitstream/123456789/62782/1/Block-2.pdf>
2. <https://gacbe.ac.in/pdf/ematerial/18MEC44E-U4.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Understand the nature, scope, and importance of agriculture in the Indian economy.	K1, K2
CO2	Analyze agricultural production, productivity trends, and the role of technology in enhancing farm productivity.	K3, K4
CO3	Explore agricultural marketing, its inefficiencies, and the role of cooperatives and regulated markets.	K4, K5
CO4	Examine the challenges of agricultural labor, rural unemployment, and poverty eradication programs.	K4, K5
CO5	Study agricultural finance, its sources, and the role of cooperatives, commercial banks, and NABARD.	K5
CO6	Evaluate the objectives, instruments, and impacts of agricultural price policies and reforms.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** – Evaluate; **K6** – Create

COs Consistency with POs: Articulation Matrix

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	3	3	9
CO2	9	9	3	3	9	0
CO3	9	9	3	9	3	9
CO4	3	3	9	3	0	3
CO5	9	9	3	3	9	9
Weightage	39	33	19	21	24	30
Weighted percentage of course contribution to	23.49%	19.88%	11.45%	12.65%	14.46%	18.07%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K – Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO6	PO2, PO4, PO5	PO3	-
CO2 / K2	PO1,PO2, PO5	PO3,PO4	-	PO6
CO3 / K3	PO1,PO2,PO4, PO6	PO3,PO5	-	-
CO4 / K4	PO3	PO1,PO2, ,PO4, PO6	-	,PO5
CO5 / K5	PO1, PO2,,PO5,PO6	PO3,PO4	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The Cos and Pos for the AGRICULTURAL ECONOMICS course in the M.A., Degree Programme is effectively matched by the course in-charge

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC15E1	ELECTIVE IV	COMPUTER APPLICATIONS IN ECONOMICS	LECTURE	6	4

COURSE DESCRIPTION:

This course provides a comprehensive introduction to computers, covering fundamental concepts of hardware, software, operating systems, MS Word, MS Excel, and Internet usage. It equips students with essential skills for practical applications in economics, business, and everyday digital tasks.

COURSE OBJECTIVES:

- ✚ To provide students with a foundational understanding of computers, their components, and their various uses.
- ✚ To familiarize students with different types of operating systems and their functionalities.
- ✚ To develop basic skills in Microsoft Word for document creation and editing.
- ✚ To equip students with essential skills in Microsoft Excel for data organization, analysis, and presentation.
- ✚ To introduce students to the internet, including browsing, email, and online communication tools.

UNIT I: INTRODUCTION TO COMPUTER (18 HOURS)

Meaning – Characteristics – Generation of Computers – Area of Computers - classification of computers– Hardware and Software – CPU and its functions – Input and Output devices – Applications of computers in Economics and Business.

UNIT II: CONCEPTS OF OPERATING SYSTEM (18 HOURS)

Introduction to Operating Systems - Evolution of OS – Classification of Operating System– Functions - Simple DOS Commands – Fundamentals of Windows Operating System.

UNIT III: INTRODUCTION TO WORD (18 HOURS)

Meaning and Features MS word – Creating and Editing Documents – Inserting Objects - Formatting Document - Working with Headers, Footers and Footnotes – Tabs, tables and Sorting – Working with Graphics and illustrations – Templates, Wizards, and Macros – Mail Merge.

UNIT IV: MS EXCEL FOR ECONOMIC ANALYSIS (18 HOURS)

Spreadsheets and Applications – Features of Excel - Basic functions: Worksheets, Cells, Rows, Columns - formatting, and editing data. - Sorting and filtering data. Formulas and Functions - Graphical Representation of Data - Pivot Tables and Pivot Charts - Macros and Automation - Case Studies and Applications: Economic forecasting and trend analysis using Excel - Time series analysis.

UNIT V: INTERNET

(18 HOURS)

Meaning – Uses of the Internet - World Wide Web – Video Conferencing and Collaboration Tools – Connection to the Internet – Browsing and Search Engines – Creating Email ID, sending and receiving messages - Downloading and Internet Safety.

TEXT BOOKS:

1. Dhanasekaran K (2010), Computer Application in Economics, Vrinda Publications (P) Ltd., Delhi, (Unit: I & II, Call NO. 380.0 DHA.K - 33012555)
2. Rizwan Ahamed P (2017), Computer Applications in Business Tally ERP 9, Margham Publications, Chennai. (Unit: II, III, IV & V, Call No. 380.0 AHM – 00063067).

REFERENCE BOOKS:

1. Lal G (2005), Computer Applications in Business, G.Lal& Company, Delhi.
2. Malhotra T D (2013), Computer Applications in Business, Kalyani Publishers, Chennai.
3. Mishra, S. (2020). Computer fundamentals: Theory and applications. New Age International Publishers, New Delhi Lipschutz, M.M. and S. Lipschultz (1982), Theory and Problems of Data Processing, Schaums Outline Series, McGraw Hill, New Delhi.
4. Rama, S., & Soni, P. (2019). Introduction to computer science and applications. New Age International Publishers. New Delhi, India.

WEB RESOURCE:

1. <https://www.scribd.com/document/523475957/Computer-Application-in-Economics>
2. <https://dotnetinstitute.co.in/wp-content/uploads/2021/02/Complete-Notes-MS-Word-2020-21.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Recall and define the basic concepts, characteristics, and generation of computers.	K1, K2
CO2	Trace the evolution and classification of operating systems.	K3, K4
CO3	Apply the knowledge of hardware, software, and CPU functions.	K4, K5
CO4	Analyze the features of MS Word such as tables, sorting and diagram.	K4, K5
CO5	Evaluate the effectiveness of using Excel for database management and report generation.	K5
CO6	Create and manage emails, websites, and online communications for professional use.	K6

K1- Remember; K2- Understanding; K3 –Apply; K4- Analyze; K5- Evaluate; K6 - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	1	3
CO2	3	9	1	3	3	3
CO3	3	3	9	3	9	3
CO4	9	9	9	9	9	9
CO5	3	3	1	9	9	3
CO6	9	3	9	3	9	9
Weightage	36	30	32	28	40	30
Weighted percentage of course contribution to	18.37%	15.31%	16.33%	14.29%	20.41%	15.31%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3, PO6	PO4, PO5	--
CO2 / K2	PO2	PO1, PO4, PO5, PO6	PO3	--
CO3 / K3	PO3, PO5	PO1, PO2, PO4, PO6	--	--
CO4 / K4	PO1, PO2, PO3, PO4, PO5, PO6	--	--	--
CO5 / K5	PO4, PO5	PO1, PO2, PO6	PO3	--
CO6 / K6	PO1, PO3, PO5, PO6	PO2, PO4	--	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **COMPUTER APPLICATIONS IN ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HoD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC15E2	ELECTIVE IV	URBAN ECONOMICS	LECTURE	6	4

COURSE DESCRIPTION:

This course explores the fundamentals of urban economics, covering urbanization, migration theories, labor market dynamics, urban challenges, and urban planning. It examines the relationship between urbanization, economic growth, and globalization while analyzing policies and programs for sustainable urban development in India.

COURSE OBJECTIVES:

- ✚ To understand the definition, scope, and causes of urbanization and its impact on economic growth and globalization.
- ✚ To analyze rural-urban migration theories, informal sector contributions, and factors influencing migration.
- ✚ To examine the relationship between urbanization and labor markets, workforce participation, and the formal-informal economic divide.
- ✚ To evaluate urban challenges such as congestion, housing, pollution, and infrastructure needs while exploring urban planning strategies.
- ✚ To assess urban development policies and programs in India, including decentralization, smart cities, and housing initiatives.

UNIT - I INTRODUCTION TO URBAN ECONOMICS (18 HOURS)

Definition of Urban Economics – Scope of Urban Economics – causes of urbanization - 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.

UNIT - II RURAL-URBAN MIGRATION (18 HOURS)

Theories of Rural – Urban migration - Rosentein’s Law, Lewis-Fei Ranis Model, Lee’s Theory- Concept of informal sector and its role in economic development- Factors affecting migration-Economic Factors – Push and Pull factors Social and other factors.

UNIT - III URBANIZATION, WAGES & EMPLOYMENT (18 HOURS)

Urbanisation - Pull and Push Factors for Urbanisation in India – Wages: Meaning – Objectives - High Wages and Improved Infrastructure - Employment Opportunities and Educational facilities - Growth of formal and Informal economic activities -

UNIT - IV: URBAN PROBLEMS AND URBAN PLANNING (18 HOURS)

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

UNIT - V URBAN DEVELOPMENT POLICY IN INDIA**(18 HOURS)**

Policies and Programmes under the plans - Integrated Development of small and medium towns - Urban development and Housing Policy Measures to control urban growth - Decentralization industry - Growth Centres - Satellite towns.

TEXT BOOKS:

1. Sullivan (2012), Urban Economics, McGraw Hill Higher Education (Boston)
2. Shukla, V. (1996) Urbanization and Economic Growth, Himalaya Publishers Pvt. Ltd (New Delhi)

REFERENCE BOOKS:

1. Holger Seig (2020). Urban Economics and Fiscal Policy, Princeton University Press.
2. Robert L Bish and Hugh O Nourse (1975), Urban Economics and Policy Analysis, McGraw Hill Kogakusha Ltd (Tokyo)
3. Edwin S. Mills. (1987). Handbook on Regional and Urban Economics, Volume 2: Urban Economics. North-Holland (Amsterdam).
4. K.J. Button (1976). Urban Economics: Theory and Policy, India. ISBN-13 : 978-0333185957
5. Duranton, G., & Strange, W. C. (1986). Handbook of regional and urban economics: applied urban economics (Vol. 3). Elsevier.

WEB RESOURCE:

1. <https://g-city.sass.org.cn/upload/article/files/5c/58/87a4bbf6435e810695af7e0d0899/9b1494f4-1ef6-40a0-9d64-a55bb69ff5cc.pdf>
2. https://sde.uoc.ac.in/sites/default/files/sde_videos/SLM-Eco-%20URBAN%20ECONOMICS.pdf

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Define and explain the scope of urban economics and analyze the causes and effects of urbanization.	K1, K2
CO2	Apply migration theories to understand rural-urban migration patterns and assess the role of the informal sector.	K2, K3
CO3	Evaluate the influence of urbanization on labor markets, employment distribution, and workforce participation.	K3, K4
CO4	Analyze key urban challenges such as overpopulation, housing shortages, environmental issues, and infrastructure deficits.	K4, K5
CO5	Examine urban development policies and their impact on urban growth, including smart cities and satellite towns.	K5
CO6	Formulate strategies for sustainable urban planning and policy implementation to improve urban living conditions.	K6

K1- Remember ; K2- Understanding; K3 –Apply; K4- Analyze; K5- Evaluate; K6 - Creative

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	1	3	9	1	3
CO2	1	9	3	1	3	1
CO3	3	3	9	3	9	3
CO4	9	9	9	9	3	3
CO5	3	3	1	3	9	9
CO6	9	1	3	9	3	9
Weightage	34	26	28	34	28	28
Weighted percentage of course contribution to	19.10	14.61	15.73	19.10	15.73	15.73

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO4	PO3, PO6	PO2, PO5	--
CO2 / K2	PO2	PO3, PO5	PO1, PO4, PO6	--
CO3 / K3	PO3, PO5	PO1, PO2, PO4, PO6	---	--
CO4 / K4	PO1, PO2, PO3, PO4	PO5, PO6	---	--
CO5 / K5	PO5, PO6	PO1, PO2, PO4	PO3	--
CO6 / K6	PO1, PO4, PO6	PO3, PO5	PO2	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **URBAN ECONOMICS** course in the **M.A.**, Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	III	P25EC15E3	ELECTIVE IV	PROJECT APPRAISAL	LECTURE	6	4

COURSE DESCRIPTION:

This course explores the principles of capital investment, project analysis, selection, and management. It covers project appraisal techniques, network analysis (CPM & PERT), and organizational structures for effective project execution.

COURSE OBJECTIVES:

- ✚ To provide a comprehensive understanding of the principles of project appraisal and analysis.
- ✚ To enable students to evaluate project feasibility using market, technical, and financial analyses.
- ✚ To develop skills in selecting projects based on various evaluation techniques like NPV and IRR.
- ✚ To equip students with knowledge of project organization and control mechanisms.
- ✚ To familiarize students with risk assessment and mitigation strategies in project evaluation and management.

UNIT –I: INTRODUCTION OF PROJECT APPRAISAL (18 HOURS)

Introduction - Classification of Projects - Quantifiable and non-quantifiable projects - Sectoral Projects - Techno-economic Projects - Classification by Financial Institutions - Project Life Cycle - Project Appraisal -Meaning of Project Appraisal - Payback Period Technique

UNIT – II: PROJECT ANALYSIS (18 HOURS)

Market and Demand Analysis – Technical Analysis – Financial Analysis – Economic Viability – Technical Feasibility – Social Acceptability

UNIT – III: SELECTION OF PROJECT (18 HOURS)

Project cash flows – Appraisal criteria – Payback Period – Rate of Return – Discounted Cash Flow Methods – NPV, IRR – Calculation of IRR for two years and more

UNIT – IV: PROJECT MANAGEMENT (18 HOURS)

Introduction – Phases of Project Management – Critical Path Diagram - Rules for Network Construction – Critical Path Method (CPM) – Gantt Chart/Time Chart – Project Evaluation and Review Technique (PERT)

UNIT – V: PROJECT ORGANIZATION**(18 HOURS)**

Forms of Project Organization – Line, Staff and Matrix Organization – Project Planning – Project Control

TEXT BOOKS:

1. Gopalakrishnan, P., & Ramamoorthy, V. E. (2018). Project Management. Macmillan India.
2. Nagarajan, K. (2017). Project Management. New Age International Publishers.

REFERENCE BOOKS:

1. Pannerselvam R, (2006) Production and Operations Management, PHI, New Delhi.
2. Bhavesh M Patel,(2000) Project Management, Vikas Publishing House, New Delhi.
3. Prasanna Chandra, (1995) Projects: Planning, Analysis, Selection, Implementation, and Review, Tata Mc Graw Hill.
4. Margin E. and A. K. Sen, (1990) Guideline for Project Evaluation, UNIDO, New York.
5. Clark J C et al., (1985) Capital Budgeting: Planning and Control of Capital Expenditure, Prentice Hall.

WEB RESOURCE:

1. <https://gdcboysang.ac.in/About/droid/uploads/PAA-BBA5thSem.pdf>
2. https://www.ilo.org/sites/default/files/wcmsp5/groups/public/@ed_emp/@emp_ent/@coop/documents/instructionalmaterial/wcms_628550.pdf

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Understand the importance of capital expenditure and the challenges in project evaluation.	K1, K2
CO2	Conduct detailed market, technical, and financial analyses to assess project feasibility.	K3, K4
CO3	Apply appraisal techniques like NPV, IRR, and Payback Period for project selection.	K4, K5
CO4	Utilize project management tools for planning, scheduling, and monitoring projects effectively.	K4, K5
CO5	Implement effective project organization strategies and ensure project control throughout the lifecycle.	K5
CO6	Analyze project risks and develop risk mitigation strategies to enhance project success.	K6

K1- Remember; **K2-** Understanding; **K3** –Apply; **K4-** Analyze; **K5-** Evaluate; **K6** - Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	0	1	0
CO2	3	9	3	1	3	0
CO3	3	3	9	3	3	1
CO4	1	3	9	9	3	1
CO5	1	3	3	9	9	3
CO6	0	1	3	3	9	9
Weightage	17	22	30	25	28	14
Weighted percentage of course contribution to	12.5%	16.2%	22.1%	18.4%	20.5%	10.3%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3	PO5	PO4, PO6
CO2 / K2	PO2	PO1, PO3, PO5	PO4	PO6
CO3 / K3	PO3	PO1, PO2, PO4, PO5	PO6	--
CO4 / K4	PO3, PO4	PO2, PO5	PO1, PO6	--
CO5 / K5	PO4, PO5	PO2, PO3, PO6	PO1	--
CO6 / K6	PO5, PO6	PO3, PO4	PO2	PO1

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **PROJECT APPRAISAL** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

SEMESTER - IV

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	IV	P25EC16	CORE XII	WELFARE ECONOMICS	LECTURE	6	5

COURSE DESCRIPTION:

This course explores welfare economics, focusing on the analysis of utility, social welfare, and market efficiency. It examines Pareto optimality, social welfare functions, market failures, and the role of government in policy-making and addressing economic issues like inequality and environmental concerns.

COURSE OBJECTIVES:

- ✚ To provide an understanding of the fundamental principles and concepts of Welfare Economics.
- ✚ To analyze the conditions for Pareto efficiency and evaluate the criteria for welfare improvements.
- ✚ To examine the role of social welfare functions in decision-making and policy evaluation.
- ✚ To explore the causes and consequences of market failures and the role of government intervention.
- ✚ To apply Welfare Economics theories to real-world issues such as income inequality, environmental policies, and public goods.

UNIT -1: BASIC CONCEPTS

(18 HOURS)

Positive and normative economics, welfare economics as a normative study- Preference orderings- Utility function: properties of a utility function- Interpersonal comparisons of utility: degrees of interpersonal comparability.

UNIT - II: MEASUREMENT OF WELFARE

(18 HOURS)

Ordinal measure, merits and demerits of ordinal measure- Cardinal measure: interval scale and ratio scale Merits and demerits of cardinal measure- Hicks's four measures of consumers' surplus.

UNIT - III: DEFINITIONS OF WELFARE

(18 HOURS)

The preference definition of well-being- Utilitarian definition- Rawlsian welfare theory- Sen's capability approach.

UNIT – IV PARETO CRITERION AND COMPENSATION TESTS

(18 HOURS)

The Pareto principle and assumptions underlying pareto optimality- Conditions for Pareto optimality: efficiency in exchange, efficiency in production and efficiency in product-mix, Edgeworth Box Diagrams- The two fundamental theorems of welfare economics and Theory of second best- Compensation tests : a) the compensation criteria of Kaldor and Hicks ;b) Scitovsky paradox and Scitovsky double criterion; c) Little's criterion.

UNIT - V SOCIAL CHOICE

(18 HOURS)

Bergson-Samuelson social welfare function- Types of social welfare functions: utilitarian, egalitarian and Rawlsian SWFs- Arrow's impossibility, Resolving Arrow's paradox: single peaked preferences- Sen's "paretian liberal" theorem.

TEXT BOOKS:

1. Yew-Kwang Ng (2004) Welfare Economics: Towards a More Complete Analysis.
2. Per-Olov Johansson (1991) An Introduction to Modern Welfare Economics.

REFERENCE BOOKS

1. Binh Tran-Nam, Makoto Tawada, and Masayuki Okawa (2018) Recent Developments in Normative Trade Theory and Welfare Economics" edited.
2. Roger E. Backhouse, Bradley W. Bateman, Tamotsu Nishizawa, and D. Wade Hands, Publisher Cambridge University Press (2021) Welfare Theory, Public Action, and Ethical Values.
3. Andrew E. Clark and Claudia Senik (2014) Happiness and Economic Growth: Lessons from Developing Countries.
4. Atkinson, A. B. (2019) Measuring Poverty Around the World. Princeton University Press.
5. NG, Y.K. (2021) Welfare Economics: Introduction and Development of Basic Concepts. Palgrave Macmillan.

WEB RESOURCE:

1. <https://testbook.com/ugc-net-economics/welfare-economics>
2. <https://gewgandhinagar.com/econtent/document/1587637142unit%205%20core.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Demonstrate a clear understanding of the foundational principles of Welfare Economics and its significance in economic theory's.	K1, K2
CO2	Analyze the conditions for Pareto efficiency and the practical application of welfare criteria in resource allocation.	K1
CO3	Evaluate different types of social welfare functions and explain trade-offs between equity.	K3
CO4	Identify and assess the sources of market failure and propose suitable corrective measures using Welfare Economics principles.	K4
CO5	Apply Welfare Economics concepts to contemporary issues like environmental sustainability, income distribution, and public policy design.	K5
CO6	Critically assess the role of government intervention in promoting social welfare and economic justice.	K5, K6

K1- Remember K2- Understanding K3 -Apply K4- Analyze K5- Evaluate K6 - Create

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	3	1	0
CO2	9	9	3	3	3	1
CO3	9	3	3	3	3	3
CO4	9	9	9	9	3	1
CO5	9	9	9	9	9	1
CO6	9	9	9	9	9	9
Weightage	54	42	34	36	28	15
Weighted percentage of course contribution to	25.84%	20.10%	16.27%	17.22%	13.40%	7.18%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO4	PO3, PO5	PO6
CO2 / K2	PO1, PO2	PO3, PO4, PO5	PO6	--
CO3 / K3	PO1	PO2, PO3, PO4, PO5, PO6	--	--
CO4 / K4	PO1, PO2, PO3, PO4	PO5	PO6	--
CO5 / K5	PO1, PO2, PO3, PO4, PO5	-	PO6	--
CO6 / K6	PO1, PO2, PO3, PO4, PO5, PO6	-	--	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **WELFARE ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs/Week	Credits
ECOPG1960	IV	P25EC17	CORE XIII	ENVIRONMENTAL ECONOMICS	LECTURE	6	5

COURSE DESCRIPTIONS:

This course explores the interplay between economics and the environment, focusing on sustainable development, environmental quality, and policies. It covers environmental issues, the measurement of environmental values, the role of society in environmental conservation, and policy frameworks, equipping students to understand and address key environmental challenges.

COURSE OBJECTIVES:

- ✚ This subject outlines the basic concepts and issues in environmental economics, population and environment and agro-environment.
- ✚ To promote environmental justice and ensure that the costs and benefits of environmental policies are distributed fairly.
- ✚ To protect public health by reduce exposure to environmental pollutants and promoting clean air and water.
- ✚ To Promote international cooperation and agreements to address global environmental challenges
- ✚ To reduce pollution and minimize the negative impacts of economics activities on the environment.

UNIT - I: CONCEPTS OF ENVIRONMENT (18 HOURS)

Environment – Eco-system – Nexus between Economics and Environment – The principle of material balance – Private versus Social Cost – Entropy – Ecological balance – Sustainable development – Externalities.

UNIT - II: ENVIRONMENTAL ISSUES (18 HOURS)

Environmental quality – Non-marketed goods – Regulatory methods – Command and control method – Environmentalism – Trade-off between environmental protection and economic growth – Institutional approach to environmental problems – Environmental education.

UNIT - III: MEASUREMENT OF ENVIRONMENTAL VALUES (18 HOURS)

User values: option values and non-use values – Valuation methods: methods based on observed market behaviour, hedonic property values, and household production models (travel cost methods and household health production function) – Methods based on response to hypothetical markets, including contingent valuation methods.

UNIT - IV: ENVIRONMENT AND SOCIETY (18 HOURS)

Pollution and environment – Impact of population growth (trends, sex ratio, rural and urban) on the environment – Impacts on Human Health, Animals and Vegetation – Poverty and environment – Culture and environment – People’s participation in environmental movements.

UNIT - V: POLICY INITIATIVES AN ENVIRONMENTAL LAWS (18 HOURS)

Latest Environment Policy of India – Distributive Effects of Environment Policy – International Environmental Policies – Carbon Tax – Role of India in COP62 Summit.

TEXT BOOKS:

1. Jhingan, M.L. Chander K Sharma (2014). Environmental Economics: Theory Management and Policy, Vrindha Publications, New Delhi. (UNIT-I,IV,V,-NO-331.2)
2. Karpagam M (2017), Environmental Economics – Third Edition, Sterling Publication Pvt. Ltd, Noida. (UNIT-I,II,III, NO-331.2)

REFERENCE BOOKS:

1. Wolfgsng Buchholz Christiane Reif, Dirk Rubbelke (2024) Springer Publicationpn Germany.
2. Hans Wiesmeth (2022) Environmental Economics Springer PublicationGermany.
3. Barry C. Field and Martha K. Field(2025) "Environmental Economics: An Introduction" McGraw-Hill Education New York City, New York, U.S.
4. Tom Tietenberg and Lynne Lewis(2025)" "Environmental Economics: The Essentials" Colorado State University Maine, USA..
5. J. Thampapillai and Matthias Ruth (2025)"Environmental Economics" Routledge; India

WEB RESOURCE:

1. [https://fcom.stafpu.bu.edu.eg/Economy/3898/crs-15010/Files/environmental and natural resource economics by tom tietenberg 9th edition.pdf](https://fcom.stafpu.bu.edu.eg/Economy/3898/crs-15010/Files/environmental%20and%20natural%20resource%20economics%20by%20tom%20tietenberg%209th%20edition.pdf)
2. <https://www.saskoer.ca/soc111/chapter/module-12-population-and-demography/>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Explain the fundamental concepts of the environment, eco-systems, and the principles of material balance and externalities.	K1, K2
CO2	Analyze the environmental issues and assess the trade-offs between environmental protection and economic growth.	K3, K4
CO3	Evaluate the methods of measuring environmental values, including market-based and hypothetical market techniques.	K4, K5
CO4	Assess the role of societal factors such as population growth, urbanization, and poverty in shaping environmental outcomes.	K4, K5
CO5	Analyze environmental policies, regulations, and their effectiveness in addressing current environmental challenges.	K5
CO6	Develop recommendations for effective environmental management strategies and policy interventions for sustainable development.	K6

K1 - Remember, K2 - Understand, K3 - Apply, K4 - Analyze, K5 - Evaluate, K6 - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	1	1	1	3
CO2	9	3	3	3	0	3
CO3	9	9	3	3	3	3
CO4	9	3	3	3	1	3
CO5	9	9	3	1	9	3
CO6	9	9	9	1	9	3
Weightage	54	36	22	12	23	18
Weighted percentage of course contribution to	32.73%	21.82%	13.33%	7.2%	13.94%	10.91%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO6	PO5	PO4, PO5
CO2 / K2	PO1	PO2, PO3, PO6	PO5	PO4
CO3 / K3	PO1, PO2	PO3, PO4, PO5, PO6	-	-
CO4 / K4	PO1	PO3, PO4, PO6	PO5	-
CO5 / K5	PO1, PO2, PO5	PO5	-	-
CO6 / K6	PO1, PO2, PO3, PO4, PO6	PO4, PO6	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **ENVIRONMENTAL ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs	Credits
ECOPG1960	II	P25EC18	CORE XIV	INTERNATIONAL ECONOMICS	LECTURE	6	5

COURSE DESCRIPTIONS:

This course provides a comprehensive understanding of international economics, covering theories of international trade, exchange rates, international monetary systems, and the role of international organizations like the WTO, IMF, and ADB. It explores global financial crises, international liquidity, and regional cooperation initiatives like BRICS and SAARC, with a focus on India's economic integration.

COURSE OBJECTIVES:

- Basically, aspires to offer conceptual framework on international trade.
- The role of various international organisations and agreements is discussed for better.
- To understanding of balanced and smooth functioning of the trade.
- To teach about the features, balance of payments and foreign exchange of International trade.
- To basically aspires to offer conceptual framework on international trade. The role of various international organisations and agreements is discussed.

UNIT - I: INTRODUCTION AND THEORIES

(18 HOURS)

International Economics – Scope - International Trade- importance -arguments for and against - Factor Price Equalization Theorem - International Product Life Cycle Theory – Classical Theory: Adam Smith and David Ricardo – Opportunity Cost Theory – Modern Theory of Factor Endowments.

UNIT - II: MEASURING THE GAINS OF TRADE

(18 HOURS)

Concepts of terms of trade - unfavourable trend in terms of trade for developing countries– Partial and General Equilibrium Analyses. Effects of tariffs under partial equilibrium – Quotas: Objectives – Types – Effects – Dumping – Kinds – Effects – Anti-Dumping Measures.

UNIT - III: BALANCE OF PAYMENT

Balance of Trade - Balance of Payments – Structure - Components – Measuring Deficit or Surplus – Importance – Balance of Payment Disequilibrium – Types of Disequilibrium – Causes – Methods of Correcting BOP Disequilibrium - Process of Adjustment through Exchange Rate Depreciation – Devaluation and BOP Adjustment - J-Curve Effect.

UNIT - IV: INTERNATIONAL MONETARY SYSTEM

Bretton Woods Monetary System- Emergence and Collapse. – Causes for Dollar Crisis of 1971 - The Floating Currencies – Devaluation of Indian Rupee – Euro – Dollar Market – Meaning – Growth – Features – Functions – Role – Euro-Currency Market and Developing Countries.

UNIT - V: INTERNATIONAL INSTITUTIONS

(18 HOURS)

IMF, IBRD, UNCTAD and WTO – Origin, Objectives, Functions and Organizational Structure - Developments in Foreign Exchange Markets, and International Debt Crisis - Trade Blocks: SAARC, ASEAN, BRICS and European Union.

TEXT BOOKS:

1. Jhingan, M.L. (2011). International Economics, Vrindha Publications Pvt. Ltd, New Delhi. (UNIT- I, II, III, IV, V, -NO-330.6)
2. Thomas Pugel, (2024) International Economics, Publications McGraw-Hill's U.S.A.

REFERENCE BOOKS:

1. Sankaran, S. (2016). International Economics, Margham Publications, Chennai.
2. James Gerber, (2024) International Economics Publications San Diego State University U.S.A.
3. Robert Carbaugh, (2024) International Economics Publications McGraw-Hill's U.S.A.
4. James Gerber, (2024) "International Economics". Pearson education limited London
5. Annual Reports (2024) IMF.

WEB RESOURCE:

1. <https://pmc.ncbi.nlm.nih.gov/artic>
2. <https://www.ncbi.nlm.nih.gov/books/NBK436886/>
<https://mu.ac.in/wp-content/uploads/2025/06/M.A.-Sem-II-International-Trade-Theory-and-Policy-English-1.pdf>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (COs)	KNOWLEDGE LEVEL
CO1	Understand the theories of international trade, including the Heckscher-Ohlin model and factor movement theory, and evaluate their empirical evidence.	K1, K2
CO2	Analyze the process of exchange rate determination and the effects of tariffs and quotas in international trade.	K3, K4
CO3	Assess the role and impact of international agencies like ADB and IDA on global economic stability and debt crises.	K4, K5
CO4	Examine India's relationship with the IMF, including BOP crises and the implications of Foreign Direct Investment.	K4, K5
CO5	Evaluate the functioning of international financial systems, including Euro Currency, BRICS, and IBRD, and their impact on global economic cooperation.	K5
CO6	Propose solutions to global economic issues like currency crises, liquidity shortages, and regional economic cooperation based on the understanding of international economics.	K6

K1 - Remember, K2 - Understand, K3 - Apply, K4 - Analyze, K5 - Evaluate, K6 - Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	1	3	3
CO2	3	9	9	3	3	3
CO3	3	9	9	3	3	1
CO4	3	9	9	3	3	1
CO5	3	9	9	9	3	3
CO6	9	9	9	3	1	9
Weightage	24	48	48	22	16	20
Weighted percentage of course contribution to	13.48%	26.96%	27.27%	12.50%	10.46%	10.46%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K – Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3, PO6	PO4, PO5	-
CO2 / K2	PO2, PO3	PO1, PO4, PO6	PO5	-
CO3 / K3	PO2, PO3	PO1, PO4	PO5, PO6	-
CO4 / K4	PO2, PO3	PO1, PO4, PO6	PO4	-
CO5 / K5	PO2, PO3, PO4	PO1, PO5, PO6	-	-
CO6 / K6	PO1, PO2, PO3, PO6	PO4, PO5	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **INTERNATIONAL ECONOMICS** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	IV	P25EC19E1	ELECTIVE V	ENTREPRENEURIAL DEVELOPMENT	LECTURE	6	4

COURSE DESCRIPTION:

This course explores the fundamentals of entrepreneurship, covering types, traits, and barriers, along with entrepreneurial growth, project identification, financial planning, and development agencies.

COURSE OBJECTIVES:

- ✚ To introduce the concept of entrepreneurship, its types, traits, and the factors promoting or hindering entrepreneurship.
- ✚ To analyze the role of government and other factors in entrepreneurial growth and motivation.
- ✚ To provide a comprehensive understanding of project identification, report preparation, and the project life cycle.
- ✚ To explore project appraisal methods and the sources of finance, including venture capital and export financing.
- ✚ To familiarize students with the role of entrepreneurial development agencies and their contribution to entrepreneurship.

UNIT - I: ENTRENEURSHIP

(18 HOURS)

Meaning of entrepreneurship - Types of Entrepreneurship - Traits of entrepreneurship - Factors promoting entrepreneurship - Barriers to entrepreneurship - the entrepreneurial culture- Stages in entrepreneurial process – Relationship between Entrepreneur and Intrapreneur- Women entrepreneurship and economic development- SHG.

UNIT - II: ENTREPRENEURIAL GROWTH

(18 HOURS)

Economic & Non-Economic Factors – Role of Government- Entrepreneurial Motivation – Theories – factors- Entrepreneurial Development – Need, Objectives, Phases Evaluation.

UNIT - III: PROJECTS IDENTIFICATION AND PROJECT REPORT

(18 HOURS)

Project – Meaning – Project Life Cycle – Project Identification – Choosing the right line of activity – Project Report – Concept – Formulation – Project Appraisal.

UNIT - IV: PROJECT APPRAISAL AND FINANCE

(18 HOURS)

Concept - methods of Appraisal- Need for financial Planning – Source of finance- - Capital structure – Capitalization –venture capital – Export Finance.

UNIT - V: ENTREPRENEURIAL DEVELOPMENT AGENCIES

(18 HOURS)

Commercial Banks – District Industrial Centre – National Small Industrial Corporation Development Organizations – Small Industries Service Institute – IDBI – FCI – ICICI – IRDBI.

TEXT BOOKS:

1. Vasant Desai (2006) Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, New Delhi. (Unit I, II, III, IV, V - No.380.6)
2. Gupta C.B & Srinivasan, (2010), Entrepreneurial Development, Sultan Chand & Sons, NewDelhi.

REFERENCE BOOKS:

1. Robert D. Hisrich, Michael P. Peters and Dean A. Shepherd (2022) Entrepreneurship, Tata McGraw Hill, New Delhi.
2. Poornima M. Charantimath, (2018), Entrepreneurship Development and Small Business Enterprises, Pearson Education, New Delhi.
3. Khanka, S.S.(2013), Entrepreneurial Development, S.Chand& Company, New Delhi.
4. Srivastava S.B, A Practical Guide to Industrial Entrepreneurs: Wiley Eastern Ltd, New Delhi
5. RadhaV, (20014), Entrepreneurship Developmen t– Prassanna Publishers & Distributors, Chennai.

WEB RESOURCE:

1. https://www.sultanchandandsons.com/images/BookImages/Chapters/213_Entrepreneurial%20development.pdf
2. <https://books.google.com.bd/books?id=uUdLAgAAQBAJ&printsec=copyright#v=onepage&q&f=false>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Recall the fundamental concepts, types, and traits of entrepreneurship and the barriers that entrepreneurs face.	K1, K2
CO2	Explain the factors influencing entrepreneurial growth, motivation theories, and the role of government in promoting entrepreneurship	K3, K4
CO3	Apply knowledge of project identification and formulate effective project reports for business activities.	K4, K5
CO4	: Analyze various project appraisal methods and assess financial planning strategies for entrepreneurship	K4, K5
CO5	Evaluate the role and functions of entrepreneurial development agencies in fostering small-scale and large-scale industries	K5
CO6	Synthesize entrepreneurial concepts to develop actionable strategies for project development and financing in diverse business contexts.	K6

K1- Remember; **K2-** Understanding; **K3** –Apply; **K4-** Analyze; **K5-** Evaluate; **K6** - Creative

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	0	0	0
CO2	3	9	9	3	3	3
CO3	3	3	9	3	3	3
CO4	3	3	3	9	3	3
CO5	3	3	3	3	9	9
CO6	3	3	3	9	3	3
Weightage	24	24	30	27	21	21
Weighted percentage of course contribution to	16.3%	16.3%	20.4%	18.3%	14.3%	14.3%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1	PO2, PO3	--	PO4, PO5, PO6
CO2 / K2	PO2, PO3	PO1, PO4, PO5, PO6	--	--
CO3 / K3	PO3	PO1, PO2, PO4, PO5, PO6	--	--
CO4 / K4	PO4	PO1, PO2, PO3, PO5, PO6	--	--
CO5 / K5	PO5, PO6	PO1, PO2, PO3, PO4	--	--
CO6 / K6	PO4	PO1, PO2, PO3, PO5, PO6	--	--

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **ENTREPRENEURIAL DEVELOPMENT** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HoD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	IV	P25EC19E2	ELECTIVE V	PRINCIPLES OF MANAGEMENT	LECTURE	6	4

COURSE DESCRIPTION:

This course provides an in-depth understanding of management functions, including planning, organizing, directing, and controlling, along with decision-making and leadership theories. It explores managerial skills, organizational structures, motivation, communication, and control techniques.

COURSE OBJECTIVES:

- ✚ To understand the fundamental concepts and principles of management and their application in organizations.
- ✚ To analyze the importance of planning and decision-making processes in achieving organizational goals.
- ✚ To develop knowledge about organizing, staffing, and managing organizational structures effectively.
- ✚ To examine the principles and theories of motivation, leadership, and communication in directing organizational efforts.
- ✚ To evaluate the importance of controlling and coordination in achieving organizational efficiency.

UNIT - I: FUNCTIONS OF MANAGEMENT (18 HOURS)

Definition- Nature and scope of management-Importance skills of managers-Levels of Management-Functional areas of management- Evolution of Management thoughts: Contribution of FW Taylor, Henri Fayol, Elton Mayo, Peter F Drucker's Management a science or an art?.

UNIT - II: PLANNING AND DECISION MAKING (18 HOURS)

Planning - Nature of Planning - importance of planning Process of planning - Classification of plans according to Time-Long-term planning – Medium- term Planning-Short term Planning- Methods of Planning Decision making# - Need for Decision making-Process in Decision Making -Types of Decisions - Problems in decision making.

UNIT - III: ORGANIZING (18 HOURS)

Definition-Types of organization - organizational structure-Span of control use of staff units and committees Delegation- Delegation and Centralization -. Centralization and Decentralization-Staffing: Definition-Sources of recruitment-Selection-Definition-process. Training-Definition-Types.

UNIT - IV: DIRECTING (18 HOURS)

Definition -Nature and purpose of Directing Principles Motivation Definition Theories of Motivation (Maslow's, McGregor, ERG Theory, Herzberg two factor theory) Leadership: Definition-Styles- Communication: Definition-Importance of Communication-Methods of Communication-Types –Barriers.

UNIT V: CONTROLLING

(18 HOURS)

Meaning and importance of controlling-control process-Budgetary and non-Budgetary Control Techniques-Requisites of an effective control system Relationship between planning and controlling-Need for co-ordination.

TEXT BOOKS:

1. Jayasankar,(2018) Principles of Management, Margham Publications, Chennai. (Unit I - V No. 380.34)
2. Stephen P. Robbins and Mary Coulter, Management, Prentice Hall of India, 9 edition 2005 Special Indian Edition, 2007.

REFERENCE BOOKS:

1. Harold Koontz, Heinz Wehrich and Mark V Cannice, Management -A global perspective, Prentice hall, 2005
2. P.C.Tripathi&P NReddy Principlesof Managements-TataMc GrawHill-New Delhi 2012
3. L. M. Prasad, Principles of Management, 10th Edition Sultan Chand & Sons. New Delhi 2021
4. R.C. Bhatia, Principles of Management, Sterling Publishers, New Delhi-2013.
5. H Koontz &H. Wehrich, Essentials of Management, An International and Leadership perspective, Tata McGrawHill: New Delhi-(2012).

WEB RESOURCE:

1. <https://kamarajcollege.ac.in/wp-content/uploads/Core-Principles-of-Management.pdf>
2. <https://www.msuniv.ac.in/images/distance%20education/learning%20materials/ug%20pg%202023/ug%202021/BBA%202021/DMPM11%20-%20I%20Seme>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Recall key management theories, principles, and concepts such as planning, organizing, directing, and controlling	K1, K2
CO2	Explain the nature and scope of management functions and the relevance of management theories to organizational practices.	K3, K4
CO3	Apply decision-making processes and planning techniques in real-world organizational scenarios.	K4, K5
CO4	Analyze organizational structures, delegation practices, and motivation theories to enhance team performance.	K4, K5
CO5	Evaluate the effectiveness of management strategies, including leadership styles, communication methods, and control systems.	K5
CO6	Design and implement management practices that promote coordination, innovation, and long-term organizational success.	K6

K1- Remember; **K2-** Understanding; **K3** –Apply; **K4-** Analyze; **K5-** Evaluate; **K6** - Creative

COs Consistency with POs: Articulation Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	9	3	9	1	9
CO2	9	9	1	9	3	0
CO3	1	3	9	0	9	3
CO4	9	9	1	9	1	9
CO5	3	9	9	1	9	9
CO6	9	9	9	9	9	9
Weightage	40	48	32	37	32	39
Weighted percentage of course contribution to	17.54%	21.05%	14.04%	16.23%	14.04%	17.11%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom’s Taxonomy) and POs

CO / K Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1, PO2, PO4, PO6	PO3	PO5	-
CO2 / K2	PO1, PO2, PO4	PO5	PO3	PO6
CO3 / K3	PO3, PO5	PO2, PO6	PO1	PO4
CO4 / K4	PO1, PO2, PO4, PO6	-	PO3, PO5	-
CO5 / K5	PO2, PO3, PO5, PO6	PO1	PO4	-
CO6 / K6	PO1, PO2, PO3, PO4, PO5, PO6	-	-	-

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **PRINCIPLES OF MANAGEMENT** course in the **M.A.**, Degree Programme is effective matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD

Programme Code	Semester	Course Code	Course Type	Course Title	Category	Hrs / Week	Credits
ECOPG1960	IV	P25EC19E3	ELECTIVE V	MARKETING MANAGEMENT	LECTURE	6	4

COURSE DESCRIPTION:

This course offers a comprehensive overview of marketing management, covering key concepts such as consumer behavior, product strategy, pricing, promotion, distribution, and digital marketing, with a focus on global marketing strategies and data-driven decision-making.

COURSE OBJECTIVES:

- ✚ To understand the fundamental concepts, theories, and frameworks in marketing management.
- ✚ Analyze market dynamics, customer behavior, and segmentations to devise appropriate marketing strategies.
- ✚ Develop a comprehensive marketing plan incorporating key elements.
- ✚ Evaluate the impact of marketing decisions on organizational performance and sustainability.
- ✚ Apply modern marketing concepts, including digital and global marketing, to real-world business scenarios

UNIT I: INTRODUCTION TO MARKETING MANAGEMENT (18 HOURS)

Definition, scope, and importance of marketing - Evolution of marketing concepts - Marketing environment and marketing ethics - The role of marketing in strategic management - Understanding the marketing mix (4Ps).

UNIT II: CONSUMER BEHAVIOR AND MARKET SEGMENTATION (18 HOURS)

Understanding consumer behavior and the decision-making process - Segmentation, targeting, and positioning (STP) strategy - Tools and techniques for market research - Psychological and sociological influences on buying behavior - Market segmentation criteria (demographic, geographic, psychographic, behavioral)

UNIT III: PRODUCT STRATEGY AND BRANDING (18 HOURS)

Product lifecycle and strategies at each stage - New product development and innovation - Product portfolio management - Branding, brand equity, and positioning - Product differentiation and competitive advantage.

UNIT IV: PRICING, PROMOTION, AND DISTRIBUTION (18 HOURS)

Pricing strategies: cost-based, competition-based, value-based - Promotional strategies: advertising, sales promotions, public relations, personal selling - Integrated marketing communication (IMC) - Distribution channels and logistics management - Digital and social media marketing strategies.

UNIT V: DIGITAL MARKETING AND GLOBAL MARKETING**(18 HOURS)**

Digital marketing tools and strategies (SEO, SEM, content marketing, email marketing) - Social media marketing and influencer marketing - The role of data analytics in marketing decision-making Global marketing strategies and market entry modes -Cross-cultural issues in global marketing – GIG marketing.

TEXT BOOKS:

1. Jayasankar J (2018), Marketing Management, Margham Publications, Chennai. **(Unit I, II, III, IV, V, Call No: 380.0 JAY.J - 22013648).**
2. Gupta C.B & N. Rajan Nair (2010), Marketing Management, Sultan Chand & Sons, New Delhi. **(Unit: IV & V, Call No. 380.8 GUP.C – 33010593).**

REFERENCE BOOKS:

1. Gupta, C. B., & Nair, Rajan. (2018). Marketing Management: Text & Cases. Sultan Chand & Sons. New Delhi.
2. Ramaswamy, V. S., & Namakumari, S. (2018). Marketing Management: Indian Context Global Perspective. Sage Publications Pvt. Ltd. New Delhi.
3. Kotler, P., Keller, K. L., Brady, M., Goodman, M., & Hansen, T. (2024). Marketing Management (5th European Edition). Pearson.
4. Dawar, N. (1990). Modern Marketing Management. Progressive Corporation. Bombay.
5. Memoria, C. B., & Joshi, R. L. (1991). Marketing Management. Kitab Mahal. New Delhi.

WEB RESOURCE:

1. <https://www.enotesmba.com/2013/01/marketing-management-notes.html>
2. <https://www.slideshare.net/slideshow/marketing-management-notes-212009832/212009832>

COURSE OUTCOMES:

CO	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL
CO1	Understand and apply core marketing concepts, including the evolution of marketing, marketing mix (4Ps),	K1, K2
CO2	Demonstrate an in-depth knowledge of consumer behavior and the decision-making process,	K3, K4
CO3	Evaluate and develop product strategies through the product lifecycle, branding, and new product development,	K4, K5
CO4	Design and implement pricing, promotion, and distribution strategies, integrating both traditional and digital channels to drive sales and brand awareness.	K4, K5
CO5	Understand the use of data analytics for decision-making.	K5
CO6	Assess and create global marketing strategies, accounting for cross-cultural considerations and evaluating various market entry modes to expand businesses internationally.	K6

K1- Remember; **K2-** Understanding; **K3 –**Apply; **K4-** Analyze; **K5-** Evaluate; **K6 –** Create

CO-PO Articulation Matrix:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	9	3	3	9	0	3
CO2	9	9	3	3	3	3
CO3	9	3	3	3	0	9
CO4	9	9	9	9	3	3
CO5	0	3	3	3	9	9
CO6	9	9	9	9	3	9
Weightage	45	36	30	36	18	36
Weighted percentage of course contribution to	22.39%	17.91%	14.93%	17.91%	8.96%	17.91%

Low – 1 Medium – 3 High – 9 No Correlation – 0

Course Outcomes mapped with knowledge level (Revised Bloom's Taxonomy) and POs

CO / K - Level	Level of Correlation			
	High	Medium	Low	Zero
CO1 / KI	PO1,PO4	PO2,PO3,PO6		PO5
CO2 / K2	PO1,PO2	PO3,PO4,PO5,PO6		
CO3 / K3	PO1,PO6	PO2,PO3,PO4		PO5
CO4 / K4	PO1,PO2,PO3,PO4,	PO5,PO6		
CO5 / K5	PO5,PO6	PO2,PO3,PO4		PO1
CO6 / K6	PO1,PO2,PO3,PO4,PO6	PO5		

Course Outcome (CO) Attainment Assessment Tools & Evaluation Procedure:

K Levels	C1	C2	C3	C4	Total Scholastic Marks	Attendance C5	CIA Total	% of Assessment
	T1 5 Marks	T9 6 Marks	Assign 4 Marks	Seminar 5 Marks	20 Marks	5 Marks	25 Marks	
KI	1	1		1	5			20
K2	1	1		1				
K3	1	1		1	6			24
K4	1	1		1	4			16
K5	1	1		1	5			20
K6		1						20
Non Scholastic						5		
Total	5	6	4	5	20	5	25	100

The COs and POs for the **MARKETING MANAGEMENT** course in the **M.A.**, Degree Programme is effectively matched by the course in-charge.

Signature of the Course In-Charge	Signature of the HOD