DEPARTMENT OF ECONOMICS

POST GRADUATE PROGRAMME - M.A. ECONOMICS

PG - SCHEME OF EXAMINATIONS

(For the candidates admitted from the academic year 2023-2024 onwards)

Sem	Course Code	Title of the Course	Nature of the Course	IH[1]	CP[2]	Exam Hours	CIA[3]	ESE[4]	Total
							Marks		
I	23PEC1C01	Core: Advanced Micro Economics – I	CC	6	4	3	25	75	100
	23PEC1C02	Core: Monetary Economics	CC	6	4	3	25	75	100
	23PEC1C03	Core: International Economics	CC	6	4	3	25	75	100
	23PEC1C04	Core: Mathematical Methods for Economics	CC	6	4	3	25	75	100
	23PEC1E01 23PEC1E02	Elective: Health Economics Elective: Gender Economics	DSE	6	4	3	25	75	100
		SWAYAM/NPTEL/MOOC			1				
II	23PEC2C05	Core: Advanced Micro Economics - II	CC	5	4	3	25	75	100
	23PEC2C06	Core: Agricultural Economics	CC	5	4	3	25	75	100
	23PEC2C07	Core: Advanced Industrial Economics	CC	5	4	3	25	75	100
	23PEC2C08	Core: Statistical Analysis *(Employability)*	CC	5	4	3	25	75	100
	23PEC2C09	Core: Research Methodology **(Skill Development)**	CC	5	4	3	25	75	100
	23PEC2E01 23PEC2E02	Elective: Foreign Trade Procedures & Documentation *(Skill Development & Employability)* Elective: Managerial Economics *(Skill Development)*	DSE	5	4	3	25	75	100
		Internship			2				
III	23PEC3C10	Core: Macro Economic Analysis	CC	6	4	3	25	75	100
	23PEC3C11	Core: Environmental Issues and Policies	CC	6	4	3	25	75	100
	23PEC3C12	Core: Econometrics *(Employability)*	CC	6	4	3	25	75	100
	23PEC3C13	Core: Computer Applications in Economics *(Employability, Skill Development & Innovation)*	CC	6	4	3	25	75	100
	23PEC3E01 23PEC3E02	Elective: Economics of Infrastructure Elective: Management of Micro Small and Medium Enterprises *(Entrepreneurship)*	DSE	6	4	3	25	75	100

		SWAYAM/NPTEL/MOOC			1				
IV	23PEC4C14	Core: Economics of Development and Growth	CC	6	4	3	25	75	100
	23PEC4C15	Core: Public Economics	CC	6	4	3	25	75	100
	23PEC4C16	Core: Fundamentals of Industry 4.0 (*Industry 4.0)*	CC	5	4	3	25	75	100
	23PEC4C17	Core: Labour Economics	CC	5	4	3	25	75	100
	23PEC4E01 23PEC4E02	Elective: Operations Research (*Skill Development)* Elective: Intellectual Property Rights (*Innovation*)	DSE	5	4	3	25	75	100
	23PEC4PVV	Project Work		3	6		25	75	100
	21PDIS401	Digital Security			2			50	50
					90+ 2+2 +2				**2200 + 50**

IH[1] – Instructional Hours, CP[2] – Credit Points
CIA[3] - Continuous Internal Assessment, ESE[4] – End Semester Examination

TOTAL MARKS

COURSE	MARKS	TOTAL CREDIT POINTS
Core	1700	68
Elective	400	16
Project	100	6
Digital Security	50	2
MOOC/SWAYAM / NPTEL		2
Internship		2
	2200+50	**90+2+2+2**

COURSES	ABBREVIATIONS
Core	CC
Discipline Specific Elective	DSE

Value **Added Course offered in**

Semester II (Collaborative)

Course	Title	Duration
Certificate Course	**Tally ERP 9**	**3 Months**

SEMESTER: I
COURSE CODE: 23PEC1C01
TITLE OF THE COURSE: CORE - ADVANCED MICRO ECONOMICS – I

COURSE OBJECTIVES

- To impart knowledge on the economic principles governing the behaviour of individuals regarding demand and consumption.
- To provide an insight into the theories of production and cost.
- To deepen the understanding of equilibrium under different market conditions.

COURSE OUTCOME

At the end of the course the student will be able to:

CO1	Improved the knowledge on various concepts of demand	K2
CO2	Equipped with the theories of consumer behaviour	K2
CO3	Analyse the theories of production and the nature of costs	K4
CO4	Determine the equilibrium under perfect competition and monopoly	K3
CO5	Describe how price & output is determined under monopolistic & oligopoly markets	K3

Syllabus

Credits: 4 **Instructional Hours:90**

UNIT I: DEMAND ANALYSIS (18 Hours)

Elasticity of Demand – Price Elasticity of Demand – Income Elasticity of Demand – Cross Elasticity of Demand - Measurement of Price Elasticity of Demand - Percentage Method - Point Method – Arc Method – Total Outlay Method - Determinants of Price Elasticity of Demand - Indifference Curve Analysis – Consumers Equilibrium – Price Effect -Income Effect - Substitution Effect.

(Self-Study: Price Elasticity of Demand)

UNIT II: THEORIES OF CONSUMER BEHAVIOUR (18 Hours)

Samuelson Revealed Preference Theory of Demand– Hicks Logical Ordering Theory of Demand – Individual Choice Under Risk and Uncertainty – Friedman–Savage Hypothesis – Markowitz Hypothesis – Neumann–Morgenstern Method of Measuring Utility

UNIT III: THEORY OF PRODUCTION (18 Hours)

Production Function – Law of Variable Proportion - Isoquants – Producer's Equilibrium – Returns to Scale – Cobb Douglas Production Function – CES Production Function – Economies of Scale – Diseconomies of Scale –Cost Concepts - Short-Run Cost Curves – Long-Run Cost Curves – Revenue Concepts – Revenue Curves

(Beyond the Curriculum: Supply – Law of Supply – Elasticity of Supply)

UNIT IV: PRODUCT PRICING – I (18 Hours)

Market Structure – Perfect Competition – Features – Equilibrium of Firm and Industry Under Perfect Competition – Monopoly – Price-Output Determination under Monopoly – Price Discrimination- Equilibrium under Discriminating Monopoly - Evils of Monopoly - Duopoly – Cournot – Edgeworth.

(Self-Study: Price Discrimination)

UNIT V: PRODUCT PRICING – II   (18 Hours)

Monopolistic Competition – Features – Price-Output Determination Under Monopolistic Competition – Group Equilibrium – Wastes of Monopolistic Competition – Oligopoly – Features – Types – Price-Output Determination under Oligopoly – Collusive Oligopoly – Cartel – Price Leadership – Price Rigidity.

TEXT BOOKS:
1. Ahuja, H L. (2017) Advanced Economic Theory, (21st Edition), S.Chand & Co, New Delhi.
2. Jhingan, M.L. (2017) Advanced Economic Theory, (14th Edition), Vrinda Publications, Delhi.

REFERENCE BOOKS:
1. Dewett K.K and Navalur M.H. (2010) Modern Economic Theory, (23rd Edition), Sultan Chand and Sons, New Delh
2. Mithani,D.M. (2015) Principles of Economics, (11th Edition), Himalaya Publishing House, Mumbai.
3. Agarwal H.S. (2009) Economic Analysis, (9th Edition), Ane Books Pvt Ltd, New Delhi.
4. Keshava S.R. (2010) Economics (1st Edition) New Age International Publishers, New Delhi.
5. Dominick Salvatore, (2017), Micro Economic Theory (3rd Edition), Tata McGraw Hill Publishing Company, Ne Delhi.
6. Jhinghan M.L and Stephen J.K (2016) Managerial Economics (2nd Edition), Vrinda Publications, Delhi.

BLENDED LEARNING
UNIT IV: Product Pricing - I

S.NO	Topics	Link
1.	Market Structure	*https://youtu.be/id0CoePRL5A*
2.	Perfect Competition Features	*https://youtu.be/iBPR_zTa0N8* *https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=1*
3.	Equilibrium under Perfect Competition	*https://youtu.be/5-rVCbHiFww*
4.	Monopoly	*https://youtu.be/D6WANcSMRQw*
5.	Price Output Determination under Monopoly	*https://youtu.be/fjsrVJxM_xE*
6.	Discriminating Monopoly & Equilibrium	***https://youtu.be/JTPr9GAfcMA***
7.	Duopoly	*https://youtu.be/Qq4PnrYnu2*

MAPPING OF CO's WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	3	3	1	2	2	2	1	1	2	3	2
CO2	2	2	2	2	1	1	1	2	1	1	2	2	2	2
CO3	3	2	2	2	2	1	1	2	1	1	1	2	2	1
CO4	3	2	2	3	2	1	1	1	1	1	2	2	3	1

CO5	3	2	2	3	2	1	1	1	1	1	2	2	3	1

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Case Study (Unit V)	Once in a Semester

Course Designed by: Dr.K.JAYANTHI	**Verified by HOD: Dr.K.JAYANTHI**
Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

COURSE CODE:23PEC1C02

TITLE OF THE COURSE: CORE - MONETARY ECONOMICS

COURSE OBJECTIVES
- To facilitate the students to acquire knowledge of demand for and supply of money
- To analyze various theories of interest
- To gain the knowledge on role of central bank in economic development and evaluate the monetary policy.

COURSE OUTCOME
At the completion of the course the student will be able to:

CO1	Understand the theories of demand for money	K2
CO2	Acquire the knowledge of money supply and its measurement	K2
CO3	Analyse the various theories of interest.	K4
CO4	Analyse the functions and credit control measures of Central Bank.	K4
CO5	Discuss the Inflation and monetary policy	K2

Syllabus

Credits: 4   **Instructional Hours: 90**

UNIT 1 THEORIES OF DEMAND FOR MONEY   (18 Hours)

Tobin's Portfolio Approach to Demand for Money - Baumol's Inventory Approach to Transaction Demand for Money – Friedman's Restatement of the Quantity Theory of Money – Variables – Total Wealth – The division of wealth between and Non-human- The expected Rates of Return – Other Variables – Criticisms.

UNIT II SUPPLY OF MONEY   (18 Hours)

Money Supply – Definition – Determinants of Money Supply – Measures of Money Supply in India – Approaches regarding measure of money – Velocity of Circulation of Money – Factors affecting velocity of circulation of Money – High Powered Money and the Money Multiplier.
(Self-Study: Velocity of Circulation of Money)

UNIT III THEORIES OF INTEREST   (18 Hours)

Classical Theory of Interest – Loanable Funds Theory of Interest – Keynes Liquidity Preference Theory of Interest – Superiority of Keynesian Theory over the Loanable Funds Theory – Modern Theory of Interest

UNIT IV BANKING SYSTEM   (18 Hours)

Central Bank - Functions of Central Bank –Credit Control – Objectives of Credit Control - Credit Control Methods: Bank Rate Policy – Open Market Operations – Changes in Variable Reserve Ratio – Interest Rate Policy – RBI: Role and functions – NBFI – Meaning – Types – Importance.
(Self-Study: Bank Rate Policy)

UNIT V INFLATION AND MONETARY POLICY   (18 Hours)

Inflation – Market Power Theory of Inflation – Conventional Demand-Pull Inflation – Structural Theories of Inflation – Monetary Policy - Objectives of Monetary policy – Instruments of Monetary Policy - Role of monetary policies in a developing economy – Limitations of Monetary Policy – Demonetization -Monetary policy- Role, Objectives and Instruments.

(Beyond the Curriculum: Inflation Index – WPI – CPI)

TEXT BOOK:

1. Jhingan M.L., (2016) Monetary Economics, (7th Edition), Vrinda Publication, New Delhi.

REFERENCE BOOKS:

1. Hajela T N (2017), Money Banking and International, (9th Edition), Ane Books Ltd, New Delhi.
2. Sundaram K. P. M (2013), Money, Banking and International Trade, Sultan Chand and Sons, New Delhi Seth M. L. (2011) Money Banking, International Trade and Public Finance, (27th Revised Edition), Lakshmi Narain Agarwal Publishers, Agra.
3. Cauvery R, Kruparani N, Sudhanayak U. K and Manimekalai A, (2010), Monetary Economics, (2nd Revised Edition), S Chand and Co, New Delhi
4. Suraj Gupta (2010), Monetary Economics: Institutions, Theory & Policy, S Chand & Company, New Delhi.

BLENDED LEARNING

UNIT V Inflation and Monetary Policy

S.No.	Topics	Link
1.	Monetary Policy- Role, Objectives and Instruments	*https://www.youtube.com/watch?v=B0JH6LuG3J4* *https://www.youtube.com/watch?v=4kmoHmhNUjc* *https://youtu.be/B0JH6LuG3J4*
2.	Inflation – Types	*https://youtu.be/OiPd1JYGljI*
3.	Inflation – Causes	*https://youtu.be/Pk9rXm5KbwE*

MAPPING OF COS WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	1	2	1	2	1	1	1	1	1	1	1
CO2	2	1	2	2	1	1	2	2	1	1	1	2	2	1
CO3	3	1	2	2	1	1	2	1	1	1	1	1	1	1
CO4	2	1	1	2	2	1	2	1	1	1	2	2	2	2
CO5	1	1	2	2	2	2	2	2	2	1	2	2	2	1

Correlation: 3 – High; 2 – Medium; 1 – Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Report Writing (Unit V)	Once in a Semester

Course Designed by: **Dr. N. KRISHNAVENI**	**Verified by HOD: Dr.K.JAYANTHI**
Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

SEMESTER: I

COURSE CODE: 23PEC1C03

TITLE OF THE COURSE: CORE - INTERNATIONAL ECONOMICS

COURSE OBJECTIVES

- To acquire basic knowledge about International Trade and its related issues.
- To understand the theories governing international trade
- To provide an insight on the ways to regulate international trade and international institutions.

COURSE OUTCOME

At the end of the course the students will be able to:

CO1	Relate the National and International Trade with difference and similarities	K2

CO2	Illustrates the Theory of International Trade	K4
CO3	Analysis the consequences and correcting methods of Balance of Payments disequilibrium	K4
CO4	Discuss the determination of equilibrium exchange rate	K2
CO5	Outline the role of Institutions & Regional Blocs in International Trade	K4

Syllabus

Credits: 4   **Instructional Hours: 90**

UNIT I: INTERNATIONAL TRADE   (18 Hours)

International Trade – Similarities and dissimilarities between National and International Trade – Role of International Trade in Economic Development – Gains From International Trade – Factors Determining Gains From Trade - Measurement of Gains From Trade – Tariffs –Non-Tariff Barriers –Quotas

UNIT II: THEORIES OF INTERNATIONAL TRADE   (18 Hours)

Classical Theory of International Trade: Absolute Cost Advantage - Theory of Comparative Cost Advantage – Haberler's Theory of Opportunity Costs–Modern Theory of Factor Endowments: Heckscher- Ohlin-Samuelson's Factor - Price Equalization Theorem.

UNIT III: TERMS OF TRADE, BALANCE OF PAYMENT AND EXCHANGE
            CONTROL   (18 Hours)

Terms of Trade – Types – Factors Affecting Terms of Trade –Balance of Payment – Equilibrium in Balance of Payments - Disequilibrium in Balance of Payments – Consequences for Disequilibrium in Balance of Payments – Measures to correct disequilibrium in Balance of Payments - Exchange Control - Features – Objectives – Methods of Exchange Control.
(***Self-Study: Measures to Correcting Disequilibrium***)

UNIT IV: FOREIGN EXCHANGE RATE   (18 Hours)

Foreign Exchange Rate - Determination of Equilibrium Exchange Rate – Mint Parity Theory – Purchasing Power Parity Theory – Causes of Fluctuations in Exchange Rate - Foreign Exchange Rate Policy – Fixed Exchange Rate - Flexible Exchange Rates – Spot and Forward Foreign Exchange Markets.
(***Beyond the Curriculum: Trends in Global Foreign Exchange Market***)

UNIT V: INTERNATIONAL INSTITUTIONS   (18 Hours)

World Bank- Objectives and its Functions - International Monetary Fund – Objectives and its Functions– General Agreement on Tariff and Trade – objectives -Uruguay Round – World Trade Organization-Objectives and Functions – UNCTAD - Origin and Function –Regional Trade Blocs – SAARC-ASEAN-New International Economic Order (NIEO)
(***Self-Study: International Institutions and growth of trade***)

TEXT BOOK

1. Mithani D.M., (2017) International Economics, (8thRevised Edition), Himalaya Publishing House, Mumbai.

REFERENCE BOOKS

1. Jhingan M L., (2017) International Economics, (7th Edition), Vrinda Publications Private
Limited, Delhi.
2. Neelamegam V, (2010) International Trade, (3rd Edition), Vrinda Publications Pvt Ltd, Delhi.
3. Francis *Cherunilam,* (2017) International Economics, (5th Edition), McGraw Hill Education, New Delhi
4. Pawan Kumar Oberoi. (2012) International Trade, (2nd Edition) Global Academic Publishers,
New Delhi.

BLENDED LEARNING

UNIT V: International Institutions

S.No.	Topics	Link
1.	International Financial Institutions	*https://www.youtube.com/watch?v=mkCA-uaI8O4*
2.	Objectives of IMF	*https://www.youtube.com/watch?v=XvEJ8UeurJU*
3.	Functions of IMF	*https://www.youtube.com/watch?v=abqDLrT8zuc*
4.	Working of the IMF	*https://www.youtube.com/watch?v=knVMZbpfIu8&t=20s*
5.	Objectives & Working of World Bank	***https://www.youtube.com/watch?v=vK5_dcEXukg***
6.	WTO Functions	*https://www.youtube.com/watch?v=4--GVz6fLh8*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	1	1	1	1	1	1	1	1	1	1	2
CO2	3	1	1	1	1	2	1	2	1	1	1	1	1	1
CO3	3	1	1	1	1	1	2	1	2	1	1	1	1	1
CO4	2	2	1	1	1	1	1	1	1	1	1	1	1	2
CO5	2	1	1	1	1	2	1	1	1	1	1	1	1	1

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester

7.	Class Participation (Unit V)	Once in a Semester

Course Designed by: Dr.Sr. A. ADAIKALA MARY	Verified by HOD: Dr.K.JAYANTHI
Checked by CDC: Dr.G.CHITRA	Approved by : **Principal**

SEMESTER: I
COURSE CODE: 23PEC1C04
TITLE OF THE COURSE: CORE - MATHEMATICAL METHODS FOR ECONOMICS

COURSE OBJECTIVES

- To facilitate the students to describe the mathematical tools and economic theory.
- To ensure basic application of mathematical tools in economics.

COURSE OUTCOME

At the end of the course the students will be able to:

CO1	Acquire the knowledge of applying mathematical tools to simple economic problems	K2
CO2	Apply the concept of differentiation and its application in economics	K3
CO3	Gain knowledge to apply the partial derivatives in economics	K3
CO4	Understand the concept of Integration and its application in economics	K3
CO5	Apply the concept of Input-output Analysis model	K3

Syllabus

Credits: 4   **Instructional Hours: 90**

UNIT I MATRICES AND DETERMINANTS   (18 Hours)

Matrix – Features of Matrix - Types of Matrix- Matrix Operations: Addition, Subtraction and Multiplication – Determinants – Second and Third Order Determinants - Basic Properties of Determinants - Linear Equations - Cramer's rule.

(Self -Study: Basic Properties of Determinants)

UNIT II DIFFERENTIATION   (18 Hours)

Differentiation - Rules of Differential Calculus – Second Order Differentiation – Differential Co-efficient and Elasticity of Demand – Total, Average and Marginal Cost – Relation between Average and Marginal Cost - Minimizing Average Cost – Relation between Average and Marginal Revenue – Profit Maximization.

(Self-Study: Total, Average and Marginal cost)

UNIT III PARTIAL AND TOTAL DERIVATIVES   (18 Hours)

Second Order Partial Derivatives – Cross Partial Derivatives of Functions of more than Two Variables – Application of Partial Derivatives in Economics – Second Order Total Differential – Maxima and Minima of Function of Two Variables.

(Beyond the Curriculum: Limits – Properties of Limits – Standard Limits)

UNIT IV INTEGRAL CALCULUS   (18 Hours)

Integration - Basic Rules of Integration – Methods of Integration: Integration by Substitution - Integration by Rational Partial Fractions – Integration by Parts – Application of Integration in Economics: Consumer Surplus – Producer's Surplus.

UNIT V INPUT-OUTPUT ANALYSIS   (18 Hours)

Input-Output Analysis – Assumptions - Closed and Open Input-Output Models: Co-efficient Matrix and Open Model – Hawkins -Simon Conditions - Solution of Two Industries - Determination of Equilibrium Prices - Determination of Value Added - Co-efficient Matrix and Closed Model - Consumption Function Analysis - Leontief Production Function - Dynamic Input-Output Model.

TEXT BOOK:
1. Metha - Madnani., (2016), Mathematics for Economists, (9th Edition), Sultan Chand & Sons Publications, New Delhi.

REFERENCE BOOKS:
1. Agarwal D.R., (2015). Mathematics and Statistics in Economics, (1st Edition), Vrinda Publications Private Limited, New Delhi.
2. Verchamy R. (2018) , Quantitative Methods for Economists, (2nd Edition), New Age International Publishers, New Delhi.
3. Allen R G D. (2014), Mathematical Analysis for Economists, Trinity Press, New Delhi
4. Rajagopalan.S., and Sattanathan.R. (2015), (1st Edition), Business Mathematics, Tata McGraw Hill Publications, New Delhi.

5. Bose, D. (2015), An Introduction to Mathematical Methods, (1st Edition-Reprint), Himalaya Publishing House, New Delhi.

BLENDED LEARNING

UNIT V Input-Output Analysis

S.No.	Topics	Links
1.	Input Output Analysis	*https://www.youtube.com/watch?v=8Vnez5u0lGM*
2.	Closed and Open Input-Output Models	*https://www.youtube.com/watch?v=JYTEHjHHx1*
3.	Hawkins-Simon Conditions	*https://www.youtube.com/watch?v=kwTyS51Pfr4* *https://www.youtube.com/watch?v=HPxpd4jYl8g*
4.	Leontief Production Function	*https://www.youtube.com/watch?v=U0hGtZqUbSM*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	2	2	1	1	1	2	1	2	3	1	2
CO2	3	2	1	2	1	2	1	2	1	2	3	2	2	3
CO3	3	3	2	2	1	1	2	1	1	2	1	2	2	3
CO4	3	2	1	1	2	1	2	2	1	1	1	1	1	2
CO5	3	3	2	2	2	1	3	2	2	1	3	1	2	2

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Group Discussion (Unit V)	Once in a Semester

Course Designed by: Dr. R. UMA	Verified by HOD: Dr.K.JAYANTHI

	Approved by :
Checked by CDC: Dr.G.CHITRA	
	Principal

SEMESTER: I

COURSE CODE: 23PEC1E01

TITLE OF THE COURSE: ELECTIVE - HEALTH ECONOMICS

COURSE OBJECTIVES

- To give an introduction to health economics and theories of Health.
- To expose and analyse the functioning of healthcare system.

COURSE OUTCOME

At the completion of the course the student will be able to

CO 1	Interpret and appropriately apply the key concepts of Health economics.	K2
CO 2	Discuss the demand for Health Theories.	K2
CO 3	Describe major types of economic evaluation and to understand their use in the decision-making process	K2
CO 4	Understand the sources of healthcare Finance and Insurance	K3
CO 5	Able to describe the main features of the Indian healthcare Market	K2

Syllabus

Credits: 4   **Instructional Hours: 90**

UNIT I HEALTH ECONOMICS   **(18 Hours)**

Health Economics- Meaning, Definition - Conceptual Background of Health - Nature of Medical Care as a Commodity - Health Indicators - Health Status - Human Development Index – Important aspects of Healthcare - Diseases Burden in India - Communicable and Non-Communicable Diseases.

UNIT II DEMAND FOR HEALTHCARE   **(18 Hours)**

Demand for Health- Factors associated with Demand for Health-Health Seeking Behaviour – Demand for Health Theories - Human Capital Theory by Gary S. Becker 1962 - demand for Health Care theory of Grossman (2002) - Indifference curve for Health and Other goods-Health Production Function - Measuring Productivity in Healthcare.

(Self-Study: System of Medicine)

UNIT III HEALTHCARE COST   (18 Hours)

Healthcare Cost- Healthcare Cost Function-Economic Evaluation – Type of Healthcare Cost – Direct Medical Cost- Non-Direct Medical Cost- Indirect Cost- Cost Benefit Analysis- Cost Identification analysis and Cost Effectiveness – Health Expenditure in India.

UNIT IV HEALTH INSURANCE   (18 Hours)

Healthcare Financing – Sources - Issues – Out of Pocket Expenditure – Health Insurance – Meaning – Types - Health Insurance Schemes in India - Mandatory, Voluntary, Employer Based and Social/ Community Based Insurance System - Theory of Health Insurance by John Nyman.

UNIT V HEALTHCARE MARKET   (18 Hours)

Healthcare Market - Healthcare Infrastructure in India - System of Medicine - Choice of Hospital - Utilization of Healthcare Services - Health care Industry in India- Role of Government in Health Sector - Role of Private Sector – Role of Drug Industry (Pharmaceutical Industry) in India - Medical Tourism

(Self-Study: Medical Tourism)

TEXT BOOKS:
1. James W Harderson (2018), Health Economic and Policy (Wilt Economic Application), (7th Edition), Cengage Learning, USA
2. Santerre and Neum (2012), Health Economics – Theories, Insights and Industry Studies, (6th Edition), Cengage Learning, USA

REFERENCE BOOKS:
1. Anand N K & Shikha Goel. (2017), Health Economics, (2nd Edition), AITBS Publishers New Delhi.
2. Jay Bhattacharya and Timothy Hyde, Peter Tu (2013) "Health Economics", Macmillan International Higher Education, London.
3. Pedro Pita Barros and Xavier Martinez-Giralt (2012) Health Economics- An Industrial Organization Perspective, Routledge Taylor and Francis Group, London.
4. Andrew M. Jones, Nigel Rice, Teresa Bago D'uva and Silvia Balia (2012) Applied Health Economics (Second edition) Routledge Taylor and Francis Group, London and New York.
5. Lorna Guniness & Virgina Wiseman. (2011), Introduction to Health Economics, (2nd Edition), Open University Press, United Kingdom.
6. Culyer, A.J., (2010) The Directory of Health Economics, Edward Elgar Publications, United Kingdom.
7. Himanusha Skar, Rout and Prashant Panda, (2007) Health Economics in India – New Century Publications, New Delhi.

BLENDED LEARNING
 UNIT IV: Health Insurance

S.No.	Topics	Links
1.	Healthcare Financing and Sources and Issues	*https://youtu.be/X-7JoOPbs50*
2.	Health Insurance	*https://youtu.be/Oxt7pFzL4cU*
3.	Community Based Insurance	*https://youtu.be/GK_IZHwCAnU*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	1	1	1	1	2	1	1	1	1	1	2	3
CO2	2	1	1	2	2	1	2	2	1	1	1	1	2	3
CO3	1	1	1	3	2	1	2	2	1	1	1	1	2	3
CO4	2	1	1	2	1	2	2	2	1	1	2	2	1	2
CO5	1	1	1	1	1	1	2	1	1	1	1	1	1	3

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & Iv)	Twice in a Semester
7.	Survey (Unit V)	Once in a Semester

Course Designed by: Dr. R. MEENAKSHI	Verified by HOD: Dr.K.JAYANTHI
Checked by CDC: Dr.G.CHITRA	Approved by : Principal

COURSE CODE: 23PEC1E02

TITLE OF THE COURSE: ELECTIVE - GENDER ECONOMICS

COURSE OBJECTIVES

- To expose the students, understand important components of gender studies
- To equip the students to understand various challenges of women as an economic agent in the patriarchal structure of society
- Perceive the ways and means to address various social, economic, environmental, and other critical issues faced by women at the local, national and global levels.

COURSE OUTCOME

At the end of the course the student will be able to:

CO1	Know the concepts related to gender studies	K2
CO2	Gain knowledge on the contribution of Female work participation in economic activities	K2
CO3	Gain knowledge about the major concepts related to Gender socialization	K2
CO4	Enhance the knowledge on Gender Issues	K4
CO5	Gain information on Social Security and Protection for Women	K2

Syllabus

Credits: 4   **Instructional Hours: 90 Hrs**

UNIT I INTRODUCTION TO GENDER STUDIES   **(18 Hours)**

Concepts of Gender - Feminity and Masculinity - Importance of Women Studies - Patrilineal and Matrilineal Systems and its relevance to present Indian Society - Demography of female Population in India - Age Structure - Mortality Rates - Inter-State variations in Sex Ratio - Causes of Declining Sex Ratio.

UNIT II WOMEN AND LABOUR MARKETS   **(18 Hours)**

Supply and Demand for Female Labour in Developed and Developing Countries - Factors affecting Female Entry in Labour Markets - Female Work Participation in Agriculture - Female Work Participation in Non-Agriculture Rural Activities - Women in Formal and Informal Sector - Challenges faced by Women Labourers and Measures for Protection.

(Self-Study: Demand for female labour in India)

UNIT III GENDER SOCIALIZATION   **(18 Hours)**

Stages - Agencies of Socialization–Social Construction of Gender Sex and Gender – Gender Discrimination – Gender Stereotyping – Gender Sensitivity - Gender Roles – Gender Perspective – Gender Analysis – Gender Auditing – Gender Budgeting - Gender Equity – Gender Equality – Gender Mainstreaming.

UNIT IV WOMEN EDUCATION & HEALTH   (18 Hours)

Gender Issues in Poverty - Feminization of Poverty, Inclusive Growth and Development - Women and Education: Gross Enrolment Ratio in India - Addressing Gender Inequalities in Education - Need for Women Education – Measures to improve Women's Health -Gender Equity in Health: Access to Nutrition - Measurement of Fertility and its Control -UNDP's Gender related Measures

UNIT V SOCIAL SECURITY AND PROTECTION FOR WOMEN   (18 Hours)

Decentralization of Governance and Empowerment of Women in India - Importance of 73rd Amendment of Constitution in Gender Empowerment - Protection of Property Rights - National Commission for Women (NCW) - National Policy for Empowering Women - International measures to Protect Women's' Rights - U.N Decade for women - UN convention on CEDAW and DEVAW.
(Self-Study: Protection of Property Rights)

TEXT BOOK:

1. Sen, Sujatha (2012): Gender Studies, Dorling Kindersley (India) Private Limited, New Delhi.

REFERENCE BOOKS:

1. Dutta, Nandita and, SumitraJha (2014): Women and Rural Development- Pacific Books International Delhi.
2. Jitendra Ahirrao (2013): Entrepreneurship and Rural Women in India- New Century
3. Publications, New Delhi.
4. A. Venkateswarlu, et al. (2013): Dimensions of Female Sex Ratio: Interstate Variations in India Serial Publications, New Delhi.
5. Singh A K. (2011), Gender and Digital Economy, (1ˢᵗ Edition), M D Publications Pvt. Ltd, New Delhi.
6. Pal, Manoranjan et.al (Ed) (2011): Health, Nutritional Status and Role of Women in India - Oxford University Press, New Delhi.
7. Dr. Anand Prakash, 2015, Gender and Public Policy, Random Publications, New Delhi

BLENDED LEARNING

UNIT IV Women Empowerment Through Education & Health

S.No.	Topics	Links
1.	Gender Issues in Poverty	*https://opentextbc.ca/womenintheworld/chapter/chapter-1-women-and-poverty/*
2.	Women and Education	*https://www.youtube.com/watch?v=HwpWCFRr_jo* *https://www.youtube.com/watch?v=_QvbFRwuuOo*
3.	Gender Equity in Health	*https://en.wikipedia.org/wiki/Gender_disparities_in_health*
4.	UNDP's Gender related Measures	*http://14.139.60.153/bitstream/123456789/202/1/Doc-GENDERING%20DEVELOPMENT%20INDICES.pdf*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	2	1	2	1	1	1	1	1	1	3	2	2	1	1
CO2	2	1	1	2	1	1	2	1	1	2	1	2	1	1
CO3	2	1	2	2	1	1	2	1	1	2	1	2	2	1
CO4	3	2	2	2	1	2	2	3	2	2	2	2	1	1
CO5	2	1	1	2	1	1	2	1	2	2	2	2	1	2

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	PPT (Unit V)	Once in a Semester

Course Designed by: **Dr. J.JACINTHA MARIA FLORENCE**	**Verified by HOD: Dr.K.JAYANTHI**
Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

TITLE OF THE COURSE: CORE - ADVANCED MICRO ECONOMICS – II

COURSE OBJECTIVES

- To impart knowledge on alternative theories of firm.
- To disseminate information on the theories of distribution and factor pricing.
- To enlighten the students about general equilibrium and welfare economics.

COURSE OUTCOME

At the end of the course the student will be able to:

CO1	Understand the behaviour of firms with the help of managerial theories of firm	K2
CO2	Describe various theories of distribution under perfect and imperfect competition	K3
CO3	Analyse how the various factors of production are priced in the market	K4
CO4	Explain the concept of general equilibrium and demonstrates how the economy achieves equilibrium under perfect competition	K3
CO5	Discuss the view of different economists on the concept of welfare economics	K3

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I: THEORIES OF FIRM   (15 Hours)

Baumol's Sales Maximization Theory – Marris Growth Maximization Theory -Williamson Utility Maximization – Cyert and March Behavioural Theory – Hall-Hitch Full Cost Pricing –Modigliani Model.

UNIT II: THEORIES OF DISTRIBUTION   (15 Hours)

Personal and Functional Distribution – Marginal Productivity Theory of Distribution – Modern Theory of Distribution – Factor Pricing under Perfect Competition – Factor Pricing under Imperfect Competition – Euler's Product Exhaustion Theorem.

(Self-Study: Marginal Productivity Theory of Distribution)

UNIT III: FACTOR PRICING   (15 Hours)

Rent - Ricardian Theory of Rent – Modern Theory of Rent – Quasi Rent –Wages - Theories of Wages – Exploitation of Labour – Collective Bargaining – Interest -Loanable Funds Theory – Keynes Liquidity Preference Theory – Profit - Theories of Profit**.**

(Self-Study: Keynes Liquidity Preference Theory)

UNIT IV: GENERAL EQUILIBRIUM   (15 Hours)

Partial and General Equilibrium – General Equilibrium of Exchange and Consumption - Pure Exchange Economy – General Equilibrium of Production – Edgeworth – Transformation Curve - General Equilibrium of Production and Exchange - General Equilibrium and Perfect Competition – Exchange – Production - Production and Exchange

UNIT V: WELFARE ECONOMICS   (15 Hours)

Nature of Welfare Economics – Marshall's Welfare Economics – Pigou's Welfare Economics – Welfare Criterion – Pareto Optimality – Conditions of Pareto Optimality – Kaldor-Hicks Compensation Criteria – Scitovsky Double Criterion

(Beyond the Curriculum: Amartya Sen's Views on Welfare)

TEXT BOOKS:

1. H L Ahuja, (2017) Advanced Economic Theory, (21st Edition) S.Chand Publishing, New Delhi.
2. ML Jhingan, (2017) Advanced Economic Theory, (14th Edition) Vrinda Publications, Delhi.

REFERENCE BOOKS:

1. Dewett K.K and Navalur M.H. (2010) Modern Economic Theory, (23rd Edition), Sultan Chand and Sons, New Delhi.
2. Mithani,D.M. (2005) Principles of Economics, (10th Edition), Himalaya Publishing House, Mumbai.
3. Agarwal H.S. (2009) Economic Analysis, (9th Edition), Ane Books Pvt Ltd, New Delhi
4. Dominick Salvatore, (2004), Micro Economic Theory (3rd Edition) Tata McGraw Hill Publishing Company, New Delhi.
5. Jhinghan M.L and Stephen J.K (2016) Managerial Economics (2nd Edition). Vrinda Publications, Delhi

BLENDED LEARNING

UNIT IV: General Equilibrium

UNIT V: Welfare Economics

S.No.	Topics	Links
1.	General equilibrium of exchange and production	*https://youtu.be/zLh8rpaoT-Y*
2.	Pareto optimality criterion	*https://youtu.be/XlhoCeksmX4*
3.	Welfare economics	*https://youtu.be/TFuBBsWvbig*

MAPPING OF CO's WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	3	1	2	2	2	1	1	2	2	2	1
CO2	3	2	2	2	2	1	1	2	1	1	1	2	2	2
CO3	3	2	3	2	2	2	1	1	1	1	1	2	2	2
CO4	2	2	2	2	1	1	2	1	1	1	2	2	2	1
CO5	2	2	2	2	1	1	1	1	1	1	1	2	2	1

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	PPT (Unit V)	Once in a Semester

Course Designed by: Dr.K.JAYANTHI	**Verified by HOD: Dr.K.JAYANTHI**
Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

SEMESTER: II

COURSE CODE: 23PEC2C06

TITLE OF THE COURSE: CORE – AGRICULTURAL ECONOMICS

COURSE OBJECTIVES

- To disseminate knowledge on the agricultural economy of India, its problem and prospects.
- To familiarize students with policy issues relevant to Indian Agricultural Sector.
- To enable the student to understand the structural and institutional aspects of agricultural economy of India

COURSE OUTCOME

At the end of the course the students will be able to:

CO1	Compare Industrial sector with Agricultural sector of Indian Economy	K2
CO2	Outline the Land reform measures	K4
CO3	Discuss the growth and productivity trends in Agricultural Sector	K2
CO4	Able to comprehend Agricultural Price Policies and need for regulated markets	K2
CO5	Acquire knowledge on sources of Agricultural Credit	K2

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I AGRICULTURAL ECONOMICS   (15 Hours)

Agricultural Economics – Nature and Scope of Agricultural Economics – Role of Agriculture in Economic Development – Interdependency of agriculture and industry –Agricultural Problems contributing to backwardness – Government Measures – Farm Inputs – Seeds – Fertilizers.

UNIT II STRUCTURAL CHANGES IN AGRICULTURE   (15 Hours)

Land Tenure - Land Reforms –Measures –Shortcomings of Land Reforms - Types of Holding – Large Scale Farming – Advantages – Disadvantages -Small Scale Farming – Advantages – Disadvantages - Irrigation – Sources of Irrigation – Problems of Irrigation - Measures to improve irrigation facilities.
(Beyond the Curriculum: Organic Farming)

UNIT III AGRICULTURAL PRODUCTION   (15 Hours)

Growth and Productivity Trends in Agriculture – Causes for Low Productivity – Measures to Increase Productivity – Cropping Pattern – Factors determining cropping pattern - Improvements in Cropping Pattern - Green Revolution – Features – Merits and Demerits – Second Green Revolution.
(Self-Study: Second Green Revolution)

UNIT IV AGRICULTURAL PRICE AND MARKETING   (15 Hours)

Agricultural Price Policy - Objectives – Instruments - Buffer Stock - Public Distribution System – Targeted Public Distribution System (TDS) - Short Comings - Government Measures - Food Security – Agricultural Marketing - Defects in Agricultural Marketing – Measures.

UNIT V AGRICULTURAL FINANCE   (15 Hours)

Rural Indebtedness - Causes of Rural Indebtedness - Consequences of Rural Indebtedness - Agricultural Credit - Types of Credit – Sources of Credit – Institutional and Non-Institutional – NABARD - Cooperatives – Commercial Banks – Regional Rural Banks – Agricultural Refinance and Development Corporation.
(Self-Study: Sources of Credit)

TEXT BOOK:

1. Gupta, K (2014) Agricultural Economics, (3rd Edition) Vrinda Publications Pvt Ltd, New Delhi .

REFERENCE BOOKS:

1. Sankaran S (2016), Agricultural Economy of India, (5th Edition) Margham Publications, Chennai.
2. Misra and Puri (2017), Indian Economy, (3rd Edition) Himalaya Publishing House, Mumbai,
3. Datt and KPM Sundharam (2017), Indian Economy, (5th Edition) S Chand and Sons, New Delhi,
4. Mamoria and Tripathi, (2008) Agricultural Problems of India, (2nd Edition) Kitab Mahal, Allahabad.

BLENDED LEARNING
UNIT IV Agricultural Price and Marketing
UNIT V Agricultural Finance

S.No.	Topics	Links
1.	Agricultural marketing	*https://www.dphu.org/uploads/attachements/books/books_2332_0.pdf*
2.	Buffer stock, PDS, Food Security	*https://www.youtube.com/watch?v=Yb2tHQ8MuOk*
3.	Rural indebtedness causes, measures	*https://www.youtube.com/watch?v=38LowFhfmus*
4.	Sources of credit	*https://www.youtube.com/watch?v=UQCw7ilV6iY*
5.	NABARD	*https://www.slideshare.net/venupraveen/nabard-ppt-47010202* *https://www.nabard.org/content.aspx?id=466*
6.	Agricultural Refinance and Development Corporation & Regional Rural Banks	*http://studymateriall.com/the-agricultural-refinance-development-corporation-ardc/*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2	2	1	1	3	1	1	2	1	2	1	2
CO2	2	1	1	1	1	1	1	1	1	2	1	2	1	2
CO3	2	1	2	2	1	1	2	2	1	2	2	2	1	1
CO4	2		1	1	1	1	2	1	2	1	1	2	1	2
CO5	2	2	1	1	1	1	2	2	3	3	2	3	1	1

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Group Discussion (Unit V)	Once in a Semester

Course Designed by: **Dr. J. JACINTHA MARIA FLORENCE**	**Verified by HOD: Dr.K.JAYANTHI**

	Approved by :
Checked by CDC: Dr.G.CHITRA	
	Principal

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SEMESTER: II

COURSE CODE: 23PEC2C07

TITLE OF THE COURSE: CORE - ADVANCED INDUSTRIAL ECONOMICS

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COURSE OBJECTIVES

- To enable the students to measure Industrial productivity and efficiency.
- To facilitate the students to take decisions regarding location of industry.
- To familiarize the students in the financial institutions and industrial policies.

COURSE OUTCOME

At the end of the course the students will be able to:

CO1	Acquire the knowledge of industrial efficiency in increasing the productivity.	K2
CO2	Analyse the industrial location theories in the selection of industrial location.	K4
CO3	Gain the knowledge of productivity tools in industrial production.	K2
CO4	Summarize various financial institutions that support industrial sector.	K2
CO5	Evaluate the industrial policies that promote industrial development.	K4

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Syllabus

</div>

Credits: 4   **Instructional Hours: 75**

UNIT I: INDUSTRIAL EFFICIENCY   **(15 Hours)**

Meaning of Plant, Firm and Industry – Industrial Efficiency – Determinants of Economic Efficiency – Measurement of the Efficiency Levels – Concept of Organizational Form – Types of Organizational Form – Business motives.

(Self-Study: Concept of Organizational Form)

UNIT II: INDUSTRIAL LOCATION   **(15 Hours)**

Determinants of Industrial Location – Approaches to Industrial Locational Analysis: Geographical Contributions – Central Place Theory – Renner's Theory – Rawstron's Principles – Weber's Theory of Location – Sargant Florence Theory.

UNIT III: INDUSTRIAL PRODUCTIVITY   (15 Hours)

Industrial Productivity – Concept – Measurement of Industrial Productivity – Importance of Productivity Analysis – Productivity and Production Tools – Factors affecting Industrial Productivity.

(Beyond the Curriculum: Industrial Sickness – Causes - Measures)

UNIT IV: INDUSTRIAL FINANCE   (15 Hours)

Industrial Finance - Industrial Development Bank of India (IDBI) - Small Industrial Development Bank of India (SIDBI) - Industrial Finance Corporation of India (IFCI) — National Industrial Development Corporation (NIDC) - Industrial Credit and Investment Corporations of India (ICICI) - State Financial Corporation's (SFC)

UNIT V: INDUSTRIAL POLICY   (15 Hours)

Industrial Policy Resolution of 1948 – Industrial Policy Statement of 1956 – Industrial Licensing Policy 1970 – Industrial Policy Statement of 1977 - Industrial Policy Statement of 1980 - Industrial Policy Statement of 1990 – New Industrial Policy Statement of 1991.

(Self-Study: Industrial policy 1956)

TEXT BOOK:

1. Barthwal R.R. (20121), Industrial Economics, (4rd Edition), New Age International (P) Ltd Publishers, New Delhi.

REFERENCE BOOKS:

1. Kiran Jotvwani. (2016), Industrial Economics, Nirali Prakashan Publishers, Pune.
2. Ranjana Seth, (2010), Industrial Economics, (1st Edition), Ane Books Private Ltd, New Delhi
3. Misra S.K Puri V.K, (2018), Indian Industrial Economy, (36th Edition), Himalaya Publishing House, Mumbai.
4. Mani N. (2022), Industrial Economics, New Century Publications, Chennai.

BLENDED LEARNING
UNIT IV: Industrial Finance

S.No.	Topics	Links
1.	IDBI	https://youtu.be/d-YtgDQLeQU
2.	SIDBI	https://youtu.be/fiJmubxkHrU

3.	IFCI	https://youtu.be/xm5Up37Qok0
4.	SFC	https://youtu.be/hX1_jk4I0IU
5.	ICICI	https://youtu.be/hX1_jk4I0IU

MAPPING OF COs WITH POs AND PSOs

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CO2	2	1	1	2	1	1	1	2	1	2	1	1	1	1
CO3	2	1	1	2	2	1	2	2	2	1	1	1	1	1
CO4	2	1	2	1	1	1	1	1	1	1	1	1	1	2
CO5	2	1	3	1	1	1	2	1	1	2	1	1	1	2

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Report Writing (Unit V)	Once in a Semester

Course Designed by: Dr. N. KRISHNAVENI	**Verified by HOD: Dr.K.JAYANTHI**
Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

COURSE CODE: 23PEC2C08

TITLE OF THE COURSE: CORE - STATISTICAL ANALYSIS

(Employability)

COURSE OBJECTIVES

- To ensure student with the tools of statistics in analyzing economic problems.
- To enable students to handle statistical data effectively in making decisions.

COURSE OUTCOME

At the end of the course the students will be able to:

CO1	Understand the concepts of central tendency and Dispersion.	K3
CO2	Acquire knowledge on the different methods of sampling and hypothesis testing	K4
CO3	Estimate the Correlation and Regression using formulas	K3
CO4	Describe the concept and theorems of Probability.	K2
CO5	Illustrate the types of time series and index numbers by using various methods.	K3

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I: CENTRAL TENDENCY AND DISPERSION   **(15 Hours)**

Meaning - Definition-Characteristics of typical Average-Arithmetic Mean - Geometric Mean – Harmonic Mean – Weighted Arithmetic Mean – Median – Mode — Mean Deviation – Standard Deviation-Comparison between Mean deviation and Standard Deviation.

(Self-Study: Median)

UNIT II: SAMPLING AND TESTING OF HYPOTHESIS   **(15 Hours)**

Sampling – Types of Sampling – Sampling Error – Testing of Hypothesis-Level of Significance, Critical Region-Standard Error -Test of Significance - Large Samples – Mean Test – χ^2 test – t-test – F-test – ANOVA – Association of Attributes.

(Self-Study: Sampling)

UNIT III: CORRELATION AND REGRESSION   **(15 Hours)**

Correlation – Types-Simple Correlation -Karl Pearson's Coefficient of Correlation-Partial Correlation – Multiple Correlations – Rank Correlation – Significance – Regression - Difference between Correlation

and Regression - Method of studying Regression – Simple Regression – Multiple Regression.

UNIT IV: PROBABILITY   **(15 Hours)**

Theorems of Probability – Addition Theorem – Multiplication Theorem – Bayes Theorem – Conditional Probability – Theoretical Distribution – Binomial, Poisson and Distributions - Normal Distribution - Importance of Normal Curve – Characteristics - Computation.

. UNIT V: INDEX NUMBER AND TIME SERIES   **(15 Hours)**

Index Number – Types of Index Number - Constructing Index Number – Laspeyre – Paasche – Bowley – Marshall - Fisher – Problems in Construction of Index Number – Uses and Limitations of Index Number - Time Series – Uses – Components – Methods – Moving Averages – Method of Least Square.

(Beyond the Curriculum: Consumer Price Index – Meaning – Need – Methods of Constructing CPI))

Note: Theory 40 % and Problem 60 %

TEXT BOOK:
1. Gupta S.P., (2018), Statistical Methods, (43rd Edition) S Chand & Sons, New Delhi.
2. Pillai R.S.N and Bhagavathi V, (2017) Statistical Theory and Practice, (8th Edition), S Chand & Sons, New Delhi

REFERENCE BOOKS:
1. Gupta C.B. and Vijay Gupta (2009), An Introduction to Statistical Methods, (23rd Edition), Vikas Publishing House, Noida, India.
2. Agarwal D.R, (2007), Statistics for Economists, (1st Edition), Vrinda Publications, New Delhi.
3. Aggarwal, B.M.and Sukhvir Singh (2016), Business Statistics, (3rd Edition), Ane Books Pvt Ltd., New Delhi.
4. Robert M.Leekeley, (2015), Applied Statistics for Business and Economics, (1st Indian Reprint), CRC Press, New York.
5. Arumugam and Isaac (2016), Statistics, (1st Edition), New Gamma Publishing House, New Delhi.

BLENDED LEARNING

UNIT V: Index Number and Time Series

S.No.	Topics	Links
1.	Index Number	*https://youtu.be/g0cN8OPpDy0*
2.	Methods of Moving Average	*https://youtu.be/CgebqU_I9tE* *https://youtu.be/VmOZ7_Fjn-s* *https://youtu.be/ADHMOBiBcFg*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	2	2	1	2	2	1	1	1	1	3	3
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CO3	2	1	2	3	3	1	2	3	1	1	1	1	1	3
CO4	2	1	2	2	2	1	2	3	1	1	1	1	1	2
CO5	2	1	2	2	2	1	2	3	1	1	1	1	1	2

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Case Study (Unit V)	Once in a Semester

Course Designed by: Dr.R.MEENAKSH	Verified by HOD: Dr.K.JAYANTHI
Checked by CDC: Dr.G.CHITRA	Approved by : **Principal**

SEMESTER: II

COURSE CODE: 23PEC2C09

TITLE OF THE COURSE: CORE - RESEARCH METHODOLOGY
(Skill Development)

COURSE OBJECTIVES
- To provide the basic knowledge on Research Methodology.
- To enable the students to adopt an appropriate Methodology in quality research.
- To familiarize the students with the art of using research methods and techniques.

COURSE OUTCOME

At the end of the course the students will be able to:

CO1	Acquire the knowledge on research methodology	K2
CO2	Gain knowledge of the concept of research problem and design.	K2
CO3	Understand the census and sample survey	K2
CO4	Identify the sources and different methods of data collection.	K3
CO5	Able to interpret the results and write a report.	K4

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I : RESEARCH METHODOLOGY   **(15 Hours)**

Meaning of Research - Objectives of Research – Types of Research - Research approaches - Research Methods – Significance of Research - Research Methods versus Research Methodology - Research Process – Criteria of Good Research - Problems encountered by Researchers in India.

(Self-Study: Types of Research)

UNIT II: RESEARCH PROBLEM AND DESIGN   **(15 Hours)**

Research Problem – Definition- Selecting the Problem- Techniques involved in defining a problem – Research Design – Meaning - Need for Research Design - Features of Good Design - Concepts Related to Research Design - Steps in preparing Research Design - A sample check list of Items for preparing a Research design.

UNIT III: SAMPLE SURVEY   **(15 Hours)**

Census and Sample Survey – Steps in Sampling Design - Criteria for selecting a Sampling Design - Characteristics of a Good Sample Design - Different Types of Sample Designs - Determination of Sample Size - Sampling Plan-Sampling Error - Non-Sampling Errors.

(Self-Study: Census and Sample Survey)

UNIT IV: DATA COLLECTION   **(15 Hours)**

Sources of Data: Primary and Secondary – Collection of Primary Data - Observation–Interview - Types of Interviews - Questionnaires - Types of Questionnaires - Guidelines for Designing a Good Questionnaire- Schedules – Difference between Questionnaires and Schedule - Sources of Secondary Data - Selection of Appropriate Method of Data Collection.

(Self-Study: Sources of Secondary Data)

UNIT V: INTERPRETATIONS AND REPORT WRITING   (15 Hours)

Interpretations: Meaning – Technique - Precautions – Report Writing - Significance of Report Writing - Steps in Writing Report - Layout of the Research Report – Types of Reports – Mechanics of Writing Research Reports.

(Beyond the Curriculum: Research Ethics)

TEXT BOOK:

1. Kothari C.R. (2019), Research Methodology Methods and Techniques, (4th Edition), New Age International Pvt. Ltd. Publishers, New Delhi.

REFERENCE BOOKS:

1. Paneerselvam R (2014) Research Methodology, (2nd Edition), Prentice Hall of India Pvt. Ltd, New Delhi.
2. Saravanavel P, (2013), Research Methodology, (1st Edition), Kitab Mahal Agencies, Allahabad.
3. Jai Narain Sharma & Ashu Pasricha (2017), Research Methodology, (2nd Edition), Regal Publication, New Delhi
4. Santhosh Gupta (2010), Research Methodology and Statistical Techniques, (1st Edition), Deep & Deep Publications, New Delhi.
5. Krishnaswami,O.R. and Ranganathan, M. (2016), Methodology of Research in Social Sciences, (1st Edition), Himalaya Publishing House, New Delhi.
6. Priyaranjan Dash, (2013), Research Methodology with SPSS, (1st Edition), Vrinda Publications Pvt.Ltd., New Delhi.

BLENDED LEARNING
UNIT IV: Data Collection
UNIT V: Interpretations and Report Writing

S.No.	Topics	Links
1.	Data Collection	*https://youtu.be/8hR5pZtoRXI*
2.	Report Writing	*https://youtu.be/Xp2PVO3do34*
3.	Writing Research Report	*https://www.youtube.com/watch?v=7MFNEyTXQAY* *https://www.youtube.com/watch?v=25SIYhVCA-M*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	1	1	1	1	2	3	1	1	1	1	2	2
CO2	1	1	1	1	2	1	1	3	1	1	2	1	1	2
CO3	2	1	2	2	2	1	2	3	1	1	1	1	2	2
CO4	2	1	2	-	2	3	2	3	2	1	3	1	2	3
CO5	3	1	1	1	1	1	1	3	2	1	3	2	2	3

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Model Report Writing (Unit V)	Once in a Semester

Course Designed by: Dr. R. MEENAKSHI	**Verified by HOD: Dr.K.JAYANTHI**
Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

SEMESTER: II

COURSE CODE: 23PEC2E01

TITLE OF THE COURSE: ELECTIVE - FOREIGN TRADE PROCEDURES AND DOCUMENTATION

(Skill Development & Employability)

COURSE OBJECTIVES

- To familiarize the students to understand the structure of foreign trade.
- To appraise them about the pre-shipment procedure and documentation in Export.
- To create knowledge on international business contracts.

COURSE OUTCOME

At the completion of the course the student will have the ability to

CO 1	Illustrate the structure of foreign trade.	K2
CO 2	Discuss the selection process in export markets.	K2
CO 3	Comprehend the pre shipment procedure.	K2
CO 4	Acquire knowledge on foreign trade documents.	K3
CO 5	Demonstrate the various uses of contracts in international business.	K3

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I STRUCTURE OF FOREIGN TRADE   (15 Hours)

Meaning of Foreign Trade - Foreign Trade Policy Structure - Classification of Goods - Elaborate Procedures and Documentation for Foreign Trade - Legal and Administrative Requirements: Custom, Excise, FEMA - Importer and Exporter Code Number and Registering Authorities - Export Promotion Councils / Commodity Boards.

UNIT II SELECTION OF EXPORT MARKET   (15 Hours)

Selecting Products for Export - Consideration – Impact of Foreign Trade Policy on Products Selection - Selecting Export Markets - Country Identification - Risk Assessment – Number of Countries for exports - Concluding Sound Exports Contract.

UNIT III PRE SHIPMENT PROCEDURE   (15 Hours)

Compulsory Pre-Shipment Inspection - Central Excise Clearance – Documents – Commercial Invoice – Packing List – Proforma Invoice – Airway Bill – Generic Certificate of Origin – Dangerous Goods Certificate – Insurance Certificate – Shipper's Letter of Instruction.

UNIT IV FOREIGN TRADE DOCUMENT   (15 Hours)

Foreign Trade documents: Transport documents, Commercial documents – Principal Export Document – Auxiliary Export Documents – Regulatory Documents – Characteristics and Uses of Various Documents - Negotiation of Documents - Marine Insurance – Generalized System of Preference (GSP).

(Self-Study: Marine Insurance)

UNIT V INTERNATIONAL BUSINESS CONTRACTS   (15 Hours)

Distinction between Domestic Sales Contracts and Export Contracts – Constructed Contracts – INCOTERMS – Types of Contracts – Elements in Export Contracts – Legal Dimensions relating to Export – Import Contracts – Disputes Settlements - Basic Advantages of Arbitration.

TEXT BOOKS:

1. C. Rama Gopal (2006 / Reprint Jan 2016) Export Import Procedures - Documentation and Logistics, New Age International Publishers, New Delhi

2. M. L. Mahajan, (2015), Export Policy Procedures& Documentation, 26th Edition, Snow white Publications, Mumbai.

REFERENCE BOOKS:

1. R. K. Jain's, (2017), Foreign Trade Policy & Handbook of Procedures (With Forms, Circulars & Public Notices), (24th Edition), Centex Publication, New Delhi.

2. Francis Cherunilam, (2017), International Trade and Export Management, (20th Edition), Himalaya Publishing House, Mumbai.

3. Dr. C. Jeevanandam, (2012), International Trade Policy, Practices, Procedures and Documentation, (1st Edition), Sultan Chand Publications, New Delhi.

4. Senthilvelmurugan & Mahalakshmi S. (2013), Export and import Documentation and Procedures, MJP Printers, Chennai.

BLENDED LEARNING

UNIT IV Foreign Trade Document

UNIT V International Business Contracts

S.No.	Topic	Links
1.	Foreign Trade Documents	*https://youtu.be/6P6wFmBdF8Y*
2.	International Business Contracts	*https://youtu.be/z9I5E0UM0OA*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
CO2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
CO3	2	1	1	1	1	1	2	1	2	1	1	1	1	1
CO4	2	1	1	1	1	1	3	1	2	1	1	1	1	1
CO5	2	1	1	1	1	1	2	1	1	1	1	1	1	1

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester

4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	Case Study (Unit V)	Once in a Semester

Course Designed by: Dr.R.ANBUSELVI	Verified by HOD: Dr.K.JAYANTHI
Checked by CDC: Dr.G.CHITRA	Approved by : **Principal**

SEMESTER: II

COURSE CODE: 23PEC2E02

TITLE OF THE COURSE: ELECTIVE - MANAGERIAL ECONOMICS

(Skill Development)

COURSE OBJECTIVES
- To impart a general understanding of the economic system as well as in business.
- Analyze operations of business decision making and economic analysis.

COURSE OUTCOME

At the completion of the course the student will have the ability to

CO 1	Apply basic concepts of economics in decision making process	K3
CO 2	Gain knowledge related to demand forecasting and cost control	K2
CO 3	Analyse the various policies and methods of pricing a product	K4
CO 4	Understand the concepts related to profit management	K2
CO 5	Assess the capital budgeting of a business organization	K4

Syllabus

Credit: 5   **Institutional hours: 75**

UNIT I MANAGERIAL ECONOMICS   (15 Hours)

Managerial Economics – Definition– Nature of Managerial Economics - Scope of Managerial Economics - Economic Concepts in Managerial Economics - Managerial Economist - Managerial Decision-Making Process – Role and Responsibilities of Managerial Economist

(Self-Study: Economic Concepts in Managerial Economics)

UNIT II DEMAND & COST ANALYSIS   (15 Hours)

Demand Forecasting – Demand Distinction – Purpose of Demand Forecasting - Methods of Demand Forecasting – Criteria of Good Forecasting Method – Cost Analysis – Cost Determinants – Cost Control – Tools of Cost Control – Cost Reduction – Factors Hampering Cost Control in India

UNIT III PRICING POLICIES & METHODS   (15 Hours)

Pricing Policies – Considerations included in pricing policies - Objectives of Pricing Policy - Role of Cost in pricing – Demand factor in pricing – Consumer Psychology and Pricing – Pricing Methods: Cost Oriented – Competition Oriented – Pricing Strategies

(Self-Study: Objectives of Pricing Policy)

UNIT IV PROFIT MANAGEMENT   (15 Hours)

Profit Policies – Profit Maximization – Alternative Profit Policies – Aims of Profit Policy – Theory of Business Behaviour and Objectives of the firm – Profit Planning and Forecasting – Break Even Analysis – Profit Forecasting

UNIT V CAPITAL MANAGEMENT   (15 Hours)

Capital Budgeting – Objectives of Capital Budgeting – Need of Capital Budgeting – Nature of Capital Budgeting – Determining the size of Capital Budget – Methods of Apprising Profitability – Pay Back Method – Accounting Rate of Return – Internal Rate of Return – Net Present Value Index Method.

TEXT BOOKS:
1. Sankaran S, (2019) Business Economics (4th Edition), Margham Publication, Chennai.
2. Varshney R.L and Maheswari K.L (2018) Managerial Economics, (4th Edition), Sultan Chand & Sons, Mumbai.

REFERENCE BOOKS
1. Lila J Truett and Dale B Truett, (2013) Managerial Economics: Analysis, Problems, Cases. (8th Edition), Willey and Sons, Delhi.
2. Deepashree (2015) Managerial Economics (1st Edition) Ane Books Private Limited, New Delhi
3. Jhingan.ML and Stephen.JK, (2015) Managerial Economics (2nd Edition), Vrindha Publications, Mumbai.
4. Ahuja H L (2017) Managerial Economics (9th Edition) S. Chand & Sons, New Delhi
5. Diwedi D N (2011) Managerial Economics (1st Edition) Vikas Publishing House, Nodia

BLENDED LEARNING

UNIT IV Profit Management

S.No.	Topics	Links
1.	Profit policy	*https://www.youtube.com/watch?v=HvGWaPzlnPQ*
2.	Profit maximization	*https://www.youtube.com/watch?v=5Hrq7LbCiF8*
3.	Alternative price policies	*https://www.youtube.com/watch?v=At2KYlZvhdU*
4.	Aims of profit policy	*https://www.youtube.com/watch?v=AZr_038EMsU*
5.	Theory of business behavior and objectives of the firm-	*https://www.youtube.com/watch?v=KN9_0-CWO2k* *https://www.youtube.com/watch?v=dDHU_SWLVD4*
6.	Profit planning and forecasting	*https://www.youtube.com/watch?v=tskPCnuRpIE*
7.	Break even analysis	*https://www.youtube.com/watch?v=rn2KV9DkQ2g*
8.	Profit forecasting	*https://www.youtube.com/watch?v=98K7AG32qv8*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	2	2	2	1	1	1	1	1	1	1	1	2	2	1
CO2	2	1	2	1	2	1	1	2	1	1	2	2	1	1
CO3	1	1	1	2	2	1	1	2	1	2	2	2	2	2
CO4	2	1	2	2	2	1	1	2	1	2	2	2	1	1
CO5	2	1	1	1	2	1	1	1	1	1	1	2	2	2

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Seminar (Units III & IV)	Twice in a Semester
7.	PPT (Unit V)	Once in a Semester

Course Designed by: Dr.R.ANBUSELVI	Verified by HOD: Dr.K.JAYANTHI

Checked by CDC: Dr.G.CHITRA	**Approved by :** **Principal**

SEMESTER: III

COURSE CODE: 23PEC3C10

TITLE OF THE COURSE: CORE - MACRO ECONOMIC ANALYSIS

COURSE OBJECTIVES:

- To facilitate the students to understand the circular flow of income and measurement of national income.
- To familiarize the students with employment, consumption and investment functions.
- To enable the students to understand theories of trade cycle and Philips Curve.

COURSE OUTCOME:

At the end of the course the students will be able to:

CO1	Analyse the Classical and Keynesian economic theories of income and employment.	K4
CO2	Outline the theories of Consumption and investment functions.	K2
CO3	Understand the working of Multiplier and Acceleration	K2
CO4	Acquire the knowledge of Business Cycle and Philips Curve.	K3
CO5	Analyse IS-LM models and its relative effectiveness of monetary and fiscal policies.	K4

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I: THEORIES OF OUTPUT AND EMPLOYMENT (K4)   (15 Hours)

Classical Theory of Employment – Say's Law of Market: Propositions and Implications

of the Law – Criticisms of Says Law – Keynes Criticism of Classical Theory - Keynesian Theory of Income, Output and Employment – Principles of Effective Demand - Aggregate Demand - Aggregate Supply.

UNIT II: CONSUMPTION AND INVESTMENT FUNCTION (K2)   (15 Hours)

Consumption Function – Theories of Consumption - Keynes Psychological Law of Consumption –Absolute Income Hypothesis – Relative Income Hypothesis - Permanent Income Hypothesis – Life Cycle Hypothesis –– Investment Function – Theories of Investment - Naive Accelerator Theory – Profit Theory of Investment Tobin's Theory of Investment

(Beyond the Curriculum: Rational Expectations Hypothesis)

UNIT III: MULTIPLIER AND ACCELERATOR (K2)   (15 Hours)

Concept of Multiplier – Types of Multiplier – Investment Multiplier – Working - Assumptions – Leakages – Criticism - Importance – Dynamic Multiplier – Foreign Trade Multiplier – Working and Criticism of Foreign Trade Multiplier - Super Multiplier – Working - Principle of Acceleration – Operation of Acceleration – Criticism of Acceleration

UNIT IV: BUSINESS CYCLE AND PHILLIPS CURVE (K3)   (15 Hours)

Business Cycle – Phases of Business Cycle – Theories of Business Cycle: Pure Monetary Theory – Monetary Over-Investment Theory – Schumpeter's Theory of Innovation – Keynes Theory – Samuelson's Model of Multiplier Accelerator interaction – Hick's Theory - The Phillips Curve.

(Self-Study: Schumpeter's Theory of Innovation)

UNIT V: IS-LM MODEL (K4)   (15 Hours)

IS-LM Model – General Equilibrium - Extension of IS-LM Model with Government Sector – Effects of changes in Monetary Policy - Effects of changes in Fiscal Policy - Relative Effectiveness of Monetary and Fiscal Policies – Monetary-Fiscal Mix- Mundell-Fleming Open Economy Model

TEXT BOOK:

1. Jhingan M.L., *Macro Economic Theory*, (13th Edition), Vrinda Publications, New Delhi. (2018).

REFERENCE BOOKS:

1. Ahuja H.L., *Macro Economics Theory and Policy*, (20th Edition), S.Chand & Company Ltd, New Delhi, (2020)

2. Vaish M.C., *Macro Economic Theory*, (14th Edition), Vikas Publishing House, New Delhi. (2019).

3. Divedi D N., *Macro Economics Theory and Policy*, (4th Edition), Tata McGraw-Hill Publishing Company Limited, New Delhi. (2015).

4. Debes Mukherjee, *Macro Economics*, (1st Edition), New Central Book Agency, New Delhi. (2010).

5. Chandana Ghosh and Ambar Ghosh, *Macro Economics*, (2nd Edition) PHI Learning Pvt. Ltd., Delhi, (2021)

BLENDED LEARNING
UNIT IV: BUSINESS CYCLE AND PHILLIPS CURVE,
UNIT V: IS-LM MODEL

S.No	Topics	Links
1.	Business Cycle	*https://youtu.be/9nsa6zxhb18*
2.	Philips Curve	*https://youtu.be/Rkxzc1cXi64*
3.	Goods Market	*https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11*
4.	LM Curve	*https://youtu.be/RorkQ0Nj_3s*
5.	Money Market	*https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11*
6.	IS Curve	*https://youtu.be/f3f-mFxaq1E*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	1	1	2	1	1	1	2	2	2	2
CO2	3	2	2	2	3	2	2	2	1	1	2	3	3	2
CO3	3	2	2	2	1	1	2	1	1	1	1	2	2	1
CO4	3	3	3	2	3	3	2	3	2	1	1	3	3	2
CO5	3	2	2	2	1	1	2	2	1	1	1	2	2	1

(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Seminar (V Unit)	Once in a Semester

Course Designed by: Dr.K.Jayanthi	Verified by HOD: Dr.K.Jayanthi
Checked by CDC: Dr.S.Jaculin Arockia Selvi	Approved by: **Principal**

MEMBERS OF BOARD OF STUDIES

S. Lanthini	*K. Shobha*	*Sanjay*	*signature*
Dr.S.Gandhimathi, Professor of Economics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 43	Dr.K.Shobha Associate Professor & Head, PG & Research Department of Economics, Government Arts College, Coimbatore – 18	Mr.Sanjay Kondaas Automation Pvt Ltd, 5B, Sri Kamarajar Road, Alamelu Nagar, Coimbatore – 15	Dr. Vennila Gopal Associate Professor in Economics, Dr.N.G.P Arts and Science College, Coimbatore – 35

COURSE CODE: 23PEC3C11

TITLE OF THE COURSE: CORE - ENVIRONMENTAL ISSUES AND POLICIES

COURSE OBJECTIVES:

- To familiarize the concepts pertaining to environmental economics
- To enable the students to relate theories in allocation of resources
- To create awareness on conservation of natural resources for sustainable development

COURSE OUTCOMES:

At the end of the course the students will be able to:

CO1	Acquire knowledge on linkage between environmental and the economy	K2
CO2	Analysis the Environmental Theories of Resource Allocation	K4
CO3	Identifies the environmental pollution & suitable policy approach to control environmental degradation	K2
CO4	Summarises the environmental resources and its conservation	K4
CO5	Outlines the importance of imparting environmental education	K4

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I ENVIRONMENTAL ECONOMICS   **(K2)**   **(15 Hours)**

Environmental Economics - Definition - Nature and Scope of Environmental Economics - Environment - Definition – Ecological Economics – Nature of Ecological Economics - Relationship between Environment and the Economy - Material Balance Model.

UNIT II ENVIRONMENTAL RESOURCES   **(K4)**   **(15 Hours)**

Environmental Resources - Kinds of Resources – Renewable and Non-Renewable Resources – Conservation of Resources - Meaning – Objectives of Conservation - Methods of Conservation of Natural Resources - Conservation of Renewable and Non-Renewable Resources

(Self-Study: Renewable and Non-Renewable Resources)

UNIT III RESOURCE ALLOCATION   **(K2)**   **(15 Hours)**

Theory of Resource Allocation – Externalities - Market Failures and Externalities – Meaning- Kinds of Externalities - Solutions for Eternality - Pareto Efficiency – Simon Kuznets's inverted 'U' Curve - Hypothesis – Coase Theorem.

UNIT IV ENVIRONMENTAL POLLUTION   **(K4)**   **(15 Hours)**

Environmental Pollution – Sources of Pollution – Types - Water Pollution - Sources - Effects and Control of Water pollution – Air Pollution - Sources - Effects and Control of Air pollution - Noise pollution – Sources - Effects and Control of Noise pollution -

Marine Pollution – Sources - Effects and Control of Marine Pollution - Thermal Pollutions – Sources - Effects and Control of Thermal Pollutions - Nuclear Hazards.
(Self-Study: Sources of Pollution)

UNIT V ENVIRONMENTAL EDUCATION AND DISASTER MANAGEMENT (K4)
(15 Hours)

Environmental Education - Aims (UNESCO) and Objectives – Guiding Principles- Formal and Non-Formal Education - Importance – Public Awareness - Mass Media - Disaster Management - Disaster Hazards – Drought – Floods –Tsunami – Cyclone - Earth Quakes - Management of Disasters*.*
(Beyond the Curriculum: Environmental Impact Assessment)

TEXT BOOK

1. Jhingan M. L., *Environmental Economics: Theory, Management and Policy,* (2nd Edition), Vrindha Publication, Delhi. (2013).

REFERENCE BOOKS

1. Thampapillai J Dodo and Matthias Ruth. *Environmental Economics: Concepts, Methods and Policies*, (1st Edition), Routledge Publishers, England, U K. (2019),
2. Karpagam M, *Environmental Economics,* (4thEdition) Sterling Publisher Private Limited, New Delhi. (2010)
3. Dr. S. Sankran, *Environmental Economics*, (3rd Edition) Margham Publications, Chennai. (2012).
4. Subhashini Muthukrishnan, *Economics of Environment*, (2nd Edition). PHI Learning Private Limited, Delhi. (2015).

BLENDED LEARNING

UNIT IV ENVIRONMENTAL POLLUTION

S.No.	Topics	Links
1.	Environmental Pollution	*https://www.youtube.com/watch?v=vP3pbh_-pu8*
2.	Sources	*https://www.youtube.com/watch?v=sW7fxGG9cEM*
3.	Pollutions	*https://www.slideshare.net/SVSELEARNING/pollutionppt https://www.learnpick.in/prime/documents/ppts/details/458/ pollution*

MAPPING OF COs WITH POs AND PSOs

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CO2	2	1	2	2	1	1	2	1	1	3	2	3	1	1
CO3	3	1	1	1	1	1	2	1	1	2	1	1	2	1
CO4	2	1	2	2	1	1	1	1	2	2	1	2	1	2
CO5	3	1	2	2	1	2	3	2	3	3	2	3	2	1
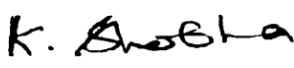
(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Group Discussion (V Unit)	Once in a Semester

Course Designed by: Dr.J.Jacintha Maria Florence	Verified by HOD: Dr.K.Jayanthi
Checked by CDC: Dr.S.Jaculin Arockia Selvi	Approved by: **Principal**

MEMBERS OF BOARD OF STUDIES

Dr.S.Gandhimathi, Professor of Economics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 43	Dr.K.Shobha Associate Professor & Head, PG & Research Department of Economics, Government Arts College, Coimbatore – 18	Mr.Sanjay Kondaas Automation Pvt Ltd, 5B, Sri Kamarajar Road, Alamelu Nagar, Coimbatore – 15	Dr. Vennila Gopal Associate Professor in Economics, Dr.N.G.P Arts and Science College, Coimbatore – 35

TITLE OF THE COURSE: CORE - ECONOMETRICS

(Employability)

COURSE OBJECTIVES:
- To understand the estimation techniques.
- To know the difficulties involved in the estimation process and to understand scientific decision-making process.

COURSE OUTCOMES:

At the end of the course the student will be able to:

CO1	Acquire the knowledge of econometrics methods.	K2
CO2	Explains about Econometrics Problems.	K2
CO3	Demonstrates the knowledge of Time Series Analysis.	K2
CO4	Discuss the concept of Dummy Variable.	K2
CO5	Predict the variables using Statistical tools like Autocorrelation and Multicollinearity.	K4

Syllabus

Credits: 4 **Instructional Hours: 75**

UNIT I: ECONOMETRICS **(K2)** **(15 Hours)**

Definition of Econometrics - Nature and Scope of Econometrics - Goals of Econometrics - Methodology of Econometric Research - Uses of Econometric Models and Methods - Types of Econometrics – Mathematical Models Vs Econometric Models.

(Self-Study: Goals of Econometrics)

UNIT II DUMMY VARIABLES **(K2)** **(15 Hours)**

Nature of Dummy Variables – ANOVA Model – Dummy Variable Alternative to Chow Test – Interaction Effects using Dummy Variables – Use of Dummy Variables in Seasonal Analysis - Time Series - Cross Sectional Data.

UNIT III SIMPLE LINEAR REGRESSION MODEL **(K2)** **(15 Hours)**

Assumptions of OLS Estimator - Test of Goodness of fit with R^2 – Test of Significance of the parameter estimates- Construction of Confidence interval- Testing the overall significance of a regression using ANOVA- Desirable Properties of the Least Square Estimators.

(*Self-Study: Assumptions of OLS Estimator)*

UNIT IV MULTIPLE REGRESSION MODEL **(K2)** **(15 Hours)**

Definition of Multiple Regression Model - Assumptions of Multiple Regression Model - Specification - Interpretation of a Multiple Regression Model – Estimation using OLS method - Test of Significance of Regression Co-efficient – Estimation and Interpretation of 'R2'and ' F' Statistics.

(Beyond the Curriculum: Multi Linear Regression Analysis)

UNIT V FORECASTING   (K4)   (15 Hours)

Nature of Forecasting – Econometric approach to Forecasting – Policy Evaluation using an Econometric Model - Forecasting with a Single – Equation Linear Regression Model - Testing the difference between a Single Prediction and Realization.

TEXT BOOK

1. Madnani, G.M.K., *Introduction to Econometrics, Principles and Applications*, (8th Edition), Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi. (2020).

REFERENCE BOOKS

1. Koutsoyiannis. A, *Theory of Econometrics*, (2nd Edition), Mac Millian, London. (2004).

2. Willaim H Greene. *Econometric Analysis*, (2nd Edition), Pearson Education Limited, Noida. (2019).

3. Damodar Gujarati, and Dawn Porter, *Basic Econometrics*, (5th Edition), McGraw Hill, New Delhi. (2011).

4. Dhanasekaran K, *Econometrics*, (2nd Edition), Vrinda Publications Pvt Ltd., Delhi. (2014).

5. Jhumur Sengupta, *Introduction to Econometrics*, (1st Edition), Sultan Chand and Sons, New Delhi, (2023).

BLENDED LEARNING
UNIT IV MULTIPLE REGRESSION MODEL AND
UNIT V FORECASTING

S.No	Topics	Links
1.	Multiple Regression Model	*https://youtu.be/dQNpSa-bq4M*
2.	F' Statistics	*https://youtu.be/Xg8_iSkJpAE*
3.	Forecasting	*https://youtu.be/rkujz0c4XX8*
4.	Linear Regression Model	*https://youtu.be/ZaxpCw6lCe4*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	1	1	1	1	1	1	1	1	3	2	1
CO2	2	3	2	2	3	1	1	1	2	2	2	2	3	1
CO3	3	3	1	2	3	1	1	1	2	1	1	2	2	2
CO4	1	1	1	2	1	1	1	1	1	2	1	1	3	1
CO5	2	3	2	1	3	1	1	1	2	2	1	1	3	1
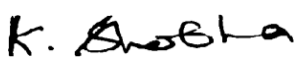
(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Report Writing (V Unit)	Once in a Semester

Course designed by: Dr. R. Uma	**Verified by HOD: Dr.K.Jayanthi**
Checked by CDC: Dr.S.Jaculin Arockia Selvi	**Approved by :** **Principal**

MEMBERS OF BOARD OF STUDIES

Dr.S.Gandhimathi, Professor of Economics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 43	Dr.K.Shobha Associate Professor & Head, PG & Research Department of Economics, Government Arts College, Coimbatore – 18	Mr.Sanjay Kondaas Automation Pvt Ltd, 5B, Sri Kamarajar Road, Alamelu Nagar, Coimbatore – 15	Dr. Vennila Gopal Associate Professor in Economics, Dr.N.G.P Arts and Science College, Coimbatore – 35

COURSE CODE: 23PEC4C13

TITLE OF THE COURSE: CORE - COMPUTER APPLICATIONS IN ECONOMICS

(*Employability & Skill Development*)

COURSE OBJECTIVES:

- To enable the students to acquire knowledge and skill to use computers for research.
- To enable students to conduct statistical estimation and hypothesis testing with statistical software.

COURSE OUTCOMES:

At the completion of the course the student will have the ability to

CO1	Equip the students with the skills on MS Word.	K3
CO2	Enable the students to acquire Microsoft Excel.	K3
CO3	Apply the tools of MS Power Point.	K3
CO4	Apply statistical concepts and analytical skills to analyse real-world economic and business issues.	K3
CO5	Analyze business and economic data with statistical software and report the results	K4

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I MS-WORD (K3)   **(15 Hours)**

Features of MS Word – Creating - Saving and Opening a Document – Formatting a Paragraph – Font - Editing a Document - Page Setup- Inserting Table - Merging and Splitting Cells - Inserting Header and Footer - Inserting Page Number – Borders – Pictures – Symbols - Mail Merge

(Self-Study: Inserting Header and Footer)

UNIT II: MS-EXCEL (K3)   **(15 Hours)**

Basics of MS Excel - Creating, Opening, Saving and Closing Worksheet - Elements of Workbook - Entering Data - Formatting Worksheet - Font, Alignment - Format Cells- Creating Charts.

UNIT III: MS-POWERPOINT (K3)   **(15 Hours)**

Start Power Point - Creating Slides - Adding New Slides - Adding Text Box - Format Text - Working with Graphs - Creating Charts - Add Data - Delete Data - Working with Picture or Clip Art - Inserting Sound and Video - Design Template - Animating Text - Slide Transitions - Viewing Slide Show.

(Self-Study: Animating Text)

UNIT IV APPLICATIONS OF EXCEL IN STATISTICS (K3)   **(15 Hours)**

Calculation Operators – Mean – Median – Mode - Standard Deviations - Coefficient of Variance Correlation - Spearman's Rank Correlation - Chi-Square - Compound Growth Rate- Annual Growth Rate – Forecasting

UNIT V: STATISTICAL PACKAGE FOR DATA ANALYSIS (K4)   (15 Hours)

Overview of Statistical Package for Social Science - Creating New Data File – Opening a Data File – Data Entry – Insert Rows – Insert Columns – Editing Data – Assigning Variable Names and Value Labels – Merging Data Files: Adding Cases – Add Variables – Frequency - Descriptive Statistics.

(Beyond the Curriculum: Data Analysis using SPSS)

TEXT BOOKS:

1. Sudalaimuthu S and Anthony Raj S, Computer Application in Business, (4thEdition), Himalaya Publishing House, Mumbai. (2010)
2. Parameswaran.R, Computer Application in Business, (7th Edition), S Chand & Co, New Delhi. (2008)

REFERENCE BOOKS:

1. Abhishek Yadava, Kajal Rana and Arya.S. *Computer Applications in Management*, (1st Edition), Global Academic Publishers & Distributors, New Delhi. (2011),
2. Nellaikannan R., *Working with MS Office*, (3rd Edition), NELS Publishers, Tirunelveli. (2004),
3. Ananthi Sheshasaayee and Sheshasaayee,, *Computer Applications in Business and Management*, (1st Edition), Margham Publications, Chennai. (2013).
4. Dhanasekaran K, *Computer Applications in Economics*, (1st Edition), Vrinda Publications Pvt Ltd, Delhi. (2010),
5. Damodar N. Gujarati*, Econometrics by Example*, (2nd Edition) Palgrave MacMillan Limited, United Kingdom. (2015),

BLENDED LEARNINGUNIT II: MS-EXCEL

S.No	Topics	Links
1.	MS-Excel	*https://www.youtube.com/watch?v=bAthNS3e1d4*
2.	Elements of workbook	*https://www.youtube.com/watch?v=bAthNS3e1d4* *https://www.youtube.com/watch?v=gJPNFkyHOFI*
3.	Entering data	*https://www.youtube.com/watch?v=dy3W9-oaUH8*
4.	Formatting worksheet in excel worksheet	*https://www.youtube.com/watch?v=wyEW5EGj0Lo*
5.	Formatting cells	*https://www.youtube.com/watch?v=XqBboOMs4Zg*
6.	Creating charts	*https://www.youtube.com/watch?v=Z2gzLYaQatQ* *https://www.youtube.com/watch?v=JWcusqZDfZs*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	2	2	1	1	2	1	1	1	2	2	1
CO2	3	1	1	1	3	1	1	2	1	1	1	2	1	2
CO3	2	1	1	1	1	1	1	2	1	1	1	2	1	2
CO4	2	1	1	2	3	1	1	3	3	1	1	2	2	3
CO5	3	2	1	3	3	1	1	3	3	1	1	2	1	3

 (Correlation: 3 – High, 2 – Medium, 1 –

 Low)ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Survey Report (V Unit)	Once in a Semester

Course designed by: Dr.R.Meenakshi	Verified by HOD: Dr.K.Jayanthi
Checked by CDC: Dr.S.Jaculin Arockia Selvi	Approved by : **Principal**

MEMBERS OF BOARD OF STUDIES

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COURSE CODE: 23PEC3E01

TITLE OF THE COURSE: ELECTIVE-ECONOMICS OF INFRASTRUCTURE

COURSE OBJECTIVES:

- To familiarize the students with Structure and role of infrastructure in economic development.
- To impart knowledge on growth and key issues in Physical, Economic and Social Infrastructure.
- To highlight various Policies and Programmes for Infrastructural Developments.

COURSE OUTCOMES:

At the completion of the course the student will be able to

CO1	Identify the key concepts and role of infrastructure sector.	K2
CO2	Understand the strengthen of Physical infrastructure in the process of development	K2
CO3	Describe the major components of Economic Infrastructure.	K2
CO4	Discuss and analyze the Health and Educational Sector	K2
CO5	Analyse different government policies, regulation and reforms framed for infrastructure sector.	K4

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I INFRASTRUCTURE SECTOR (K2)   **(15 Hours)**

Infrastructure – Physical, Economic and Social Infrastructure - Infrastructure as a Public Good - The Peak Load, Off - Load Problem - Role of Infrastructure in Economic Development - Infrastructure in Indian Economy - Issues and Policies in Financing of Infrastructure.

(Self-Study: Infrastructure in Indian Economy)

UNIT II PHYSICAL INFRASTRUCTURE (K2)   **(15 Hours)**

Transportation: Railways, Roadways, Airways and Waterways: Progress, Pricing-Technological Advancement and Challenges- New policies/programmes related to each mode of transportation- Communication: Tele-density, Mobile and Internet, Social Media; Growth of IT-ITES.

UNIT III ECONOMIC INFRASTRUCTURE (K2)   **(15 hours)**

Energy, Electricity and Special Economic/Investment Zones: Power Generation, Distribution and Pricing; Privatization of Electricity-Coverage; Alternative (Renewable and Unconventional) Sources of Energy, including Nuclear, Solar and Wind Energy-Energy Conservation-Problems and Potential of SEZs-Export Processing Zones (EPZs) and Special Investment Region (SIR) - Banking and Financial Services: Spread

and Performance of Banking Services- Technology Interface of Financial Services-
Financial Inclusion Initiatives.

UNIT IV SOCIAL INFRASTRUCTURE   (K2)   (15 hours)

Health Services: Medical Facilities Issues in Privatization of Health Services - State
and Provision of Health; Centrally Sponsored Schemes in Health- Education: Concept
and Scope of Human Resource Development-Education and Economic Growth:
Progress on Universalization of Primary Education-Performance of Secondary,
Technical, Professional and Higher Education- Right to Education and Discrimination.
(Self-Study: Right to Education and Discrimination)

UNIT V PROGRAMMES INFRASTRUCTURE DEVELOPMENT (K4)   (15 hours)

Provision of Urban Amenities in Rural Areas (PURA) – Pradhan Mantri Gram Mantri
Sadak Yojana (PMGSY) - Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)-
Reviving Water Harvesting Systems and Watershed- Swachh Bharat Mission (Rural
and Urban)- Smart City - Key Components, Performance and Challenges

TEXT BOOK:
1. Gopala Krishna Murthy, *Infrastructure Financing*, SBS Publishers and Distributors Pvt
   Ltd, New Delhi. (2010),
2. Nand Dhameja and Sarika Dhameja, *Infrastructure Development and Financing*, Viva
   Books, Bangalore. (2016),

REFERENCE BOOKS
1. Barun Kumar D E, *Economics of Infrastructure*, Vrinda Publication, New Delhi.
   (2015).
2. Anu Kapil, *Infrastructure and Economic Development*, Deep & Deep Publications ,
   New Delhi. (2010).
3. Goel, M.M. *Economics of Human Resource Management in India*, VK Global
   Publications, New Delhi. (2011).
4. Dash L N., *Economics of Infrastructure: Growth and Development*, Regal Publications,
   New Delhi (2007).

BLENDED LEARNING
UNIT V PROGRAMMES INFRASTRUCTURE DEVELOPMENT

S.NO.	Topics	Links
1	Provision of Urban Amenities in Rural Areas (PURA)	*https://youtu.be/br0DxXMm2Oo*
2	PMGSY (Pradhan Mantri Gram Mantri Sadak Yojana)	*https://youtu.be/OaVuCx-oDpl*
3	Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)	*https://youtu.be/B1ysBM42mTw*
4	Reviving Water Harvesting Systems and Watershed	*https://youtu.be/zuXN_Lor_3g*
5	Swachh Bharat Mission (Rural and Urban)	*https://youtu.be/jxl4rEAt0N8*
6	Smart City	*https://youtu.be/-16QNVomYf4*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	2	1	1	3	3	1	1	1	1	1	1
CO2	2	1	2	1	2	2	2	1	1	1	1	1	1	1
CO3	2	1	2	1	2	2	2	1	1	3	1	1	1	2
CO4	2	1	2	1	1	1	2	2	1	3	2	2	1	3
CO5	2	1	2	1	1	1	2	2	1	3	3	2	1	3

Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Review Report (V Unit)	Once in a Semester

Course Designed by: Dr. R.Meenakshi	Verified by HOD: Dr.K.Jayanthi
Checked by CDC: Dr.S.Jaculin Arockia Selvi	Approved by : **Principal**

MEMBERS OF BOARD OF STUDIES

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COURSE CODE: 23PECE3E02

TITLE OF THE COURSE: ELECTIVE - MANAGEMENT OF MICRO, SMALL AND MEDIUM ENTERPRISES

(Entrepreneurship)

COURSE OBJECTIVES:

- To motivate students towards entrepreneurship and promote awareness on the scope as well as benefits of entrepreneurial activities
- To provide the basic understanding of MSME, setting up MSME and institutional support system for the development of MSME in India

COURSE OUTCOMES:

At the end of the course the students will be able to:

CO1	Familiarize with the role and problems of Micro, Small and Medium Enterprises	K2
CO2	Acquire knowledge on the procedure involved in setting up MSME	K2
CO3	Discuss the various sources of institutional finance to MSME	K2
CO4	Outline the government schemes supporting MSME	K4
CO5	Acquire knowledge on Women in MSME Sector and the funding women Entrepreneurship in India	K2

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I MICRO, SMALL AND MEDIUM ENTERPRISES (MSMEs) (K2) (15 Hours)

Evolution - Definition of MSMEs - Characteristics of MSMEs – Need for MSME - Role of MSMEs in Economic Development – Performance of MSME - Problems of MSMEs – Challenges and opportunities of MSMEs.

(Self-Study: Problems of MSMEs)

UNIT II SETTING UP MSMEs   **(K2)**   **(15 Hours)**

Preparation of Project Report – Form of Ownership – Location – Procurement of land – Registration - Obtaining Loan – Apply of Subsidy – Place order for Machinery – Arrange for Power Connection – Insurance – Government Clearances – Procurement of Raw material – Recruitment and Training of Staff – Establish Product Distribution Network – Trial Runs – Commencement of Commercial Production

UNIT III FINANCING MSMEs   **(K2)**   **(15 Hours)**

Institutional finance to MSMEs - Small Industries Development Organization (SIDO) - National Institute for Entrepreneurship and Small Business Development (NIESBUD) – National Small Industries Corporation (NSIC) - Directorate of Industries - District Industries Centre (DICs) - State Industrial Development Corporation (SIDC) – Small Industries Development Bank of India (SIDBI)

UNIT IV SCHEMES FOR MSMEs   **(K4)**   **(15 Hours)**

Entrepreneurship and Skill Development Programs (ESDP) - A Scheme for promoting Innovation, Rural Industry and Entrepreneurship (ASPIRE) – Revamped Scheme of Fund for Regeneration of Traditional Industries (SFURTI) - Micro and Small Enterprises Cluster Development (MSE-CDP) – Scheme of Information, Education and Communication (SIEC) – **SAMARTH Udyog Bharat 4.0 (Industry 4.0)**

UNIT V WOMEN AND MSMEs   **(K2)**   **(15 Hours)**

Women Entrepreneurs – Role of Women in MSMEs - Gender Issues in the Micro, Small, and Medium Enterprise – Challenges of Women Entrepreneurs - Opportunities for women in the MSME sector - MSME Funding to Women Entrepreneurs - Trade-Related Entrepreneurship Assistance and Development Scheme (TREAD)
(Self-Study: Challenges of Women Entrepreneurs)

TEXT BOOKS
1. Vasanth Desai, *Management of A Small-Scale Industry*, (3rd Edition) Himalaya Publishing House, New Delhi, (2013)
2. Indian Institute of Banking and Finance, Micro, Small and Medium Enterprises in India, (2017)

REFERENCE BOOKS
1. Gordon and Natarajan K., *Entrepreneurship Development*, (5th Edition) Himalaya Publishing House, New Delhi, (2015)
2. Khanka, S.S. *Entrepreneurial Development* (4th Edition) S.Chand and Company Private. Ltd. New Delhi. (2015)
3. Monica Loss, and Bascunan, F.L. *Entrepreneurship Development*, (2nd Edition) Global Academic Publishers and Distributors, New Delhi. (2015).
4. Gupta, C.B. and Srinivasan, N.P. *Entrepreneurship Development in India*, (4th Edition) Sultan Chand and Sons, New Delhi. (2005).

BLENDED LEARNING
UNIT IV SCHEMES FOR MSMES

S.No	Topics	Links
1.	ESDP	*https://msme.gov.in/node/1767*
2.	ASPIRE	*https://msme.gov.in/node/1765#A13*
3.	SFURTI	*https://msme.gov.in/node/1764#A5*
4.	MSE-CDP	*https://msme.gov.in/node/1768*
5.	SIEC	*https://msme.gov.in/sites/default/files/guidelines.pdf*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	1	1	1	1	1	1	1	1	2	3	1
CO2	3	3	1	2	1	1	2	1	1	3	3	3	3	1
CO3	3	3	1	2	1	1	2	3	3	1	1	3	2	2
CO4	3	3	1	2	1	1	2	3	3	1	1	3	2	2
CO5	3	3	1	1	1	1	3	3	3	1	1	3	2	2
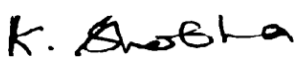
(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	PPT (V Unit)	Once in a Semester

Course designed by: Dr.K.Jayanthi	**Verified by HOD: Dr.K.Jayanthi**
Checked by CDC: Dr.S.Jaculin Arockia Selvi	**Approved by :** **Principal**

Members of Board of Studies

S. Lanthini	K. Shobha	S. Sanjay	
Dr.S.Gandhimathi, Professor of Economics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 43	Dr.K.Shobha Associate Professor & Head, PG & Research Department of Economics, Government Arts College, Coimbatore – 18	Mr.Sanjay Kondaas Automation Pvt Ltd, 5B, Sri Kamarajar Road, Alamelu Nagar, Coimbatore – 15	Dr. Vennila Gopal Associate Professor in Economics, Dr.N.G.P Arts and Science College, Coimbatore – 35

COURSE CODE: 23PEC4C14

TITLE OF THE COURSE: CORE - ECONOMICS OF DEVELOPMENT AND GROWTH

COURSE OBJECTIVES:

- To familiarize with the concept of development and its measurement.
- To provide the theoretical framework of growth and development.
- To acquire advanced knowledge as to how policy measures, facilitate economic growth and development.

COURSE OUTCOMES:

At the end of the course the student will be able to:

CO1	Familiarize with the concepts of growth and development	K2
CO2	Acquire knowledge on different theories of economic development	K2
CO3	Explains the various growth models put forward by the economists	K3
CO4	Analyse the various measures that lead to economic growth	K4
CO5	Categories the policy measures for economic growth and development	K4

Syllabus

Credits: 4   **Instructional Hours: 75**

UNIT I DEVELOPMENT AND GROWTH   (K2)   (15 hours)

Economic Development and Economic Growth – Factors Determining Economic Development – Economic and Non-Economic Factors – Obstacles to Economic Development – Measurement of Economic Development and Growth – Human Development Index – Physical Quality of Life Index – Sustainable Development Goals

(Self-Study: Obstacles to Economic Development)

UNIT II THEORIES OF DEVELOPMENT   (K2)   (15 hours)

Schumpeter Theory – Rostow's Stages of Economic Growth – Leibenstein Theory of Critical Minimum Thesis – Big Push Theory – Doctrine of Balanced Growth – Unbalanced Growth Strategy

UNIT III GROWTH MODELS   (K3)   (15 hours)

Mahalanobis Model – Harrod-Domar Model – Solow Model of Long Run Growth – Kaldor Model of Growth – Joan Robinsons Model of Capital Accumulation – Limits to Growth

UNIT IV: DOMESTIC AND EXTERNAL MEASURES   (K4)   (15 hours)

Capital Formation and Economic Development – Role of State in Economic Development – Role of Technology, Education and Knowledge in Economic Development - Investment Criteria – Foreign Direct Investment and Economic Development – Role of Foreign Aid in Economic Development.

(Beyond the Curriculum: Multi-National Companies)

UNIT V: POLICY APPROACHES   **(K4)**   **(15 hours)**

Planning and Economic Development – NITI Aayog - Financial Sector Reforms – Monetary Policy and Economic Development – Fiscal Policy and Economic Development – EXIM Policy and Economic Development – New Economic Reforms - Liberalization – Privatization – Globalization – Second Generation Reforms.

(*Self-Study: Fiscal Policy and Economic Development*)

TEXT BOOK:

1. Jhingan, ML. *The Economics of Development and Planning*, (41st edition), Vrinda Publications Pvt Ltd, New Delhi. (2017)

REFERENCE BOOKS:

1. Agarwal A.N. and Agarwal M.K. *Indian Economy: Problems of Development and Planning*, (41st Edition) New Age International Publishers, Mumbai. (2016)
2. Uma Kapila, *Indian Economy*, (9th Edition) Academic Foundation, New Delhi. (2010)
3. Misra and Puri, *Indian Economy*, (11th Edition) Himalaya Publishing House, Mumbai. (2000)
4. Ruddar Dutt, and Sundaram K.P.M, *Indian Economy* (13th Edition) S. Chand and Company, New Delhi. (2005)
5. Dhingra I.C., & Garg V.K., *The Indian Economy*, (29th Edition), Sultan Chand & Sons, New Delhi. (2016)
6. Karnati Lingaiah, *Economic Growth and Development Models* (1st Edition) S Chand and Sons, New Delhi. (2001)

BLENDED LEARNING

UNIT V: POLICY APPROACHES

S.No.	Topics	Links
1.	NITI Aayog	*https://www.slideshare.net/ZafridZafrid/niti-ayog-83786784* *https://niti.gov.in/objectives-and-features*
2.	Financial Sector Reforms	*http://lib.unipune.ac.in:8080/jspui/bitstream/123456789/3167/10/10_chapter%204.pdf*
3.	Monetary Policy and Economic Development	*https://www.yourarticlelibrary.com/policies/role-of-moneta policy-in-economic-development-of-a-country/23466* *https://www.slideshare.net/aarathana/role-of-monetary-policy-in-india*
4.	EXIM Policy and Economic Development	*https://www.youtube.com/watch?v=ZIEke1VEKjA*
5.	New Economic Reforms	*https://www.jagranjosh.com/general-knowledge/new-economic-policy-of-1991-objectives-features-and-impacts-1448348633-1*

MAPPING OF CO's WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2	1	1	1	1	2	1	1	1	2	1	1
CO2	2	1	1	1	1	1	1	2	1	1	1	1	1	1
CO3	2	1	2	2	1	1	1	1	2	1	1	1	2	1
CO4	3	2	1	1	1	1	2	2	1	1	1	2	1	1
CO5	2	1	2	1	1	1	1	2	1	1	1	1	1	2

(Correlation: L- Low, M-Medium, H-High)

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Class Participation /Class Debate (V Unit)	Once in a Semester

Course designed by: Dr. J. Jacintha Maria Florence	Verified by HOD: Dr.K.Jayanthi
Checked by CDC: Dr.S.Jaculin Arockia Selvi	Approved by : **Principal**

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COURSE OBJECTIVES:

- To gain sound knowledge on the principles of public finance.
- To help the students to understand trends in public expenditure, public revenue, taxation, public debt and budgetary policy.
- To analyse the inter-financial relation between Centre and State Governments.

COURSE OUTCOMES:

At the end of the course the student will be able to:

CO1	Thoroughly understand the theories of public finance	K2
CO2	Examine the causes, canons and effects of public expenditure	K4
CO3	Analyses various sources of public revenue with special reference to taxation	K4
CO4	Explain the classification and redemption of public debt and the budgetary procedure	K3
CO5	Investigate the relationship between the Centre-State and evaluates the fiscal policy	K5

Syllabus

Credits: 4   **Instructional Hours:75**

UNIT I: PRINCIPLE OF PUBLIC FINANCE (K2)   **(15 hours)**

Role and Function of Government – Principle of Maximum Social Advantage – Musgrave – Dalton – Hicks – Theory of Public and Private Goods – Public Goods– Private Goods - Allocation of Resources – Income Distribution – Efficient Allocation of Resources – Optimum Budget.

UNIT II: PUBLIC REVENUE (K4)   **(15 hours)**

Source of Public Revenue – Classification of Public Revenue – Taxation – Direct Tax – Indirect Tax – GST – Canons of Taxation – Effects of Taxation on Production - Effects of Taxation on Distribution - Other Effects of Taxation – Shifting of Tax - Incidence of Tax – Factors Affecting Incidence of Tax.

UNIT III PUBLIC EXPENDITURE   (K4)   **(15 hours)**

Scope of Public Expenditure – Causes for the Growth of Public Expenditure - Canon of Public Expenditure – Theories of Public Expenditure – Wagner Hypothesis – Peacock-Wiseman Hypothesis – Colin Clark hypothesis – Classification of Public Expenditure – Effects of Public Expenditure on Production, Distribution and Economic Development.

(Self-Study: Causes for the Growth of Public Expenditure)

UNIT IV: PUBLIC DEBT AND BUDGET (K3)   **(15 hours)**

Objectives of Public Debt – Classification of Public Debt – Effects of Public Debt - Redemption of Public Debt – Budget – Performance Budgeting – Zero Base Budgeting – Budgetary Procedure – Preparation – Enactment – Execution – Parliamentary Control.

(Self-Study: Budgetary Procedure)

UNIT V: FINANCIAL RELATIONS AND FISCAL POLICY (K5)   **(15 hours)**

Centre-State Financial Relations – Tax Structure – Finance Commission – Functions -Recent Finance Commission - Local Finance –Municipalities – Municipal Corporation – Village Panchayat – Panchayat Samities – Zila Parishads - Fiscal Policies - Objectives of Fiscal Policy – Instruments of Fiscal Policy.

(Beyond the Curriculum: Fiscal Federalism in India)

TEXT BOOK

1. Tyagi B.P., *Public Finance*, (57th Edition) Jai Prakash Nath & Co, Meerut. (2015)

REFERENCE BOOKS

1. Radhakrishnan N., *Public Finance*, (2nd Edition) Vrinda Publications Pvt Ltd, Delhi. (2013)

2. Singh S.K., *Public Finance in Theory and Practice*, (16th Edition) S Chand & Sons, New Delhi. (2004)

3. Misra, *Economics of Public Finance*, (3rd Edition) Himalaya Publishing House, Mumbai. (2002)

4. Hajela T.N. *Public Finance*, (4th Edition) Ane Books Pvt Ltd, New Delhi. (2010)

5. Bhatia H.L. *Public Finance* (26thEdition), Vikas Publishing House, Noida. (2009),

BLENDED LEARNING

UNIT V: FINANCIAL RELATIONS AND FISCAL POLICY

S.No	Topics	Links
1.	Fiscal Policy	*https://www.youtube.com/watch?v=4FNdUTN4cHY-*
2.	Objectives of Fiscal Policy	*https://www.youtube.com/watch?v=aBmVNVIqpfk*
3.	Instruments of Fiscal Policy	*https://www.youtube.com/watch?v=5fSkF1WWgDc*
4.	Federal Finance and Its Principles	*https://www.youtube.com/watch?v=dEOI_6TdXeY*
5.	Finance Commission	*https://www.youtube.com/watch?v=DzpAAjr1Sag*
6.	Current Finance Commission of India	*https://www.youtube.com/watch?v=s3nMWUACGk8*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
CO2	3	1	2	1	1	1	1	2	1	1	1	1	1	1
CO3	3	2	1	1	1	1	1	1	1	1	1	1	1	1
CO4	3	1	1	1	1	1	1	2	1	1	1	1	2	1
CO5	2	1	2	1	1	1	1	1	1	1	1	2	1	2
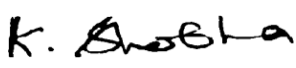
(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Review Report (V Unit)	Once in a Semester

Course designed by: Dr.Sr.A.Adaikkala Mary	**Verified by HOD: Dr.K.Jayanthi**
Checked by CDC: Dr.S.Jaculin Arockia Selvi	**Approved by :** **Principal**

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COURSE CODE: 23PEC4C16

TITLE OF THE COURSE: CORE - FUNDAMENTALS OF INDUSTRY 4.0

(Industry 4.0)

COURSE OBJECTIVES:

- To introduce the elements of Industry 4.0 like, Artificial Intelligence, Big Data and Data Analytics to the students

- To equip the students with the knowledge regarding Internet of Things

COURSE OUTCOMES:

At the end of the course the student will be able to:

CO1	Know about What is Industry 4.0	K2
CO2	Understand Artificial Intelligence (AI) and associated technologies	K2
CO3	Comprehend about big data and internet of things	K2
CO4	Know about application and tools of Industry 4.0	K4
CO6	Know about Jobs 2030	K2

Syllabus

Credits: 4   **Instructional Hours: 60**

UNIT I INDUSTRY 4.0   (K2)   (12 Hours)

Need – Reason for Adopting Industry 4.0 – Definition – Goals and Design Principles – Technologies of Industry 4.0 – Big Data – Artificial Intelligence (AI) - Industrial Internet of Things – Cyber Security – Cloud – Augmented Reality.

(Self-Study: Augmented Reality)

UNIT II ARTIFICIAL INTELLIGENCE (K2)   (12 Hours)

Artificial Intelligence: Artificial Intelligence (AI) – What & Why? – History of AI – Foundations of AI – The AI – Environment – Societal Influences of AI – Application Domains and Tools – Associated Technologies of AI – Future Prospects of AI – Challenges of AI

UNIT III BIG DATA AND IoT (K2)   (12 Hours)

Big Data: Evolution – Data: Terminologies – Big Data Definitions – Essential of Big Data in Industry 4.0 – Big Data Merits – Big Data Components - Big Data Characteristics — Big Data Applications – Big Data Tools – Big Data in IoT – Big Data in Machine Learning – Big Data Use cases : Big Data in Social Causes – Big Data for Industry – Big Data Roles and Skills – Big Data Roles – Learning Platforms - Internet of Things (IoT) – Architecture of IoT – Technologies for IoT – Developing IoT Applications – Applications of IoT.

UNIT IV APPLICATIONS AND TOOLS OF INDUSTRY 4.0 (K4)   (12 Hours)

Applications of IoT – Manufacturing – Healthcare – Education – Aerospace and Defense – Agriculture – Transportation and Logistics – Impact of Industry 4.0 on Society: Impact on Business, Government, People - Tools for Artificial Intelligence, Big Data and Data Analytics, Virtual Reality, Augmented Reality, IoT, Robotics

(Beyond Curriculum: Implications of AI on Indian Economy)

UNIT V JOBS 2030   (K2)   (12 Hours)

Industry 4.0 – Education 4.0 – Curriculum 4.0 – Faculty 4.0 – Skills required for Future – Tools for Education – Artificial Intelligence Jobs in 2030 – Jobs 2030 – Framework for aligning Education with Industry 4.0

TEXT BOOK:

1. Kaliraj P, and Devi T, (2020) Higher Education for Industry 4.0 and Transformation to Education

REFERENCE BOOKS:

1. Bhooshan Kelkar, Kaustubh R Mone and Vyyom Kelkar, *Experience the Future: AN Introduction of Industry 4.0.* (1st Edition) Neuflex Talent Solutions, Pune (2019)

2. Narendra Jadgav, *New Age Technology and Industrial Revolution 4.0*, (1st Edition) Konark Publishers, New Delhi (2019)

3. Satish Jain and Shashi Singh, *Internet of Things and its Applications* (1st Edition), BPB Publications, New Delhi. (2020)

4. Utpal Chakraborthy, *Artificial Intelligence for All* (1st Edition) BPB Publications, New Delhi. (2020)

5. Rajat Kathuria, Mansi Kedia & Sashank Kapilavai, *Implications of AI on the Indian Economy,* Indian Council for Research on International Economic Relations, New Delhi. 2020

BLENDED LEARNING

Unit-III BIG DATA AND IoT

S.No.	Topics	Link
1.	Industrial Internet of Things (IoT)	https://onlinecourses.nptel.ac.in/noc20_cs24/preview
2.	Big Data	https://www.youtube.com/watch?v=cTZVK7CK1gs

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	1	1	1	2	2	1	1	2	2	1	1
CO2	2	1	1	1	2	2	2	3	3	1	2	2	1	1
CO3	2	1	1	1	2	2	2	3	3	1	2	3	1	1
CO4	2	1	2	2	1	2	2	3	3	1	2	3	1	1
CO5	2	1	2	3	1	2	3	2	2	1	1	3	1	1
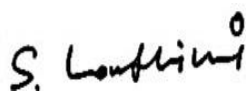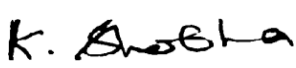
(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S.No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (Units I & II)	Twice in a Semester
6.	Quiz (Units III & IV)	Twice in a Semester
7.	Group Discussion (Unit V)	Once in a Semester

Course Designed by: Dr..R.Meenakshi	**Verified by HOD: Dr.K.Jayanthi**
Checked by CDC: Dr.S.Jaculin Arockia Selvi	**Approved by :** **Principal**

MEMBERS OF BOARD OF STUDIES

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SEMESTER: IV
COURSE CODE: 23PEC4C17
TITLE OF THE COURSE: CORE - LABOUR ECONOMICS

COURSE OBJECTIVES:
- To equip the students with the knowledge on labour, industrial disputes and social security measures
- To analyse and tackle the labour issues and labour legislations in India

COURSE OUTCOMES:
At the end of the course the students will be able to:

CO1	Acquire the knowledge on scope of labour economics and features of labour market	K2
CO2	Outline the nature and measures to settle industrial disputes and trade union movement	K2
CO3	Analyse the various issues of labour	K2
CO4	Acquire the knowledge about labour legislations in India	K3
CO5	Comprehend the social security measures in India	K3

Syllabus

Credits: 4   **Instructional Hours: 60**
UNIT I LABOUR ECONOMICS (K2)   **(12 Hours)**

Labour Economics – Meaning and Definition, Scope and importance of Labour Economics, - Labour market - Definition, Classification of Labour Market, Features of Labour Market - Characteristics of Indian Labour Market - Labour Market in organized and Unorganized Sector - Supply of Labour and Demand for Labour.
(Self-Study: Characteristics of Indian Labour market)

UNIT II INDUSTRIAL DISPUTES AND TRADE UNIONS   (K2)   **(12 Hours)**

Industrial Disputes – Causes – Effects - Industrial Dispute Act – Machinery for Settlement of Industrial Dispute – Trade Union - Trade Union Movement in India - Achievements and Failures of Trade Union Movements - Concept of Collective Bargaining - Requisite of Collective bargaining.

UNIT III LABOUR ISSUES (K2)   **(12 Hours)**

Industrial Labour – Characteristics of Industrial Labour – Problems of Industrial Labour - Agricultural Labour – Characteristics of Agricultural Labour – Problems of Agricultural Labour in India - Migration: Causes of Migration - Effects of Migration - Trends and Approaches to Migration- Unemployment: Definition – Types of Unemployment- Unemployment in India - Measures to Reduce Unemployment.
(Self-Study: Unemployment)

UNIT IV LABOUR LEGISLATIONS   (K3)   **(12 Hours)**

Labour Legislation in India – Objectives of Labour Legislation – Classification of Labour Legislations - India and International Labor Organization – National

Commission on Labour - Minimum Wage Act – Payment of Bonus – Legislative Measures for the Welfare of Women Workers - Legislative Protection to Children and Young Workers.

(Beyond the Curriculum: Directorate of Labour Bureau)

UNIT V SOCIAL SECURITY MEASURES   (K3)   (12 Hours)

Meaning - Need for Social Security - ILO and Social Security - Workmen's Compensation Act - Maternity Benefits - Employees' State Insurance (ESI) - Employees' Provident Fund - Compensation for Lay-off or Retrenchment - Family Pension Scheme.

TEXT BOOK

1. Mamoria C.B., Satish Mamoria, Subba Rao P, *Dynamics of Industrial Relations*, (5th Edition) Himalaya Publishing House, Pvt. Ltd, Mumbai. (2019).

REFERENCE BOOKS

1. Gupta P.K., *Labour Economics*, (2nd Edition), Vrinda Publications, Delhi. (2018).
2. Suman Kalyan Chakraborty, *Labour Economics*, (4th Edition) Himalaya Publishing House, Pvt. Ltd, Mumbai. (2018)
3. Sinha PRN, Indu Bala Sinha, Seema Priyadarshini Shekhar, *Industrial Relations, (3rd Edition) Trade Unions and Labour Legislation,* (3rd Edition), Pearson India Education Services Pvt. Ltd, Noida. (2017).
4. Jhabvala, R. and R.K. Subrahmanya, *The Unorganized Sector: Work Security and Social Protection* (1st Edition) Sage Publications, New Delhi. (2000).

BLENDED LEARNING

UNIT IV LABOUR LEGISLATIONS

S.No	Topics	Links
1.	Labour Legislation in India	*https://www.youtube.com/watch?v=UuhA46HrzEA*
2.	Classification of labour legislation	*https://www.youtube.com/watch?v=1b-j1CV6HRc*
3.	India and International labour organization	*https://www.youtube.com/watch?v=rHFtgqf6mEI*
4.	National Commission on Labour	*https://www.youtube.com/watch?v=17Y8NguAjg4*
5.	Minimum wages act	*https://www.youtube.com/watch?v=0Ld78M3hfjo*
6.	Payment of bonus	*https://www.youtube.com/watch?v=Apv5qTbIsqQ*
7.	Legislative measures for the welfare	*https://www.youtube.com/watch?v=YBdBqNnRclQ*

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	2	1	1	2	2	1	2	1	1	2	2
CO2	2	1	1	1	1	1	2	2	1	2	1	2	1	2
CO3	3	2	2	1	1	1	2	1	2	2	1	2	2	1
CO4	2	2	1	2	1	1	3	1	2	2	1	2	3	2
CO5	1	2	2	2	1	1	2	1	1	2	2	2	1	1

(Correlation: 3 – High, 2 – Medium, 1 – Low)

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Model Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Seminar (V Unit)	Once in a Semester

Course designed by: Dr. J. Jacintha Maria Florence	**Verified by HOD: Dr.K.Jayanthi**
Checked by CDC: Dr.S.Jaculin Arockia Selvi	**Approved by :** **Principal**

MEMBERS OF BOARD OF STUDIES

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COURSE CODE: 23PEC4E01

TITLE OF THE COURSE: ELECTIVE - OPERATIONS RESEARCH

(Skill Development)

COURSE OBJECTIVES:

- To gain knowledge of appropriate basic operations research techniques
- To develop skills in formulation and finding solution to decision making problems

COURSE OUTCOMES:

At the end of the course the student will be able to:

CO1	Formulate linear programming problem and identify the solutions	K2
CO2	Determine basic feasible solution for transportation problem using various methods and formulate and solve the assignment problems	K3
CO3	Interpret the managerial applications of the game theory	K4
CO4	Understand the network analysis and workout with the problems	K2
CO5	Understand Queuing models and the solution to queuing problems.	K2

Syllabus

Credits: 5   **Instructional Hours:60**

UNIT I OPERATIONS RESEARCH AND LINEAR PROGRAMMING (K2) (12 hours)

Features of Operations Research – Phases of Operations Research – Application of Operations Research – Techniques of Operations Research - Limitations of Operations Research - Linear Programming –Assumptions of Linear Programming Problem – Formulation of Linear Programming Problem - Graphical Solution with Two Variables – Simplex Method.

(Self-Study: Assumptions of Linear Programming Problem (LPP)

UNIT II: TRANSPORTATION AND ASSIGNMENT   (K3)   (12 hours)

Transportation Problem – Formulation of Transportation Problem – Finding Initial Basic Feasible Solutions to Transportation Problem: North-West Corner Method – Least Cost Method – Vogel's Approximation Method – Assignment Problem – Application of Assignment Model – Formulation of Assignment Model – Solving Assignment Problem using Hungarian Rule.

UNIT III: GAME THEORY   (K4)   (12 hours)

Game Theory – Basic concepts of Game theory – Pay-Off Matrix – Two Persons Zero Sum Game – Minimax and Maximin –Saddle Point – Dominance Method – Arithmetic Method - Sub-Games Method– Application of Game Theory.

(Self-Study: Saddle Point)

UNIT IV: NETWORK ANALYSIS   (K2)   (12 hours)

Network Analysis – Basic Components- Network Techniques – Fulkerson's Rule – Critical Path Method– Probability of meeting the Schedule Dates – PERT -

Distinction between CPM and PERT – Application and Advantages of Network Analysis.

UNIT V: QUEUING **(K2)** **(12 hours)**

Queuing Theory – Characteristics of Queuing models – Waiting Time and Idle Time Cost – Single Channel Queuing Theory – Cost Benefit Analysis – Enumeration of Cost and Cost and Benefit – Investment Criterion.

(Beyond Curriculum: Application of Queuing Theory)

TEXT BOOK

1. Kanti Swarup Gupta P. K and Man Mohan, *Operations Research*, (19th Edition) Sultan Chand & Sons, New Delhi. (2017)

REFERENCE BOOKS

1. Panneerselvam R., *Operations Research* (2nd Edition), PHI learning Pvt Ltd, New Delhi. (2016)

2. Kothari, C.R. *An Introduction to Operational Research*, (3rd Edition), Vikas Publishing House, Noida. (2013)

3. Mariappan, P. *Operations Research*, (1st Edition), New Century Book House, Chennai. (2001)

4. Sharma, J.K. *Operations Research*, (1st Edition), MacMillan India, Delhi. (2001)

5. Hamdy A Taha, *Operations Research*, (8th Edition), Pearson Prentice Hall, Noida. (2011),

6. Srinivasan G. *Operations Research*, (1st Edition), PHI Learning Pvt Ltd, New Delhi. (2008),

BLENDED LEARNING

UNIT IV: NETWORK ANALYSIS

UNIT V: QUEUING

S.No.	Topics	Links
1	Network Analysis	*https://onlinecourses.swayam2.ac.in/cec22_ma03/unit?unit=59&lesson=63*
2	PERT	*https://onlinecourses.swayam2.ac.in/cec22_ma03/unit?unit=59&lesson=64*
3	PERT & CPM	*https://www.youtube.com/watch?v=SpXfe7hQ8Xw*
4	Queueing	*https://www.youtube.com/watch?v=uB6FGzEEWis* *https://www.youtube.com/watch?v=xGkpXk-AnWU*

MAPPING OF CO's WITH POs AND PSOs

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CO2	2	1	2	3	3	1	1	1	1	1	1	1	2	1
CO3	2	1	2	3	3	1	1	2	1	1	1	1	1	1
CO4	2	1	2	3	3	1	1	2	1	1	2	1	1	1
O5	2	1	2	3	3	1	1	1	1	1	1	1	1	1
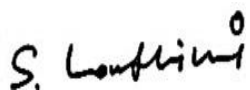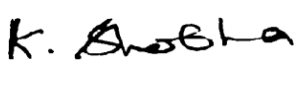
Correlation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOOLS

S. No.	Assessment Methods	Frequency of Assessment
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6.	Quiz (III & IV Units)	Twice in a Semester
7.	Class Participation (V Unit)	Once in a Semester

Course Designed by: Dr. K. Jayanthi	Verified by HOD: Dr.K.Jayanthi
Checked by CDC: Dr.S.Jaculin Arockia Selvi	Approved by : **Principal**

MEMBERS OF BOARD OF STUDIES

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COURSE CODE:23PEC4E02

TITLE OF THE COURSE: ELECTIVE-INTELLECTUAL PROPERTY RIGHTS

(Innovation)

COURSE OBJECTIVES:

- To introduce fundamental aspects of Intellectual property Rights to students
- To disseminate knowledge on concepts and kinds of IPR like, Patent, Copyright, Trademark, GI and design

COURSE OUTCOMES:

At the completion of the course the student will have the ability to

CO 1	Discuss about IPR in India and Internationally	K2
CO 2	Aware about Patent and the procedure for patent registration	K2
CO 3	Understand the concept of Copyright and the procedure for registration of Copyright	K4
CO 4	Acquire knowledge on trademarks and Registration of Trade Marks	K2
CO 5	Describe about Design and Geographical Indication and procedural requirements relating to Design and GI	K2

Syllabus

Credits: 5   **Instructional Hours: 60**

UNIT I OVERVIEW OF INTELLECTUAL PROPERTY (K2) (12 Hours)

Concept of Intellectual Property - Need for Intellectual Property Right (IPR) – Intellectual Property System in India - Kinds of Intellectual Property Rights – World Intellectual Property Organization (WIPO)- Trade-Related Intellectual Property Systems (TRIPS) Agreement

(Self-Study: Kinds of Intellectual Property Rights)

UNIT II PATENTS (K2) (12 Hours)

Concept of Patents - Patents Act, 1970 - Elements of Patentability - Novelty, Non-Obviousness and Utility - Non - Patentable Subject Matter – Procedure for Patent Registration – Filling -Processing – Opposition to Patent - Grant of Patent – Assignment of Patents – Patent Offices in India

UNIT III COPYRIGHTS (K4) (12 Hours)

Concept of Copyright - Copyright Act, 1957 - Registration of Copyright - Authorship and Ownership – Copyright Board – Assignment of Copyright - License of Copyright – Statutory Exemptions

(Self-Study: Authorship and Ownership)

UNIT IV TRADE MARKS (K2)   (12 Hours)

Concept of Trademarks - Trade Marks Act, 1999 - Different kinds of marks - Non-Registrable Trademarks - Registration of Trade Marks – Opposition to Registration – Refusal to Registration - Rights of holder of Trade mark

UNIT V OTHER FORMS OF IP (K2)   (12 Hours)

Design - Concept of Design –Designs Act, 2000 **-** Registrable Design - Procedure for Registration of Design – Application – Content - Geographical Indication - Geographical Indications of Goods (Registration and Protection) Act, 1999 - Features of Geographical Indication - Procedure for Registration of Geographical Indications – Application – Content.

TEXT BOOK:

1. Nithyananda, K V, *Intellectual, Property Rights: Protection and Management*. Cengage Learning India Private Limited. Nodia. (2019).

REFERENCE BOOKS:

1. Ahuja, V K. *Law relating to Intellectual Property Rights*. (3rd Edition), Lexis Nexis India, (2017).

2. Neeraj, P., & Khusdeep, D. *Intellectual Property Rights in India*, PHI learning Private Limited, New Delhi, (2014).

3. Vinod V Sople., *Managing Intellectual Property*, PHI learning Private Limited, New Delhi, (2014)

4. Narayanan P., *Intellectual Property Law*, Eastern Law House, Kolkatta. (2017)

5. Anita Rao R and Bhanoji Rao*, Intellectual Property Rights,* Eastern Book Company, Bengaluru, (2018)

6. Rupinder Tewari and Mamta Bhardwaj*, Intellectual Property*, Publication Bureau, Punjab University, Chandigarh. (2021)

BLENDED LEARNING

UNIT IV - TRADE MARKS

Topics	Links
Trade Marks	https://www.youtube.com/watch?v=mVACmA_vOLY https://www.youtube.com/watch?v=nXyCyWg6x98

MAPPING OF COs WITH POs AND PSOs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	1	1	1	2	1	2	1	2	1	2	3
CO2	2	1	1	2	1	1	2	2	2	1	2	2	2	1
CO3	2	1	2	2	1	1	2	2	2	2	2	1	2	1
CO4	2	1	2	2	1	1	2	2	2	1	2	2	3	1
CO5	2	1	1	1	1	1	2	2	2	1	2	1	1	1

Corre1ation: 3 – High; 2 – Medium; 1 - Low

ASSESSMENT TOO1S

S. No.	Assessment Methods	Frequency of Assessment
1.	End Semester Examinations	Once in a Semester
2.	CIA I	Once in a Semester
3.	CIA II	Once in a Semester
4.	Mode1 Examinations	Once in a Semester
5.	Assignment (I & II Units)	Twice in a Semester
6.	Quiz (III & IV Units)	Twice in a Semester
7.	Record Submission (V Unit)	Once in a Semester

Course Designed by: Dr. K. Jayanthi	**Verified by HOD: Dr.K.Jayanthi**
Checked by CDC: Dr.S.Jaculin Arockia Selvi	**Approved by :** **Principal**

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In collaboration with Ravel Community College, Coimbatore

TITLE OF THE COURSE: Certificate Course on Tally ERP.9

(Offered from the academic year 2022-23 onwards)

COURSE OBJECTIVES:

- To impart knowledge regarding concepts of Financial Accounting
- To incorporate in-depth information to meet industrial accounting requirements.

COURSE OUTCOMES:

CO1	Familiar with accounting system
CO2	Understand the fundamentals of Tally ERP.9
CO3	Comprehend the features and configurations in Tally ERP.9
CO4	Create inventory register and reports
CO5	Generate accounting and inventory vouchers
CO6	Acquainted with advanced accounting in Tally ERP.9

SYLLABUS

Instructional Hours: 60 Hrs

MODULE 1: BASICS OF ACCOUNTING

- Types of Accounts
- Golden Rules of Accounting
- Concepts and Conventions
- Double Entry System of book Keeping
- Mode of Accounting
- Financial Statement
- Transactions
- Recording

MODULE 2: FUNDAMENTALS OF TALLY ERP 9

- Getting Functional with Tally ERP 9
- Creation / Setting up of Company in Tally ERP 9

MODULE 3: ACCOUNTING MASTERS IN TALLY ERP.9

- F11 – Features
- F12 – Configurations
- Setting up Accounts Head

MODULE 4: INVENTORY IN TALLY ERP 9

- Stock Groups
- Stock Categories
- Go down / Locations
- Units of Measure
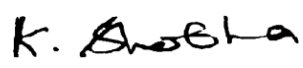- Stock Items
- Creating Inventory Master for National Traders

MODULE 5: VOCHER ENTRY IN TALLY ERP 9

- Accounting Voucher
- Inventory Voucher
- Invoicing

MODULE 6: ADVANCED ACCOUNING IN TALLY ERP 9

- Bills – Wise details
- Cost Centers and Cost Categories
- Voucher Class and Cost Center Class
- Multiple Currencies
- Bank Reconciliation
- Interest Calculations
- Budgets and Controls
- Scenario Management

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