

M. A. Economics

Syllabus

UNIVERSITY DEPARTMENT

Program Code: ECOB

2023 – 2024 onwards



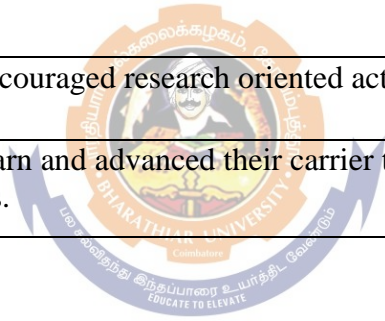
BHARATHIAR UNIVERSITY

(A State University, Accredited with “A++” Grade by NAAC,
Ranked 21st among Indian Universities by MHRD-NIRF)

Coimbatore - 641 046, Tamil Nadu, India

Instruction: PEOs are:

Program Educational Objectives (PEOs)	
The M. A. Economics program describe accomplishments that graduates are expected to attain within five to seven years after graduation	
PEO1	To continuously enhance academic knowledge and research outcome
PEO2	To identify problems of the economy, policy and society
PEO3	Students will understand importance of growth and sustainability to solve the national issues
PEO4	Students will develop knowledge and will have indepth understanding of theories and empirical evidences in the field of economics
PEO5	Students will develop critical thinking and analytical approach to learning and will be able to give opinion by logical thinking
PEO6	Students will equip application of econometric and statistical tools to solve the real world problems.
PEO7	Students will develop a fashion towards independent learner and will be able to gain skills needed and employment and personal development
PEO8	Students will be made cautious towards environment and sustainable development
PEO9	Students will be encouraged research oriented activities and motivated through holistic approach
PEO10	Students will be learn and advanced their carrier through participation in various professional bodies.



Instruction: Program Specific Outcomes (PSOs)

Program Specific Outcomes (PSOs)	
After the successful completion of M.A. Economics program, the students are expected to	
PSO1	provide in depth remember of theories and models used in the subject of economics and also to expose the students on practical aspects of the same theory
PSO2	equip the students on understanding of macroeconomic structure, recent trends in economics to develop a logical thinking.
PSO3	apply the economic model in the thrust areas of research to enable the Students to take up empirical and policy oriented research.
PSO4	equip the students with managerial and entrepreneurial skills for self employment.
PSO5	prepare the students to have exposure on examinations for administrative Positions and specialized research.
PSO6	enable the students to critically evaluate the nitty-gritty problem of the societal development.



Instruction: Programme Outcomes.

Program Outcomes (POs)	
On successful completion of the M. A. Economics program	
PO1	The students will possess comprehensive knowledge of economics and to realize relevance economic theories in practice. Ability to interpret inferences of output for policy making.
PO2	Ability to analyse current nitty-gritty problem of society on the basis of an economic perspective.
PO3	Enhance knowledge and applied skills to undertake research.
PO4	The students will be able to acquire knowledge of policy making decision such as trade, financial institutions and marketing.
PO5	To develop the students for model building through application of econometrics, operation research, mathematics and statistics.
PO6	To make the students to be aware of policies and programmes on environment, consumer protection, agriculture, industry, service etc and to apply the same in the society.
PO7	To enable the students to think, act and perform originally and independently in their creative and innovative theories.
PO8	The students will enrich their knowledge in human resource, health, empowerment, poverty, unemployment, migration, inflation etc.
PO9	To gain knowledge through field works to identify the problems at gross root of level.
PO10	To give knowledge to the students of economics to equip them to opt employment from various fields such as industry, service, agriculture, MSME non-farm, banking etc.

BHARATHIAR UNIVERSITY: COIMBATORE 641 046

M. A. Economics Curriculum (University Department)

(For the students admitted during the academic year 2023 – 24 onwards)

Course Code	Title of the Course	Credits	Hours		Maximum Marks		
			Theory	Practical	CIA	ESE	Total
FIRST SEMESTER							
22ECOB13A	Micro Economic Analysis – I	4	5	-	25	75	100
22ECOB13B	Quantitative Methods	4	5	-	25	75	100
22ECOB13C	Indian Economy	4	5	-	25	75	100
			5		25	75	
22ECOB13D	Environmental Economics	4	5	-	25	75	100
22ECOB1EA	<i>Elective</i> : 1. Behavioural Economics 2. Introduction to Industry 4.0	4	5	-	25	75	100
	<i>Supportive – I</i>	2	2	-	12	38	50
Total		22		-			550
SECOND SEMESTER							
22ECOB23A	Micro Economic Analysis – II	4	5	-	25	75	100
22ECOB23B	Macro Economics	4	5	-	25	75	100
22ECOB23C	Economics of Human Resource	4	5	-	25	75	100
22ECOB23D	Research Methodology	4	5	-	25	75	100
22ECOB2EB	<i>Elective</i> : 1. Marketing Management 2. Industrial Economics 3. Operation Research	4	5	-	25	75	100
	<i>Supportive - II</i>	2	2	-	12	38	50
	Internship/ Summer Project	2			20	30	50
Total		24		-			600
THIRD SEMESTER							
22ECOB33A	Econometrics	4	5	-	25	75	100
22ECOB33B	Agricultural Economics	4	5	-	25	75	100
22ECOB33C	Public Economics	4	5	-	25	75	100
22ECOB33D	History of Economic Thought	4	5	-	25	75	100
22ECOB3EC	<i>Elective</i> : 1. Rural Economics 2. Economics for Administration	4	5	-	25	75	100
	<i>Supportive – III</i>	2	2	-	12	38	50

Total		22		-			550
FOURTH SEMESTER							
22ECOB43A	Economics of Development	4	5	-	25	75	100
22ECOB43B	International Trade and Finance	4	5	-	25	75	100
22ECOB43C	Monetary Theory and Policies	4	5	-	25	75	100
	Research Project & Viva-voce	10		-	50 (Viva)	200	250
Total		22					550
Grand Total		90					2250
ONLINE COURSES							
	Swayam/ Coursera, and the like	Minimum 2 credits					

Supportive courses offered to other departments

I	22ECOGS..	Basic Economics	2		-	12	38	50
II	22ECOGS..	Agricultural Economy of India	2		-	12	38	50
III	22ECOGS..	Elements of Public Economics	2		-	12	38	50
IV	22ECOGS..	Introduction to Indian Economy	2		-	12	38	50
V	22ECOGS..	An Introduction to Environmental Economics	2		-	12	38	50

CO-SCHOLASTIC COURSES

ONLINE COURSE

	SWAYAM-MOOC Course	2					50
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VALUE ADDED COURSES

I	Global Business Foundation Skills	2					50
III	Advanced Hands on training in Statistical Software	2					50

CERTIFICATE COURSES

II	Tally	2					50
IV	R Programming	2					50

SWAYAM-MOOC- online course shall be for duration at least 4 weeks with at least 2 credits. The course shall be mandatory and shall be completed within third semester (i.e., before the beginning of fourth semester).

Distribution of Marks and Credits

	Subjects						Total
	Core	Elective	Supportive	SWAYAM/MOOC	VAC	JOC	
Marks	1800	300	150	50	100	100	2500
Credits	72	12	06	02	04	04	100

VAC: Value Added Course

JOC: Job Oriented Course

ANNEXURE II

Pattern of Question Paper – (for core – theory and elective subjects)

The question paper for each of the core and elective paper shall consist of three sections. While Section A shall contain 10 objective type questions, Section B and Section C shall contain questions of descriptive nature. Internal choice (either / or type) shall be given in Section B and Section C. In Section A, there shall be two questions each with four multiple choices from each of the five units. In Sections B and C, there shall be one question with internal choice (either / or type) from each of the five units. The composition of the question paper shall be as given below:

Time: Three Hours

Max.Marks:75

Section A – (10X1=10)
Answer All the questions
Each question carries one mark
Choose the correct answer

Q.No.1.-Q.No.10-Objective questions with four multiple choices

Section B – (5X5=25)
Answer All the questions
Each question carries five marks

Q.No.11.-Q.No.15- Questions with internal choices (either (a) or (b) type)

Section C – (5X8=40)
Answer All the questions
Each question carries eight marks

Q.No.15.-Q.No.20- Questions with internal choices (either (a) or (b) type)

Pattern of Question Paper – (for core-practical subjects)

The question paper for each of the core – practical papers (Statistics Practical I and II, Programming Lab I and II, Statistical Software Practical using SPSS and MINITAB, and, Statistical Software Practical using R shall consist of four questions with internal choice. The maximum marks for each of the practical papers shall be 60. A candidate shall attend all the four questions, each of which shall carry 15 marks. The composition of the question paper shall be as given below.

Time: Three Hours

Max.Marks:60

*Answer All the questions
Each question carries fifteen marks*

Q.No.1.-Q.No.4- Questions with internal choices (either (a) or (b) type)

Pattern of Question Paper – (for supportive subjects)

The question paper for each of the supportive paper shall consist of three sections. While Section A shall contain 5 objective type questions, Section B and Section C shall contain questions of descriptive nature. Internal choice (either / or type) shall be given in Section B and Section C. In Section A, there shall be one question each with four multiple choices from each of the five units. In Sections B, there shall be one question with internal choice (either / or type) from each of the five units in Section C, there shall be three questions with internal choice (either / or type) from all the five units. The composition of the question paper shall be as given below:

Time: Two Hours

Max.Marks:38

Section A – (5X1=5)
*Answer All the questions
Each question carries one mark*

Q.No.1.-Q.No.5-Objective questions with four multiple choices

Section B – (5X3=15)
*Answer All the questions
Each question carries three marks*

Q.No.11.-Q.No.13- Questions with internal choices (either (a) or (b) type)

Section C – (5X3=15)
*Answer All the questions
Each question carries three marks*



***First
Semester***

Course code	23ECOB13A	MICRO ECONOMIC ANALYSIS – I	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the fundamental concepts of micro economic theory		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Gain sound knowledge in basic Economic theories, concepts and models. 2. Gain sound knowledge to apply economic theories and models to execute managerial functions. 3. Enable students to obtain managerial problems solving skills. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	To recall the concept of micro economic theory					K1
2	Understand the factors that affect firm's pricing decision.					K2
3	Relates the basic economic theory and principles to current microeconomic issues and evaluate related public policy.					K3
4	Know how individuals and firms interact within markets, when markets fail, and how government policy may improve outcomes for society.					K4
5	Develop students' abilities to construct and sustain an argument using the phrases and concepts that economists use in their deliberations.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	METHODOLOGY OF ECONOMICS					12 hours
Methods of Economic Analysis: Deductive Method - Testing of Economic Hypothesis through Statistical Methods – The Inductive Method – Integration of Two Methods – Hypothetic-Deductive -Nature of Economic Laws and Generalizations – Role of Assumption: Friedman's views – The Processes of Building Economic Models – Choice among Models Limitation and Uses of Economic Models – Economic Concepts and Tools, Inter temporal choice.						
Unit:2	CONSUMPTION THEORY					12 hours
Law of Demand – Determinants of Demand – Theories of Demand: Neo Classical Theory, Indifference Curve Theory, Slutsky Theory, Hicks Theory – Revealed Preference Theory – Elasticity of Demand. Recent theories in demand analysis: Nerlove's stock adjustment principle, Houthakkar's and Taylor's dynamic model.						
Unit:3	THEORY OF PRODUCTION AND COST					12 hours
Production Function – Law of Variable Proportions – Law of Returns to Scale – Isoquants. Common Production Functions: Cobb-Douglas Production Function – CES Production Function. Production Equilibrium: Optimal Expansion Path, Technical Progress and Production – Types of Cost – Traditional Theory of Cost – Modern Theory of Cost – Economies of Scale. Diseconomies of Scale – Economies of Scope, Learning Curve.						

Unit:4	THEORY OF PRODUCT PRICING I	12 hours
Market and Market Structure – Perfect Competition – Features, Price and Output Determination – Monopoly: Sources and Types, Price and output determination - Control and Regulation of Monopoly – Price Discrimination – Welfare aspects of price discrimination – The dead weight loss under monopoly - Bilateral Monopoly, Monopsony.		
Unit:5	THEORY OF PRODUCT PRICING II	12 hours
Monopolistic Competition – Features, Price and Output Determination – Chamberlin Equilibrium – Theory of Excess Capacity - Wastes in Monopolistic Competition. Oligopoly: Characteristics – Price and Output Determination – Collusive Oligopoly: Cartels – Price Leadership - Non Collusive model – Kinked Demand Curve and Price Rigidity. Duopoly – Price and Output Determination – Cournot – Edgeworth, Chamberlin and Stackelberg Models – Workable Completion.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s) for study		
1	Jhingan, M. L. (2011), <i>Micro Economic Theory (8th Edition)</i> , Vrinda Publications (P) Ltd, Delhi.	
2	Ahuja, H. L. (2011), <i>Managerial Economics (5th Edition)</i> , S. Chand & Company Ltd., New Delhi.	
Books(s) for Reference		
1	Koutsoyinnannis, A. (1979), <i>Modern Micro-Economics (2nd Edition)</i> , Macmillan Press, London.	
2	Dewett, K. K. (2005), <i>Modern Economic Theory (22nd Revised Edition)</i> , Shyam Lal Charitable Trust, New Delhi.	
3	Agarwal, H. S. (2008), <i>Microeconomic Theory (7th Edition)</i> , Ane Books India, New Delhi.	
4	Ahuja, H. L. (2006), <i>Modern Microeconomics (13th Edition)</i> , S. Chand & Company Ltd., New Delhi.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	For more details > go to this link > https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11 > select Subject and Module	
Course Designed By: Dr. R. Manikandan		email.ID – maninoble@gmail.com

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	M	L	L	S	M	L	L
CO2	S	L	M	S	S	L	M	L	L	L
CO3	S	M	L	M	S	L	M	L	L	L
CO4	S	L	L	S	L	S	L	L	L	L
CO5	S	L	L	S	L	L	L	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB13B	QUANTITATIVE METHODS	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the basic mathematics skill		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
1. To impart various mathematical and statistical methods						
2. To apply quantitative techniques in managerial practices.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the concept and types of sets, demonstrate and apply basic set operations and to solve quadratic equations.					K1
2	Demonstrate the role of mathematics in the field of business/industry and illustrate the different types of problems and its application in economics.					K2
3	Explain the rules for calculating derivatives, its uses and application in calculating the inter-relationship among total marginal revenue, cost, utility and elasticity of functions.					K3
4	Understand and apply the Marginal productivity theory of distribution in production function.					K4
5	Define and Illustrate the matrix operations, minors, cofactors, find inverse of a matrix and apply the Cramer's rule to solve the system of simultaneous equation.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	SET THEORY AND LINEAR EQUATIONS					12 hours
Set Theory: Meaning and its types; Operations on sets and Laws of set operations – Venn diagram approach - Properties of real number solutions of quadratic equations –Formula and Completing Square Method - Solution to Linear Equations with two variables in Elimination Method.						
Unit:2	FUNCTIONS AND CALCULUS					12 hours
Relations and Functions: Functions of one variable – Types of variable- straight line, Slope – Point form – Two points form, and rectangular hyperbola - Exponential and logarithmic functions. Concave and Convex functions - Applications in Business Economics.						
Unit:3	DIFFERENTIAL CALCULUS					12 hours
Derivatives and their interpretation and techniques of derivatives. Relationships among Total, Average, and Marginal Revenue and Cost and Utility -Elasticity of Functions. Functions of two variables- Partial derivatives and their applications in Economics. Interest rate – Simple and Compound.						
Unit:4	THEORY OF FIRM'S BEHAVIOUR					12 hours

Maxima and Minima of two or more variables - Applications in Economics -Production function - Mathematical Expression and its properties -Homogeneous function and its properties, Marginal productivity theory of Distribution with examples, Cobb-Douglas and CES Production Functions and their properties.										
Unit:5	MATRIX, DETERMINANTS AND SIMULTANEOUS EQUATIONS									12 hours
Matrix Algebra – Determinants and properties, Types of Determinants - Matrix: Rank of Matrix, Cofactor – Minor, Types - Square Matrix, Null Matrix, Unit Matrix, Multiplication and Scaler Matrix, Operations - Addition and Subtraction of Matrix, Multiplication - Transpose of a Matrix and Inverse of Matrix. Solutions for simultaneous equations with two variables - Cramer's Rule.										
Unit:6	Contemporary Issues									2 hours
Expert lectures, online seminars – webinars										
									Total Lecture hours	62 hours
Book(s) for study										
1	Alpha C Chiang, "Fundamental Methods of Mathematical Economics", 3ed McGraw Hill, New York.									
2	Tara Yamne, "Mathematics for Economics", 2nd ed. Engle wood Cliffs, New Jercy.									
3	Allen R.G.D., "Mathematical Analysis for Economists", ELBS, Macmillan.									
4	Dowling.T.E., Introduction to Mathematical Economics, McGraw Hill									
5	Bose D., An Introduction of Mathematical Economics, Himalaya Publishing House, Mumbai.									
6	Chiang A.C., Fundamental Methods of Mathematical Economics, McGraw-Hill Higher Education.									
Books(s) for Reference										
1	Draper, Jean.E "Mathematical Analysis-Business and Economic Lingman.K, Jane.S. Applications", Harper International ed., New York.									
2	2Medha and Madhnani, "Mathematics for Economics", Sultan Chand, New Delhi.									
3	Neber.E.J., Mathematical Analysis: Business and Economic Applications, Harper International Edition, New York.									
4	Mabbett A.J., "Workout Mathematics for Economists", Macmillan, London.									
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
1	For more details > go to this link> https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11 >select Subject and Module									
Course Designed By: Dr. R. Govindasamy email.Id - govindphd@gmail.com										
Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	L	S	L	M	L	L	L
CO2	S	M	S	M	S	M	S	L	L	M
CO3	S	S	S	L	S	S	L	L	S	L
CO4	S	S	S	L	S	M	S	L	S	L
CO5	S	M	S	M	S	L	L	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB13C	INDIAN ECONOMY		L	T	P	C
Core				5	-	-	4
Pre-requisite	Knowledge about the Indian economic problems such as National Income, Planning and Export and Import policies.		Syllabus Version	2023-24			
Course Objectives:							
The main objectives of this course are to:							
<ol style="list-style-type: none"> 1. Recall various aspects of Indian Economy 2. Give the students the tools for critical decision-making about and participation in Indian economic growth and development. 							
Expected Course Outcomes:							
On the successful completion of the course, student will be able to:							
1	Remember various aspects of Indian Economy.					K1	
2	Understand the various issues and strategies for the development of India's Economy.					K2	
3	Develop a perspective on the different problems and approaches to economic Planning and development in India					K3	
4	Understand estimation of national income and measurement of poverty.					K4	
5	Expose the students on budgetary policies of the government and analyse the External sector.					K5	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create							
Unit:1	ECONOMIC DEVELOPMENT					12 hours	
Measurement of Economic Development - Characteristic of Developing and Developed Economies - Causes for Less Economic Development In India - Major Issues in Development - Strategies for Economic Development Import Substitution and Export Oriented Strategies - Determinants of Economic Development.							
Unit:2	NATIONAL INCOME					12 hours	
The National Income and its Estimates in India - Limitations of National Income Estimation - Trends in National Income of India: Growth and Structure - Inter-state variations in National Income - Income Distribution - Measurement of Poverty in India.							
Unit:3	PLANNING					12 hours	
Economic Planning - Planning and Economic Development in India - Planning Models in India (Elementary concepts) - Capital Formation - Growth of Public and Private Sectors in India - Industrial Policies an Assessment - Capital Formation and Domestic Saving.							
Unit:4	PUBLIC FINANCE					12 hours	
Budgetary Policies of the Central Government - Composition and Trends in Public Revenue and Expenditure - Expenditure Control and Government Consumption Expenditure - Concepts of Budgetary Deficits and Implications - State Budget.							
Unit:5	INDIA AND EXTERNAL SECTOR					12 hours	

Importance of Foreign Trade - Terms of Trade and Balance of Payments - Export and Import Policies - India and WTO (ePathsala).

Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s) for study		
1	Dutt.R. and K.P.M.Sundaram. 2019. Indian Economy, S.Chand and Co, New Delhi.	
2	Agarwal.A.N. 2016. Indian Economy, Wiley Eastern Ltd, New Delhi.	
Book(s)for Reference		
1	Srinivas Y.Thakur.2015. Indian Economic Development, Sterling Publishers, New Delhi.	
2	Government of India, Economic Survey, (various years).	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. P. Shanmugam email.ID - bushanmugam@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	M	L	S	L	S	S	S	L	M
CO2	S	M	S	L	L	M	M	S	M	S
CO3	S	M	M	M	L	S	M	L	L	L
CO4	S	L	S	L	M	S	M	S	L	L
CO5	S	L	S	S	M	M	S	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB13D	ENVIRONMENTAL ECONOMICS	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about welfare economics and environment		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Enable remember the basic environmental economics concepts and theory. 2. Enable to understand the environmental problems regional, nationally and global issues. 3. Able to allocate resources with use of Economic models and able to apply economic theories in to the environmental problems to solve the social issues. 4. Enrich knowledge to analyze about environmental protection, Environmental Impact Assessment of environmental damages or project estimation.. 5. Evaluate problems caused by divergences between private and social costs and benefits of environmental amenities. 6. Able to create the environmental policy through students research. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the subject of environmental economics, including its key principles and theories.				K1	
2	Learn how markets allocate goods and why they sometimes fail allocate environmental goods optimally and learn to design regulation which corrects market failures.				K2	
3	Use economic techniques to analyse environmental problems and to create environmental policies.				K3	
4	Assist in the identification of needs and the design, planning, resourcing and development of projects in environmental and social sustainability				K4	
5	Develop research skills in the field of environmental economics.				K5	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	AN INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND CONCEPTS				12 hours	
An Introduction to Environmental Economics – Concepts: Environment, Bio diversity - Pollution, Anthropocentrism ,Ecocentrism, Green Productivity , Environment footprint , Entropy , Carbon Trading and Market - Externality – Economy-Environment Linkages – The Material Balance Principle – Market Failure – Private Versus Social Cost – Trade-Off between Economic Growth and Environment – Sustainable Development – Environmental Quality as a Public Good.						
Unit:2	ENVIRONMENTAL PROBLEMS				12 hours	
Sources and Types of Pollution: Domestic and Industrial Pollutions (Air, Water, Solid Waste, Land Degradation) – Causes and Effects of Environmental Degradation – Urban and Rural Environmental Problems – Energy: Renewable and Non-Renewable Resources						

Unit:3	ENVIRONMENTAL ECONOMIC THEORY FOR RESOURCE ALLOCATION	12 hours
Relationship between development and Environmental Stress - Economic Theory for Resource Allocation- Pigovian tax and subsidies – Externalities – Pareto Efficiency’ and the Market – Limits to Growth – Coase’s Theorem- Simon Kuznet’s Inverted ‘U’ Shaped Curve – Technology Versus Environment – Population and Environment.		
Unit:4	ENVIRONMENTAL DAMAGE ASSESSMENT AND VALUE THE NATURE	12 hours
Economics of Pollution Control - Environmental Impact Assessment (EIA) – Benefit/Cost Analysis – Use value and Non use value: Revealed Preference; Travel cost methods, Damage Cost Assessment, Bequest Method; Contingent Valuation Method – Hedonic Price Approach.		
Unit:5	POLICY MEASURES	12 hours
Global Environmental Problems: Global Warming; Climate Change - International Environmental Policy – India’s Environmental Policy – Law and Environmental Protection in Indi		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
	Total Lecture hours	62 hours
Book(s) for study		
1	Charles D. Kolstad (2000): “Environmental Economics”, Oxford University Press, New York.	
2	U. Shankar (2000) ‘Environmental Economics, Oxford University Press, New Delhi	
3	Eugine T. (2005): “Environmental Economics”, Vrinda Publications, Pvt. Ltd, New Delhi.	
4	M. Karpagam (2000) ‘Environmental Economics’ Sterling Publisher Pvt.Ltd. New Delhi	
Book(s) for Reference		
1	Kanchan Chopra, Gopal K. Kadekodi (2001), Operationalising Sustainable Development, Sage Publication, New Delhi	
2	Edited by Rabindra N. Bhattacharya (2001), Environmental Economics, Oxford University Press, New Delhi	
3	M. Ravichandran and S. Boopathi (2007), Environmental Management: Issues potable water in Rural Tamil Nadu <i>Concept Publications</i> , New Delhi	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. S. Boopathi email.Id - somuboopathi@buc.edu.in		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	L	L	L	S	L	S	M
CO2	S	S	S	L	M	S	M	L	S	L
CO3	S	S	S	L	S	S	M	L	M	L
CO4	S	S	S	L	S	M	L	L	S	L
CO5	S	M	S	L	L	M	M	S	S	L

*S-Strong; M-Medium; L-Low



Course code	23ECOB1EB	BEHAVIOURAL ECONOMICS	L	T	P	C
Elective			5	-	-	4
Pre-requisite		Knowledge about welfare economics, human decision	Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Enable remember the classical theory of decision making 2. Enable to understand the theory of behavioural Economics. 3. Able to create the decision making policy through students research. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	To remember classical and neoclassical view of decision and to familiarizing with basic concepts of behavioural Economics					K1
2	To understand how humans are taking decision on the basis of incentives and norms					K2
3	To apply of nudge theory and policy design					K3
4	To apply the experimental Economics in the research					K4
5	To familiarize with behavior and environment					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	BEHAVIOURAL ECONOMICS				12 hours	
Introduction- Origin and Meaning of Behavioral Economics-History and Evolution of Behavioral Economics-Experimental Economics-Principles of Behavioral Economics						
Unit:2	INCENTIVES AND NORMS				12 hours	
Neo Classical Economics- The Classical Economic Tradition- Theories of Behavioral Economics- Traditional Economics and Behavioral Economics -Information and Uncertainty- Decision making under Risk and Uncertainty						
Unit:3	NUDGE AND POLICY DESIGN				12 hours	
Marketing and Behavioral Economics-Nudge- Meaning- Behavioral Game Theory-Bounded Rationality-Contribution of Behavioral Economics In Decision Making Process						
Unit:4	EXPERIMENTAL ECONOMICS				12 hours	

Course code	23ECOB1EC	INTRODUCTION TO INDUSTRY 4.0	L	T	P	C
Elective			5	-	-	4
Pre-requisite	Knowledge about Big data analysis, artificial intelligence and cyber security		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Artificial Intelligence 2. Big Data and Data Analytics 3. Internet of Things 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Know about What is Industry 4.0					K1
2	Know about What is AI and associated technologies					K2
3	Know about big data and internet of things					K3
4	Know about Tools of Industry 4.0					K4
5	Know about Jobs 2030					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	INDUSTRY 4.0.				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.						
Unit:2	ARTIFICIAL INTELLIGENCE				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:3	BIG DTA AND IoT				12 hours	
Big Data: Evolution – Data Evolution – Data: Terminologies – Big Data Definitions – Essential of Big Data in Industry 4.0 – Big Data Merits and Advantages – Big Data Components : Big Data Characteristics – Big Data Processing Frameworks – Big Data Applications – Big Data Tools – Big Data Domain Stack: Big Data in Data Science – Big Data in IoT – Big Data in Machine Learning – Big Data in Databases- Big Data Usecases : Big Data in Social Causes – Big Data for Industry – Big Data Roles and Skills – Big Data Roles – Learning Platforms; Internet of Things (IoT): Introduction to IoT – Architecture of IoT – Technologies for IoT – Developing IoT Applications – Applications of IoT – Security in IoT.						

Unit:4	APPLICATIONS AND TOOLS OF INDUSTRY 4.0	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.		
Unit:5	JOBS 2030	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		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	P. Kaliraj, T. Devi, Higher Education for Industry 4.0 and Transformation to Education 5.0 2020.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://www.himpub.com/documents/Chapter1170.pdf .	
2	https://epgp.inflibnet.ac.in/	
Course Designed By: Dr.T. Devi email.ID: tdevi@buc.edu.in		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	L	L	L	L	S	L	S	L	M	L
CO2	L	L	M	L	L	L	S	L	L	L
CO3	L	L	S	L	M	L	S	L	L	L
CO4	L	L	S	L	S	L	S	L	L	L
CO5	L	L	L	L	L	L	L	L	L	S

*S-Strong; M-Medium; L-Low



***Second
Semester***

Course code	23ECOB23A	MICRO ECONOMIC ANALYSIS –II	L	T	P	C
			5	-	-	4
Core						
Pre-requisite	Knowledge about the welfare economics and factor pricing theory		Syllabus Version	2023-24		
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> To gain sound knowledge in basic Economic theories, concepts and models. To gain sound knowledge to apply economic theories and models to execute managerial functions. To enable students to obtain managerial problems solving skills. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Recall various Micro Economic Theories					K1
2	Understand the managerial theories of a firm					K2
3	Analyse how factors of production are priced					K3
4	Analyse old and new theories of welfare economics					K4
5	Understand how the economy achieves partial and general equilibrium					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	THEORY OF FACTOR PRICING I				12 hours	
Marginal Productivity Theory of Distribution - Product Exhaustion Theorem (Euler and Clark) – Theories of Rent: Ricardian Theory, Modern Theory – Quasi Rent – Competitive Commodity Markets, Factor Pricing in Imperfect Commodity Market.						
Unit:2	THEORY OF FACTOR PRICING II				12 hours	
Theories of Wage – Subsistence Theory – Standard of Living Theory – Wage Fund Theory and <i>Residual Claimant Theory</i> – Collective Bargaining – Wage Differentials. Theories of Interest: Classical Theory, Time Preference Theory, Loanable Funds Theory, Liquidity Preference Theory and Modern Theory of Interest. Theories of Profit: Innovation Theory, Risk and Uncertainty Bearing Theory, Dynamic Theory, Wage Theory of Profit – Macro Theories of Distribution – Ricardian, Marxian, Kaleckils and Kaldor’s Theory of income distribution.						
Unit:3	THEORIES OF FIRM				12 hours	
Managerial Theory of Firm – Marris’s Managerial Theory – Baumol’s Sales Revenue Maximization Model – Williamson’s Model of Managerial Discretion – Full Cost Pricing: Bain’s Limit Pricing Theory, Behavioural Model of the Firm (Cyert and March) – Game Theoretic Model.						
Unit:4	WELFARE ECONOMICS				12 hours	
New welfare Economics – Compensation Principles – Hicks, Kaldor and Scitorsky - Social Welfare function: Pareto, Arrow’s Impossibility theory, Amartya Sen, on Arrow’s theorem – Equity Efficiency Trade off.						

Unit:5	GENERAL EQUILIBRIUM	12 hours
Partial and General Equilibrium Analysis – Existence, Stability and Uniqueness of Equilibrium - General Equilibrium in exchange and Production- Walrasian excess demand approach to general equilibrium.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	Jhingan, M. L. (2011), <i>Micro</i>	
2	Ahuja, H. L. (2011), <i>Managerial Economics (5th Edition)</i> , S. Chand & Company Ltd., New Delhi.	
Book(s) for Reference		
1	Koutsoyinnannis, A. (1979), <i>Modern Micro-Economics (2nd Edition)</i> , Macmillan Press, London.	
2	Dewett, K. K. (2005), <i>Modern Economic Theory (22nd Revised Edition)</i> , Shyam Lal Charitable Trust, New Delhi.	
3	Agarwal, H. S. (2008), <i>Microeconomic Theory (7th Edition)</i> , Ane Books India, New Delhi.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. R. Manikandan email.ID: maninoble@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	L	S	L	L	L
CO2	S	M	M	S	L	M	S	L	L	L
CO3	S	S	S	S	M	L	M	L	L	L
CO4	S	L	L	L	L	M	S	L	L	L
CO5	S	L	L	M	M	L	S	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB23B	MACRO ECONOMICS			
Core		L	T	P	C
		5	-	-	4
Pre-requisite	Basic knowledge about the national income concepts, investment, employment and macroeconomic policies.	Syllabus Version		2023-24	
Course Objectives:					
The main objectives of this course are to:					
1. To introduce the students on the sectoral flow of national income, its accounting and factors influencing income at current and constant prices.					
2. To enable students develop a critical insight on classical, Keynesian macroeconomic models and a functioning at four different market conditions.					
3. To make students to understand roll of expectation uncertainty and the relationship between inflation and employment.					
Expected Course Outcomes:					
On the successful completion of the course, student will be able to:					
1	Define and explain the process of calculating national income, identify its various components such as GDP, GNP, NNP, Per Capita Income etc and to illustrate the circular flow of income and analyze the various income and expenditure, to define and classification of social accounts.				K1
2	Understand classical theory of income, output, and employment, Fisher's Quantity theory, Say's law of market and Keynes criticism of classical theory. Discuss the principle of effective demand and distinguish between aggregate demand and aggregate supply.				K2
3	Explain the meaning of consumption function, and list out the propositions of Keynesian Psychological Law of Consumption and its determinants. To describe the types of investment.				K3
4	Discuss the relationship between investment and savings, and to apply investment multiplier and to list out the phases of business cycle, to compare the product and money market.				K4
5	Examine the concept of inflation and its classification, causes and effects of inflation and to simulate different measure to control inflation.				K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create					
Unit:1	NATIONAL INCOME AND SOCIAL ACCOUNTING	12 hours			
National Income – Concept and Measurement – GDP – GNP – NNP – Per Capita Income - Difficulties in the Measurement of National Income - Social Accounting – Presentation of Social Accounts - Importance of Social Accounting – Difficulties in Social Accounting- Circular flow of income and expenditure.					
Unit:2	THEORIES OF INCOME, OUTPUT AND	12 hours			

Classical Theory of Income, Output and Employment – Goods Market, Money Market – Fisher Quantity theory of money-Keynesian Theory of Income, Output and Employment – Say’s Law of Market – Implication of Laws - Principles of Effective Demand – Importance of Effective Demand – Aggregate Demand and Aggregate Supply.		
Unit:3	CONSUMPTION FUNCTION AND INVESTMENT	12 hours
Consumption Function – Properties, Keyne’s Psychological Law of Consumption – Determinants of the Consumption function – Investment function – Types of Investment – Factors affecting investment decisions of firms -Marginal Efficiency of Investment (MEI) – Saving and Investment Equality – Saving Function.		
Unit:4	ECONOMIC FLUELATIONS AND STABILIZATION	12 hours
Multiplier – Assumption – Leakages – Importance of Multiplier - Super Multiplier - Use of Super Multiplier in Business Cycles - Phases of Business Cycle – Acceleration – Assumptions - Income Determination – Product market and Money market – General Equilibrium.		
Unit:5	MONETARY MANAGEMENT AND MONETARY POLICY	12 hours
Monetary Policy: Objectives – Role of Monetary Policy in a Developing Economy – Fiscal Policy – Objectives – Instruments of fiscal policy in India -Inflation –Inflationary Gap – Demand pull – Monetary view and Friedman view Vs Cost push Inflation – Causes of Inflation – Measures to control Inflation – Effects of Inflation – The Phillips Curve: Short run and Long run.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	M.L. Jhingan “Advanced Economic Theory,” Vrinda Publications (P) Ltd.	
2	M.C. Vaish “Macro Economic Theory,” Vikas Publishing House (P) Ltd.	
3	R. D. Gupta and A.S. Rana “Keynes and Post Keynesian Economics,” Kalyani Publishers.	
4	Mankiw N. Gregory, Macroeconomics, Worth Publishers, New York.	
5	Shapiro Edward, Macroeconomic Analysis, Galgotia Publications Pvt. Ltd, New Delhi.	
6	Froyen Richard T. Macroeconomics-Theories and Policies, Macmillan Pub., Company, NY.	
7	Dornbusch R, Stanley Fischer, and Richard Startz, Macroeconomics, McGraw Hill Inc., NY.	
Book(s) for Reference		
1	Dornbusch Rudiger “Macroeconomics “McGraw Hill Publications	
2	Principles of Macroeconomics with Course Mate” by N Gregory Mankiw	
3	Ackley Gardner, Macroeconomics: Theory and Policy, Macmillan, New York.	
4	Blanchard Oliver, Macroeconomics, Pearson Prentice Hall, New Jersey.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	For more details > go to this link > https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11 > select Subject and Module	
Course Designed By: Dr. R. Govindasamy email.ID govindphd@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	L	S	L	L	L	L
CO2	S	L	L	L	L	M	S	L	L	L
CO3	S	L	L	L	L	L	S	L	L	L
CO4	S	L	S	M	M	L	S	L	L	L
CO5	S	S	M	S	L	L	M	S	L	M

*S-Strong; M-Medium; L-Low



Course code	23ECOB23C	ECONOMICS OF HUMAN RESOURCES	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the human resource development indicators, health care services	Syllabus Version	2023-24			
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. To familiarize theories and concepts of human resources. 2. To gain sound knowledge on human capital theories. 3. To enable the students to know about the importance of investment in health and education. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the importance of investment on education and health.					K1
2	Get an idea on basic concepts of Economics of human resources.					K2
3	Develop necessary skill set for investment in Education of Economic development.					K3
4	Assess the issues of social security measures in India and operation of labour market.					K4
5	Comprehend the types of migration and reasons for migration.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	HUMAN RESOURCE AND ECONOMIC DEVELOPMENT					12 hours
Importance of Human Resource- Human Resource and Economic Development- Investment in Human Capital —Unemployment-Meaning, Kinds, Causes and Remedies.						
Unit:2	INVESTMENT ON EDUCATION					12 hours
Importance of Education- Education and Economic Development – Importance of Women’s Education- Issues in Education -Higher Education in India – Privatization of Education.						
Unit:3	INVESTMENT ON HEALTH					12 hours
Investment in Health – Private Sector in Health Care Services, Healthcare Expenditure in India- Healthcare issues and Challenges- Health Insurance for the Poor – Economic Impact of COVID-19.						
Unit:4	LABOUR MARKET					12 hours
Theories of Labour Market- Wage Theories – Trade Unions – Labour Market discrimination- wage discrimination - Social Security Measures in India – Organised and unorganized Labour Market.						
Unit:5	MIGRATION					12 hours

Migration- Types of Migration: Internal and External- Reasons for Migration- Theories of Migration: Micro and Macro –Causes and Consequences- Brain Drain in India.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
	Total Lecture hours	62 hours
Book(s) for study		
1	Becker. G.S Human Capital (1993), The University of Chicago Press, Third Edition)	
2	Blaug.MAn introduction to Economics of Education, Penguin Books. Economics of Education-Vol -I & II, Penguin Books and ELBS.	
3	Schultz.T.WEconomic Value of Education. Newyork: Colombia University Press, 1963.	
Books(s) for Reference		
1	Psacharapoulos.G Returns to Education. (1973) Taylor & Francis, Ltd.	
2	Psacharapoulos.G Economics of Education-Research Studies Program Press Publisher Peramon(November 16, 2013).	
	Human Resource Development in Healthcare, Excel Book Publication (January 1, 2009).	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	file:///C:/Users/System%20I/Downloads/economics_human_resources.pdf	
2	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=1610	
3	https://epgp.inflibnet.ac.in/	
4	https://books.google.co.in/books?id=8utBh4WI4t8C&num=14	
Course Designed By: Dr. A. Sangamithra email.ID- <u>sangamithra@buc.edu.in</u>		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	L	L	S	S	S	L	M
CO2	S	S	S	L	L	S	S	S	M	L
CO3	S	S	L	S	M	M	S	L	S	M
CO4	S	S	S	L	L	M	S	S	L	L
CO5	S	M	S	L	L	M	S	S	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB23D	RESEARCH METHODOLOGY	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about project report writing	Syllabus Version	2023-24			
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> To understand a general definition of research design. To familiar with Economic issues in social research, including those issues that arise in using quantitative and qualitative research. To able to frame the statement, a research question or hypothesis, and a research objective. To study the various types of probability sampling and non-probability, which ones to be adopted. To describe the conceptual and practical features of several major techniques for analysing data obtained from quantitative applied economic research. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Able to employed the methodological designs and select appropriate analytical strategies for their research projects.					K1
2	Understand the interpretation and appropriate reporting requirements for statistical and quantitative and qualitative data.					K2
3	Able to apply advanced knowledge in statistics to experimental and applied research.					K3
4	Understand basic probability, the use of probability distributions, sampling and the fundamentals of hypothesis testing.					K4
5	Apply and interpret the different forms of parametric like z-test, t-tests, ANOVA and non parametric test such as chi squared test for testing of hypothesis and write scientific report and paper for quality publications.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	INTRODUCTION OF RESEARCH				12 hours	
Meaning of Research – Significance of Research -Type of Research - Objectives of Research – The formulation of Research Problem – Scientific Research – Formulation of Hypothesis – Research Design: Variables- Exploratory, Descriptive and Experimental Research – Theoretical Frame Work – Concepts – Review of literatures						
Unit:2	SOURCES OF INFORMATION				12 hours	
Sources of Data: Primary and Secondary Sources – Methods of Data Collection: Census and Sample survey – Scaling Data – Data Collection Instruments: Observation, Interview Schedules and Questionnaires, Focus Group Discussion, online collection - Secondary Sources: Census, NSSOs, Annual Survey						
Unit:3	SAMPLING AND FUNDAMENTAL ANALYSIS				12 hours	

Sampling Design: Probability and non-probability Sampling Methods - Sample Size Determination – Data Analysis: Frequency Table, Multivariate table Chat -Measures of Central Tendency: Mean, – Measures of Dispersion: Range, Mean deviation, Standard Deviation, Variance, Coefficient of Variation –		
Unit:4	DATA DISTRIBUTION AND METRIC AND NON METRIC ANALYSIS	12 hours
Elementary Theory of Probability: Probability Distribution and Their Properties: Binomial, Poisson and Normal Distributions. Testing of Hypothesis: Parametric and Non-Parametric Tests –Testing of Hypothesis: ‘Z’ test, ‘t’ test, ‘F’ test and One Way ANOVA, Multivariate ANOVA, ANCOVA - Chi square test – Index Numbers – Regression - Factor Analysis		
Unit:5	SCIENTIFIC REPORT WRITING AND PRESENTATION	12 hours
Presenting Results: Written and oral Reports – Stages in Drafting Written Research Report – Layout of Research Report – Footnotes and Bibliography. Research paper writing –content –structure – publications raking: (Impact factor, H Index, ISSN, ISBN)		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s) for study		
1	Johnson L.G. (1986) Research Methodology for Economists, (Philosophy and Practice), MacMillan.	
2	C.R.Kothari (1988) Research Methodology, Methods and Techniques - Willey Eastern Ltd., 1988.	
3	Sankar W & Lakshmanasamy T. (1993) Methodology of Applied Economics Research, Sterling Publishers Pvt.Ltd, New Delhi.	
4	W.J.Goode and Heete.P.K. (1993) Methods in Social Research, McGraw Hill Ltd., New Delhi.	
Book(s) for Reference		
1	Lipsey G.R. & (1995) An Introduction to positive Economics/EL/BS/Chrystal.K.A. with Oxford University Press, Madras.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=33	
Course Designed By: Dr. S. Boopathi email.ID- somuboopathi@buc.edu.in		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	S	L	M	L	L	L	S	L
CO2	S	L	S	L	S	L	L	L	S	L
CO3	S	M	S	L	S	L	M	L	S	L
CO4	S	L	S	L	S	L	L	L	S	L
CO5	S	L	S	L	S	L	L	L	S	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB2EB	MARKETING MANAGEMENT	L	T	P	C
Elective			5	-	-	4
Pre-requisite	Knowledge about the market structure, consumer behavior and marketing strategy		Syllabus Version		2023-24	
Course Objectives:						
<ol style="list-style-type: none"> 1. Acquire basic knowledge about the functions of market. 2. Understand the product planning and development. 3. Apply the principles marketing in scientific decision making process and problem solving in modern marketing management process. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Remember the marketing concepts.					K1
2	Understand the behaviour of consumers in marketing.					K2
3	Apply the management issues and challenges involved in marketing.					K3
4	Analyse the how products are priced, promoted and physically distributed.					K4
5	Create the new consumer protection act in the current scenario.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	INTRODUCTION				12 hours	
Nature, Scope and Importance of Marketing - Evolution of Marketing Concept – Marketing Environment – Functions of Marketing, Features of Modern Marketing – Market Segmentation: Concept, Benefits, Methods – Consumer Behaviour – Buying Motives, Theories.						
Unit:2	PRODUCT AND PRICING				12 hours	
Concept of Product – Product Planning – New Product Development, Meaning and Steps – Product Life Cycle – Pricing: Significance and Factors Affecting Pricing – Pricing Objectives – Pricing Policies – Kinds of Pricing – Pricing of New Product.						
Unit:3	PHYSICAL DISTRIBUTION				12 hours	
Importance of Distribution Channel – Kinds of Channel Members – Factors Influencing Distribution Channel - Types of Middlemen – Function of Middlemen – Inventory Control.						
Unit:4	PROMOTION				12 hours	
Product Promotion – Meaning, Objectives and Methods of Product Promotion. Advertising: Meaning, Objectives and Kinds of Advertising – Scientific Advertising – Advertising Management – Personal Selling: Meaning and Importance of Personal Selling – Kinds of Salesmen – Selling Process.						

Unit:5	MARKETING AND SOCIETY		12 hours							
Need for Consumer Protection – Measures for Consumer Protection – Consumerism – Evolution and Approaches to Consumerism – Laws to Protect Consumers, E - marketing (online)										
Unit:6	Contemporary Issues		2 hours							
Expert lectures, online seminars – webinars										
			Total Lecture hours	62 hours						
Book(s) for study										
1	Gupta C.B. &Rajan Nair. N: Marketing Management, Sultan Chang & Sons,New Delhi.									
2	Ramasamy V.S. and Namakumari. S: Marketing Management, Macmillan India, New Delhi.									
3	Dr.Amit Kumar and Dr.B.Jagdish Rao: Marketing Management, SahityaBhawan Publications, Agra.									
	Dr.PriyankaGite: Marketing Management, Taxmann Publication (P) Ltd., New Delhi.									
Book(s) for Reference										
1	Philip Kotler: Marketing Management Practice – Prentice – Hall of India, New Delhi.									
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=23									
2	https://www.economicdiscussion.net/marketing-management/what-is-marketing-management/31788#:~:text=Marketing%20management%20is%20E2%80%9Cplanning%2C%20organising,of%20generating%20an%20acceptable%20profit.%E2%80%9D									
Course Designed By: Dr. R. Manikandan email.ID - maninoble@gmail.com										
Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	S	M	L	M	M	L	L	L
CO2	S	M	S	S	M	S	S	L	L	L
CO3	S	L	S	S	L	L	M	L	S	L
CO4	S	L	S	S	M	L	M	L	L	L
CO5	S	L	L	L	L	S	S	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB2EC	INDUSTRIAL ECONOMICS	L	T	P	C
Elective			5	-	-	4
Pre-requisite	Knowledge about production function and technical efficiency		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Introduce to the students the various concepts and framework of study of Industrial Economics 2. Enable the students to measure productivity numerically using mathematical and econometric techniques. 3. Make students to take decision on investment and understand the legal framework based on the numerical measurements. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Remember the various concepts of industrial economics					K1
2	Understand the meaning of firm and industry and measure industrial efficiency					K2
3	Measure the industrial productivity					K3
4	Analyse financial ratios and evaluate projects					K4
5	Evaluate the legal frame work and instruments of industrial regulations.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	CONCEPTS AND FRAMEWORK OF INDUSTRIAL ECONOMICS				12 hours	
Concept and Framework of the Study of Industrial Economics - Meaning of the Firm and Industry- Industrial Efficiency: Meaning and the Determinants of Economic Efficiency- Measurement of the Efficiency Levels- Types of Organisational Form- Business Motives.						
Unit:2	THEORY OF COST AND PRODUCTION				12 hours	
Cost Concepts – The Theory of Cost and Production - The Concept of Production Function and Optimal Input Mix- The Efficiency and Size of the Firm- Market Concentration- Measurement of Market Concentration and monopoly power.						
Unit:3	INDUSTRIAL PRODUCTIVITY AND PROFITABILITY				12 hours	
Concept of Total Factor Productivity Index – Methods of Estimation: Kendrick – Solow – Divisia – Malmquist – Labour Productivity and its Determinants – Concept of Profitability and its measurement.						
Unit:4	INVESTMENT DECISIONS				12 hours	
Financial Ratio Analysis- Classification of Financial Ratios- Methods of Project Evaluation: NPV, Payback Method, IRR, ARR, Cost-Benefit Analysis- - Appraisal of Public Projects – Replacement Decision - Inventory Investment Approach.						

Unit:5	INDUSTRIAL LOCATION AND GOVERNMENT REGULATION	12 hours
The General Determinants of Industrial Location - Theories of Industrial Location, 'The Geographical Theories and Economic Theories of Industrial Location' - Legal Framework and Instruments of Industrial Regulations in India.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	Sanhey S. C. "Productivity Management: Concepts and Techniques," Tata McGraw Hill, New Delhi.	
2	Heathfield F.D. "An Introduction to Cost and Production Functions." Macmillon Education & Soren Wibe London.	
3	Barthwal. R.R. "Industrial Economics", New Age International Publishers, New Delhi	
Book(s)for Reference		
1	Rajan Mishra. Industrial Economics and Management Principles Firewall Media, 2008	
2	Various Industrial Surveys	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. P. Shanmugam		email.ID <u>bushanmugam@gmail.com</u>

Mapping with Programme Outcomes										
COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	S	L	L	M	L	M	M	S	L	L
CO2	S	M	S	L	S	L	M	M	L	L
CO3	S	L	S	M	S	L	M	L	L	L
CO4	S	L	S	M	S	L	M	L	L	L
CO5	S	L	L	S	L	L	M	L	L	L

*S-Strong; M-Medium; L-Low



***Third
Semester***

Course code	23ECOB2ED	OPERATIONS RESEARCH	L	T	P	C
Elective			5	-	-	4
Pre-requisite		Knowledge about linear programming, matrices, set theory and cost theory	Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
1. To introduce the students to the basic operation research techniques such as Linear Programming, Game theory, Input-output analysis, PERT and CPM and inventory control that are widely used in decision making.						
2. To enable the students to apply these technique in current business practices.						
3. To make them draw inference based on the numerical results obtained.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Define the role of quantitative techniques in the field of industry. Construct the different types of models.					K1
2	Express the knowledge of basic concepts of linear programming, and its advantage and limitations and to solve linear programming problems' relate to basic techniques in economics.					K2
3	Understand the concept of transportation and assignment problem and to analyze various types of problem.					K3
4	Construct the network diagram and to determine the critical path, to apply it in real life project scheduled in time and timing delivery					K4
5	Demonstrate the basic concepts of inventory and to solve the inventory by applying ABC technique and its classification.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	QUANTITATIVE TECHNIQUES AND INTRODUCTION					12 hours
Operations Research – Meaning – Significance – Features –Scope and Applications.						
Unit:2	LINEAR PROGRAMME: GRAPHICAL METHOD					12 hours
Linear Programming – Structure – Assumptions – Advantages – Limitations – General Mathematical Model and Problems. Graphical Solution Method LP Problems – Important Definitions – Feasible Solution.						
Unit:3	TIME MANAGEMENT MODELS					12 hours
Transportation Problem – Network Representation of Transportation Model - Structure – Types of Transportation - Methods for Finding an Initial Solution – NWCM, LCM, VAM - Degeneracy – Optimal Solution – Assignment Problem - Types - Algorithm – Variations.						

Unit:4	NETWORK MODELS	12 hours
Net Work Analysis – PERT/CPM Network Components – Critical Path – Time Estimates – Determination of Critical Path – Waiting Lines Models.		
Unit:5	INVENTORY MODELS AND SIMULATION	12 hours
Inventory: Functions – Steps – Need for Inventory Control – EOQ different Models – Inventory Control Approach – ABC Analysis. Simulation –Advantages and Disadvantages - Monte Carlo Method – Inventory Simulation Model – Decision Tree Analysis – Game Theory – Concept, Types of Games - Pay-off Tables, Types – Pure, Mixed and Optimum Strategies –Max-Min Principle- Value of Game - Dominants Properties		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	K. Sharma “Operations Research: Theory and Applications,” Mamillan.	
2	C.V. Shenoy, U.K. Srivastava and S.C. Sharma “Operations Research,” Wiley Eastern Ltd.	
3	Ronald L. Rardin, “Optimization in Operation Research,” Prentice Hall.	
4	Nd Vohra, <i>Quantitative Techniques In Management</i> , Mc Graw Hill, 4th Edition, New Delhi.	
Book(s) for Reference		
1	Phillips, Solberg Ravindran Operations Research: Principles and Practice, 2ed (WSE) Wilev Eastern Ltd.	
2	Kanti Swarup,p.k Gupta Maanmohan “operation research“sultan chand sons.	
3	C. R. Kothari, <i>Quantitative Techniques</i> , Vikas Publications, New Delhi.	
4	W.J. Baumol, <i>Economic Theory and Operation Analysis</i> , Englewood Cliff, PrenticeHall, NJ.	
5	T. Mariappan – Operation Research	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	For more details > go to this link > https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11 > select Subject and Module	
Course Designed By: Dr. R. Govindasamy email.ID govindphd@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	S	M	S	L	L	L	L	L
CO2	S	L	S	L	S	L	L	L	L	L
CO3	S	S	S	L	S	M	L	L	M	M
CO4	S	L	S	L	S	S	L	L	L	L
CO5	S	L	S	L	S	L	L	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB33A	ECONOMETRICS	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the mathematics and statistics such as regression, OLS and etc.		Syllabus Version	2023-24		
Course Objectives:						
The main objectives of this course are to:						
1. Understand the estimation techniques, learned the difficulties involved in the estimation process, evaluation of parameters and enable understanding scientific decision making process.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Identify the concepts of Econometrics					K1
2	Provide theoretical background for the standard methods used in empirical analysis, like properties of least squares estimators and the statistical testing of hypothesis.					K2
3	Become a qualified user of econometric methods					K3
4	Equip with the necessary skills needed for empirical and problem oriented research using relevant econometrics techniques.					K4
5	Perform statistical tools and interpret linear regression model					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	OLS METHOD				12 hours	
Nature, Meaning and Scope of Econometrics- – Methodology of Econometric Research – Simple Linear Regression Model – Method of OLS – Assumptions – Properties of Least Squares Estimators – Coefficient of Determination R^2 and Adjusted R^2 – Goodness of Fit - Relationship between Coefficient of Correlation r and R^2 (Mooc).						
Unit:2	TESTING OF HYPOTHESIS				12 hours	
Interval Estimation – Confidence Intervals for Regression Coefficients β_1 and β_2 – Hypothesis Testing: Confidence Interval Approach and Test of Significance approach – The t Test – Meaning of Accepting or Rejecting a Hypothesis (Mooc).						
Unit:3	MULTIPLE REGRESSION MODEL				12 hours	
Multiple Regression Analysis: Assumptions - The Two and Three Variable Models – Interpretation of Multiple Linear Regression Model.						
Unit:4	MULTICOLLINEARITY AND AUTOCORRELATION				12 hours	
Nature of Multicollinearity – Estimation in the Presence of Multicollinearity – Theoretical and Practical Consequences of Multicollinearity – Detection of Multicollinearity – Remedial Measures. Autocorrelation: Nature – Causes – Consequences - Durbin Watson Test – Remedial Measures.						

Unit:5	HETEROSCEDASTICITY AND DUMMY VARIABLE	12 hours
Heteroscedasticity Definition – Consequences – Tests: Spearman Rank Correlation Test – Goldfeld and Quandt Test – Park Test - Regression with Qualitative Independent Variables (Swayam): Regression Models with Dummy Variable – Logit Model – Concept and Estimation – Dummy Variable Trap.		
Note: Problems may be asked only from the following areas		
a) Correlation b) Estimation of Parameters as per OLS/GLS Mode c) Test of Significance		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s) for Study		
1	Koutsoyiannis.A, "Theory of Econometrics: An Introductory Exposition of Econometric Methods", Educational Low-Priced Books Scheme, McMillan Education Ltd.,(1992).	
2	Damodar Gujarathi "Basic Econometrics", Tata MCGraw Hill Ltd,1999.4th ed.	
Book(s)for Reference		
1	Suresh K.Ghose “Econometrics”, prentice Hall of India private limited, New Delhi.	
2	Goldberger A.S. (1998), Introductory Econometrics, Oxford University Press, Cambridge, Mass.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://www.udemy.com/course/correlation-regression-concepts-with-illustrative-example/	
2	https://www.udemy.com/courses/search/?q=hypothesis%20testing&src=sac&kw=hypothes	
3	https://swayam.gov.in/nd2_cec20_hs35/	
Course Designed By: Dr. P. Shanmugam email.ID: <u>bushanmugam@gmail.com</u>		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	S	M	S	L	L	L	L	L
CO2	S	L	S	L	S	L	M	L	L	L
CO3	S	L	L	L	S	L	L	L	L	S
CO4	S	S	S	L	S	L	S	L	M	L
CO5	S	S	S	L	S	L	S	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB33B	AGRICULTURAL ECONOMICS	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the agricultural sector including types of market, labour, green revolution and market yard.		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
1. To familiarize the concept of agricultural economics.						
2. To provide strong knowledge base on institutional and non-institutional agricultural credit.						
3. To develop a critical study on agricultural marketing efficiency.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Define the importance of agriculture in economic development.					K1
2	Explain green revolution and its inputs. Define agricultural labour and to determine the poor economic conditions of agricultural labour.					K2
3	Understand the sources of agricultural credit which supports to farmers.					K3
4	Discuss the function of marketing and to indicate the different marketing structures in India.					K4
5	Identify the objective and instruments of agriculture price policy in India. Agmark and its role in agricultural sector.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	AGRICULTURE IN ECONOMIC DEVELOPMENT					12 hours
Agricultural economics – definition and scope. Importance of Indian Agriculture. Agriculture Productivity – Factors and causes that determine the agricultural productivity. Law of returns.						
Unit:2	AGRICULTURAL RESOURCES					12 hours
Green Revolution - IADP - Agriculture Inputs: Fertilizers and Plant Protection, Irrigation and Farm Mechanization - Concept of Agricultural Labourer – Growth, Causes of Growth - Conditions and Problems of Agricultural Laborers and Measures Taken - Migrant of Agriculture Labour and its effects.						
Unit:3	CAPITAL AND CREDIT					12 hours
Role of Capital in Agriculture - Sources of Capital - Need for Agricultural Credit - Classification of Agricultural Credit - Source of Agricultural Credit: Non-institutional and Institutional – Crop Insurance - Capital Formation in Agriculture Sector – Rural Indebtedness and its causes.						
Unit:4	MARKETING					12 hours
Functions of Marketing - Characteristics of Agricultural Produce – Problems in Marketing of Agricultural Produce in India – Measures Taken by Government – Regulated Markets – Co-Operative Marketing – Marketing Channel - Marketed and Marketable Surplus, Marketing Risk, Marketing Costs and Margin - Marketing Efficiency – Risks and Uncertainty.						

Unit:5	PRICE POLICY AND PUBLIC DISTRIBUTION	12 hours
Need for and Objectives of Agricultural Price Policy - Instruments of Agricultural Price Policy in India: Minimum Support, Procurement and Issue Prices - Public Distribution - TPDS – Buffer Stock –Quality Control and Agmark– Agricultural Trade and Balance of Payment with Special Reference to Agricultural Commodities.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s) for study		
1	S.Subbareddy, P.Raghu Ram, T.V.Neelakanta Sastry, I.Bhavani Devi. “Agricultural Economics” cbs publisher New Delhi.	
2	R.G. Desai “Agricultural Economics” Himalaya Publishing House (p) ltd	
3	Sadhu &Singh “Fundamentals of Agricultural Economics” Himalaya Publishing House	
4	R. K. Lekhi Joginder Singh, Kalyani Publishers, Ludhiana – New Delhi	
Book(s) for Reference		
1	S.S.Johl and Kapur – Fundamentals of Farm Business Management, Kalyani Publishers.	
2	A.N.Sharma and V.K.Sharma:- Elements of Farm Management, Prentice-Hall of India Ltd	
3	Sadhu and Singh - fundamentals of Agriculture Economics, Himalaya Publishing House, Bombay.	
4	Rudder Datt and K P M Sundaram- Indian Economy, S.Chand & Company Ltd, New Delhi.	
5	Bhalla G.S and Gurnail Singh (2001) , Indian Agriculture, Sage Publishers, New Delhi.	
6	Bilgram, S. A. R. (1996), Agricultural Economics, Himalaya Publishing House,Delhi.	
7	Dhawan, B.D.(1988), Irrigation In India’s Agricultural Development, Sage Publications, New Delhi.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	For more details > go to this link > https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11 > select Subject and Module	
Course Designed By: Dr. R. Govindasamy email.ID govindphd@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	L	S	M	S	M	L	L
CO2	S	L	L	L	L	S	S	M	L	L
CO3	S	L	L	S	L	M	M	L	L	L
CO4	S	M	M	L	L	S	M	L	M	L
CO5	S	L	L	S	L	M	L	L	L	M

*S-Strong; M-Medium; L-Low

Course code	23ECOB33C	PUBLIC ECONOMICS	L	T	P	C
Core				5	-	-
Pre-requisite	Knowledge about the taxation, budget policy, fiscal policy and growth of public expenditure	Syllabus Version	2023-24			
Course Objectives:						
The main objectives of this course are to:						
1. To gain sound knowledge on the principles of public finance.						
2. To understand roles of different governments.						
3. To provide a strong knowledge base on Indian public finance.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Know the concepts of public goods, social goods, public expenditure, budget and taxation.					K1
2	Understand the role of government for economic development.					K2
3	Attain the advantages and knowledge of public expenditure and other government expenditures.					K3
4	Realize the importance of fiscal policy in India.					K4
5	Recognize the drivers of change in the government polices.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	PUBLIC GOODS AND MARKET FAILURE					12 hours
Role of Government in Managing Economy under Different Economic Systems –Theory of Public Goods - Need for Public Goods - Market Failure – Externalities.						
Unit:2	STRUCTURE AND GROWTH OF PUBLIC EXPENDITURE					12 hours
Public Expenditure: Theories of Public Expenditure – Reasons for the Growth of Public Expenditure– Expenditure Programmes for the Poor.						
Unit:3	BUDGET POLICY OF INDIA					12 hours
Budget – Concept of PPB – Zero-based Budgeting – Deficit Budgeting – types of Deficits – Public Debt: Debt Management.						
Unit:4	TAXATION AND ECONOMIC DEVELOPMENT					12 hours
Taxation: Theory of Taxation – Benefit and Ability-to-Pay Approaches –Direct and Indirect Taxes – Chelliah Committee Report – Evaluation of Tax Reforms –Taxation and Economic Development – GST- Structure.						
Unit:5	FISCAL POLICY					12 hours

Fiscal Policy – Role of Fiscal Policy in India – Principles of Fiscal Federalism in India — Finance Commissions – NITI Aayog - Local Finance.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	Dr. B.P. Tyagi “Public Finance,” Jai Prakash Natu& (O). (2016)	
2	R. A. Musgrave and P. B. Musgrave (1989): Public Finance in Theory and Practices. McGraw Hill.	
3	R.C. Agarwal “Public Finance Theory &Practises,” Lakshmi NarainAgarwal, 2002.	
Book(s) for Reference		
1	S.N. Chand“Public Finance”, Volume 1 (2008).Atlantic Publishers & Dist.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://books.google.co.in/books/about/Public_Finance.html?id=E6y-epRtZ38C	
2	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
3	https://epgp.inflibnet.ac.in/	
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Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	S	L	L	L	S	L	L
CO2	S	L	L	M	L	L	M	L	L	L
CO3	S	L	L	M	L	L	M	L	L	L
CO4	S	L	L	S	L	L	L	L	L	L
CO5	S	L	L	M	L	L	M	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB33D	HISTORY OF ECONOMIC THOUGHT		L	T	P	C
Core				5	-	-	4
Pre-requisite		Basic Knowledge about the classical, neo-classical and modern economist theory		Syllabus Version		2023-24	
Course Objectives:							
The main objectives of this course are to:							
1. To understand Economic thought of different periods.							
2. To gain knowledge of leading economists of the world							
3. To analysis Economic ideas of different economist.							
4. To understand economic ideas of Indian economists.							
Expected Course Outcomes:							
On the successful completion of the course, student will be able to:							
1	Understand the History of Economic thought						K1
2	Review the classical economic thought						K2
3	Analyse the views of marginalists						K3
4	Analyse the modern economic thought						K4
5	View the Indian economic thought						K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create							
Unit:1		EARLY PERIOD				12 hours	
Nature and Importance of History of Economic Thought – Ancient Economic Thought –Aristotle, Plato-Medieval Economic Thought – Contribution of Early Muslim Scholars to Economic Thought: Abu Yusuf, Marwadi, Gazali, Ibn Themiah, Ibn Hazm and Ibn Khaldun, Mercantilism: Main Characteristics – Physiocracy: Main Characteristics .							
Unit:2		CLASSICAL PERIOD				12 hours	
Adam Smith (e-pathsale)– David Ricardo – Thomas R. Malthus – German Romantics and Socialists – Sismondi, Karl Marx – Economic Ideas of J.B.Say – J.S.Mill – Historical School: Senior, List.							
Unit:3		MARGINALISTS:				12 hours	
The Precursors of Marginalism – Cournot, Thunen, Gossen – The Marginalist Revolution – Jevons, Walras and Menger-Bohm-Bawerk, Wicksell and Fisher – TRe rate of Interest – Wicksteed and Weiser – distribution-Marshall As a Great Synthesizer – Pigou: Welfare Economics(free videos) – Schumpeter: Role of Entrepreneur and Innovations.							
Unit:4		MODERN ECONOMISTS:				12 hours	
J M Keynes And His Contributions A Treatise on Money (e path sale)– The General Theory of Employment, Interest and Money.							

Unit:5	INDIAN ECONOMIC THOUGHT	12 hours
Early Economic Ideas: Kautilya, Valluvar – Modern Economic Ideas: Naoroji, Ranade, R.C.Dutt, Gokhale, J.K.Metha and M.N.Roy – Economic Ideas of Gandhi:(free videos) Village, Swadesi, Place of Machine and Labor, Cottage Industries, Trusteeship – Early Approaches to Planning – Cooperation as a Strategy – Contributions of Vakil, Gadgil and VKRV Rao – Economic Thought of Dr.Ambedkar.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s) for study		
1	Bhatia H.L (1994), History of Economic Thought, Vikas Publishing House, New Delhi.	
2	Ganguli,B.N(1977), Indian Economic Thought: A Nineteenth Century Perspective, TMH, New Delhi.	
3	4. Seshari,G.B (1997), Economic Doctrines,B.R.Publishing Corporation, New Delhi.	
Book(s)for Reference		
1	Haney(1977), Economic Thought	
2	Gide and Rist Economic Thought.	
3	Shanmugasundaram.V(1981), Indian Economic Thought and Policy,S.Chand, New Delhi.	
4	Ghosh,B.N and R.Ghosh(1988), Concise History of Economic Thought.	
5	Readings in Islamic Economic Thought Edited by Abul Hassan M. Sadeq and Aidit Ghazali, Longman, Malaysia, 1992.	
6	Roll,Eric, History of Economic Thought.	
7	M.C.Jhingan History of Economic thought 3 rd edition Vrinda publication New Delhi 2011.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	Free video lectures.com/course/2457/history-of-Economic-Thought	
Course Designed By: Dr.P.Shanmugam email.ID: bushanmugam@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	S	M	M	S	L	L	L
CO2	S	L	L	S	M	M	S	L	L	L
CO3	S	L	L	S	M	M	S	L	L	L
CO4	S	L	L	S	M	M	S	L	L	L
CO5	S	L	L	S	M	M	S	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB33D	RURAL ECONOMICS	L	T	P	C
Elective				5	-	-
Pre-requisite	Knowledge about the rural economic problems in India		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Give an idea on various aspects of rural economy of India 2. Gain sound knowledge about rural economy and rural development programmes. 3. Enable the students to rethink the village economy and its development 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Remember the concepts of rural economy of India					K1
2	Understand India's rural background					K2
3	Analyse how agriculture and industries promote rural economy					K3
4	Find solutions to eradicate poverty and unemployment					K4
5	Guide the rural people to be with rural development programmes					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	INTRODUCTION					12 hours
Concept, Meaning and Definition of Rural Development- Nature and Scope of Rural Economics Causes for Rural Backwardness - Features and components of Rural Development.						
Unit:2	AGRICULTURE AND ECONOMIC DEVELOPMENT					12 hours
Agricultural Development Under the Plans (ePathsala) - Organizational Aspects of Agriculture: Land Reforms - Green Revolution - Cropping Pattern – Dry and Wet Land Farming - Agriculture Finance and Marketing - Information Technology in Agriculture.						
Unit:3	RURAL INDUSTRIALIZATION					12 hours
Concept - Importance of Rural Industrialization - Village and Cottage Industries - Policies and Programmes for the Development of Rural Industries - Rural Industrial Sectors: Handloom - Handicrafts.						
Unit:4	UNEMPLOYMENT AND POVERTY					12 hours

Unemployment and Underemployment in Rural Areas- Problems – Causes – Poverty: Causes of Rural Poverty (ePAthsala)- Poverty alleviation programmes in India- Poverty alleviation through Micro Finance and SHGs - Empowerment of Rural Women through Self Help Groups - Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA).										
Unit:5	RURAL DEBT AND CREDIT								12 hours	
Rural Debt: Meaning – Causes and consequences - Sources of Rural Credit -Institutional and Non Institutional Credit for Rural Development in India - Commercial Banks - Cooperative Banks – NABARD - Rural Insurance.										
Unit:6	Contemporary Issues								2 hours	
Expert lectures, online seminars – webinars										
Total Lecture hours								62 hours		
Book(s) for study										
1	Sundaram, Satya,I.: Rural Development, Himalaya Publishing House									
2	Desai Vasant.: Rural Development- Programmes and Strategies, Himalaya Publishing House, Mumbai.									
3	Mukundan, N.: Rural Development and Poverty Eradication in India, New Century, New Delhi.									
Book(s)for Reference										
1	Soni, R.N.: Leading Issues in Agriculture Economics,Vishal Publishing Company									
2	Reddy,Venkata.K.: Agriculture and Rural Development (A Gandhian Perspective), Himalaya Publishing House.									
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11									
Course Designed By: Dr. P. Shanmugam					email.ID – <u>bushanmugam@gmail.com</u>					

Mapping with Programme Outcomes										
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	L	M	M	L	L
CO2	S	S	L	L	L	S	L	L	L	L
CO3	S	L	S	L	S	L	S	L	M	L
CO4	S	L	L	S	L	L	S	S	L	L
CO5	S	S	M	L	L	S	L	L	S	S

*S-Strong; M-Medium; L-Low

Course code	23ECOB3EC	ECONOMICS FOR ADMINISTRATION	L	T	P	C
Elective			5	-	-	4
Pre-requisite	Knowledge about the National Income concepts, budget policies, stock market and SEBI		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Enable the students to appreciate the utility of economics in day – to day life. 2. Gain sound knowledge on Economic Administration. 3. Prepare the Competitive Exams 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Remember the various concepts of National Income					K1
2	Understand the Tax structure in India and Government Budget.					K2
3	Understand the functions of Money market, Capital market and Securities Exchange Board of India.					K3
4	Understand and apply the concepts in economics for decision and policy making.					K4
5	Analyse the functions of Stock market in India					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	NATIONAL INCOME					12 hours
Concept of National Income -Circular flow of income; Methods of calculating National Income: Value Added or Product method, Expenditure method, Income method. Concepts and Aggregates Related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP) – at Market Price, at Factor Cost; National Disposable Income (Gross and Net), Private Income, Personal Income and Personal Disposable Income; Real and Nominal GDP-GDP and Welfare.						
Unit:2	GOVERNMENT BUDGET AND THE ECONOMY					12 hours
Concept and Types of Tax – Direct Tax and Indirect Tax, Goods and Service Tax (GST), Structure of GST (SGST, CGST, UTGST & IGST), GST Council; Budgetary Procedure-Types of Budget-Classification of Receipts: Revenue Receipt and Capital Receipt; Classification of Expenditure : Revenue Expenditure and capital expenditure; Various Measures of Government Deficit : Revenue Deficit, Fiscal Deficit, Primary Deficit-their Meaning and Implications.						
Unit:3	REVENUE RESOURCES AND PUBLIC DEBT					12 hours
Deficit Financing and Methods - An Evaluation of Fiscal Policy of Government of India – Highlights of Recent Budget; Sources of Public Debt-Internal and External Debt; Burden of Public Debt; Redemption of Public Debt; Debt Trap; Role of Public Debt with Special Reference to Developing Countries.						

Unit:4	MONEY MARKET AND CAPITAL MARKET	12 hours
Nature and Functions of Indian Money Market and Indian Capital Market - Stock Markets - Meaning and functions of Stock Market - Functions of Securities Exchange Board of India (SEBI). Credit Control: Quantitative Measures: Bank Rate -Open Market Operations - Variable Reserve Ratio - Statutory Liquidity Ratio - Qualitative Credit Control: Limitations.		
Unit:5	INDEX NUMBERS AND INFLATION	12 hours
Inflation – Meaning and types – Effects of Inflation – Measures to Control Inflation – Inflationary Gap – Deflation – Meaning, Causes, Types, Effects – Deflationary Gap. Index Numbers: Type – Construction of Simple, Weighted, Chain-Base Index Numbers-Difficulties-Limitation- Index Numbers and Inflation.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	Dutt and Sundaram: Indian Economy, S Chand and Company, Delhi	
2	Agarwal: Indian Economy, Vikas Publishing Company, Delhi	
Book(s)for Reference		
1	Indian Economy: AN Agrawal. New Age International Economics : Mc Graw-Hill	
2	Indian Economy: Misra and Puri Himalaya Publication House	
3	Economic Survey, Different volumes	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://www.economicdiscussion.net/national-income/4-main-concepts-of-national-income/17241	
2	http://gstcouncil.gov.in/	
3	https://www.yourarticlelibrary.com/business/money-market/money-market-objectives-functions-and-limitations/75923	
4	https://www.yourarticlelibrary.com/business/capital-market/capital-market-objectives-importance-and-functions/75914	
Course Designed By: Dr. R. Manikandan email.ID <u>maninoble@gmail.com</u>		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	L	L	S	L	L
CO2	S	L	L	S	L	L	L	L	L	L
CO3	S	L	L	S	L	M	S	M	L	L
CO4	S	L	L	M	L	L	S	M	L	L
CO5	S	L	L	M	S	L	S	L	L	L

*S-Strong; M-Medium; L-Low



Course code	23ECOB43A	ECONOMICS OF DEVELOPMENT	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the growth theory of economic development		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. To familiarize economic theories and growth models. 2. To provide a strong knowledge base on India's economy both during pre and post reform periods. 3. To develop a critical study on recent development in the Indian Economy in the context of the world economic scenario. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the theories of economic growth and development.					K1
2	Understand how growth and development of an economy is measured.					K2
3	Describe the various models of economic growth.					K3
4	Realize the factors determining economic development of a country.					K4
5	Apply theoretical knowledge in stimulated and real-life settings.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	HISTORICAL PERSPECTIVE OF ECONOMIC GROWTH				12 hours	
Economic Growth and Economic Development- Early Growth Theories: Mercantilism, Physiocratic Growth Theory - Adam Smith's Theory of Economic Growth – Marxian Theory of Economic Growth.						
Unit:2	MEASURES OF ECONOMIC DEVELOPMENT				12 hours	
Economic growth- Measurement of Development: HDI and Physical Quality of life Indies (PQLI) – Factors Determining Economic Development – Obstacles of Economic Development- vicious circle of Poverty.						
Unit:3	GROWTH THEORIES- I				12 hours	
Doctrine of balanced growth-Concept of unbalanced growth-Dualistic theories-Technological Dualism-Harrod-Domar model.						
Unit:4	GROWTH THEORIES- II				12 hours	
Joan Rabinson's model of capital accumulation-Meade's neoclassical model-Solow's Model.						
Unit:5	TECHNOLOGICAL THEORIES				12 hours	
Kaldor's model- Mahalanobis Model - Lewis Model: Two sector economy- Cobb Douglas Production Function.						

Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		62 hours
Book(s)for study		
1	Debraj Ray “Development Economics,” Oxford University Press. (2007)	
2	M.L.Taneja and R.M. Myer “Economics of Development and Planning” Vishal Publishing.co (2004)	
3	The Economics of Development and Planning – M.L.Jhingan, Vrinda Publications (P) Ltd. (1997)	
Book(s) for Reference		
1	S.K. Misra and V.K.Puri Economics of Development and Planning Theory and Practices”. Eleventh edition 2005.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://www.himpub.com/documents/Chapter1170.pdf .	
2	https://epgp.inflibnet.ac.in/	
Course Designed By: Dr. A. Sangamithra email.ID: sangamithra@buc.edu.in		

Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1	S	L	L	M	L	L	S	M	L	L	
CO2	S	L	L	M	M	L	M	L	L	L	
CO3	S	L	M	L	S	L	S	L	L	L	
CO4	S	L	S	M	S	L	S	L	L	L	
CO5	S	L	L	M	L	L	L	L	S	L	

*S-Strong; M-Medium; L-Low

Course code	23ECOB43B	INTERNATIONAL TRADE AND FINANCE	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the International trade, balance of payments and International financial institutions		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> To familiarize economic theories and growth models. To provide a strong knowledge base on India's economy both during pre and post reform periods. To develop a critical study on recent development in the Indian Economy in the context of the world economic scenario. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the principle of comparative advantage and its formal expression and interpretation within different theoretical models.					K1
2	Apply general equilibrium models in analyzing the economic instruments such as tariffs, quotas, export subsidies, free trade areas, customs unions and common markets.					K2
3	Familiar with, trade policy measures implications of trade policy.					K3
4	Familiar with the major recent developments in the world trading system, and be able to critically analyse key issues raised both by the current round of WTO negotiations and by the spread of regional trading arrangements.					K4
5	Understand the trade relations of various countries, import-export procedures and currency exchange rate procedures.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	THEORIES OF INTERNATIONAL TRADE					12 hours
Introduction – Classical and Neo Classical theory of International Trade - Modern Theory of International Trade: Heckscher - Ohlin Theorem - International Trade and Factor Prices - Leon tiff Paradox - Kravis and Linder theory of trade, The Rybczynski theorem - Terms of Trade - Factors Affecting Terms of Trade - Gains from Trade. Trade under imperfectly competitive market.						
Unit:2	THEORIES OF FOREIGN EXCHANGE RATE					12 hours
Mint par Parity Theory, Purchasing Power Parity Theory - Balance of Payments Theory. Foreign Exchange Rate Policy: Fixed Exchange Rate Flexible Exchange Rate - Foreign Exchange Markets: Spot and Forward Exchange Market. Foreign trade multiplier with and without foreign repercussions and determination of national income and output						
Unit:3	THEORIES OF BALANCE OF PAYMENT					12 hours

Meaning, Balance of Payments - Balance of Trade - Disequilibrium in BOP - Methods of Correcting Disequilibrium - Free Trade vs Protection - Methods of Protection (Tariffs and Quotas), Tariffs: Classification - Impact - Non-tariff Barriers - Quotas: Types and Impact.		
Unit:4	TRADE POLICIES AND PROCEDURES AND DOCUMENTS	12 hours
Foreign Trade Control and EXIM Policy - Export Promotion: Incentives - Production assistance - Marketing Assistance - Export and Trading Houses - Letter of Credit - Export Procedures and Documents - Bill of Lading – Export Risk Insurance.		
Unit:5	INTERNATIONAL FINANCIAL INSTITUTION	12 hours
Foreign Direct Investments - Foreign Institutional Investments. Theory of short-term capital movements (FDI and FII) and East-Asian Crisis and lessons for developing countries; International trade and financial institutions – Role of GATT/WTO (TRIPS, TRIMS), UNCTAD, IMF, World Bank and Asian Development Bank – Their achievements and failures; WTO North-South Dialogue - WTO - UNCTAD - Multinational Corporations		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
	Total Lecture hours	62 hours
Book(s) for study		
1	Krugman. P.R, and Obstfeld International Economics Addison Wesley Pub, USA	
2	Carbaugh.R.J International Economics, South-Western Pub, USA	
3	Barbara Ingham International Economics, Prentice Hall, England	
4	Cherunilam.F International Economics, The McGraw-Hill, New Delhi	
5	Dominick Salvatore International Economics, Wiley.	
6	Dominick Salvatore, International Economics, The McGraw-Hill, New Delhi	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
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Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	S	L	L	L	S	M	L	L
CO2	S	L	S	L	S	M	S	L	L	L
CO3	S	L	M	S	L	S	L	L	L	L
CO4	S	L	L	M	L	L	S	L	L	L
CO5	S	L	L	S	L	L	S	M	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOB43C	MONETARY THEORY AND POLICIES	L	T	P	C
Core			5	-	-	4
Pre-requisite	Knowledge about the theory of money, supply of money, monetary policy, banking system and Indian financial markets	Syllabus Version	2023-24			
Course Objectives:						
The main objectives of this course are to:						
1. Train students on different concepts of monetary theory.						
2. Familiarize the monetary policy of Indian Economy.						
3. Develop a critical study on the money and capital markets						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the important of financial sector in India					K1
2	Apply various theory of money supply in Monetary Policy					K2
3	Understand the functions of Indian money market, capital markets and SEBI.					K3
4	Analyse the monetary theories and monetary policies and it's operations of money and capital market in India.					K4
5	Evaluate the monetary policy in Indian Economy					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	MONETARY THEORIES				12 hours	
Concepts - The Role of Money in an Economy - Fisher's Quantity Theory - Cambridge Cash Balance Approach - Keynesian Theory - Modern Quantity Theory: Friedman's Approach - Don patinkin's Integration Theory - Tobin's Portfolio Analysis - Inventory Theory of Money (Baumol).						
Unit:2	THEORY OF MONEY SUPPLY				12 hours	
High Power Money - Money Multiplier Process-Determinants of Money Multiplier - Factors Affecting H-Reserve Bank Analysis of Money Supply - Credit Creation by Commercial Banks - Banks Balance Sheet - NBFI.						
Unit:3	CENTRAL BANKING SYSTEM				12 hours	
Role and Development and Promotional Functions of RBI - Credit Control Methods – Statutory liquidity Ratio (SLR), Cash Reserve Ratio (CRR), Repo rate, Reverse Repo rate - Central Banks in UK and USA.						
Unit:4	MONETARY POLICY				12 hours	

Role of Monetary Policy in Economic Development - Goals, Targets and Indicators of Monetary Policy - Lags in Monetary Policy - Inflation - Chakravorthy and Narasimhan Committee Reports.		
Unit:5	MONEY AND CAPITAL MARKETS	12 hours
Characteristics of Developed and Undeveloped Money Market - The Indian Money Market, Instruments of Money Market - Capital Market: Recent trends in Indian Capital Market - Primary and Secondary Market - Stock Exchanges: Role and Their Functions - SEBI.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
	Total Lecture hours	62 hours
Book(s) for study		
1	Chandler, L.V.: Economics of Money and Banking (UBS) Revised Edition.	
2	Suraj B. Gupta: Monetary Economics, Institutions, Theory and Policy, S.Chand Publications, New Delhi	
Book (s) for Reference		
1	Laidler, David: The Demand for Money (Allied Publishers).	
2	Harry G.Johnson: Further Essays in Monetary Economics(Allen & Unwin).	
3	Milton Friedman: Studies in the Quantity Theory of Money.	
4	Gail E.Makinen: Money, Interest and the Price Level, (Prentice Hall, 1978).	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
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Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	S	L	L	S	L	L	L
CO2	S	L	L	S	L	S	L	L	L	L
CO3	S	L	L	M	M	S	L	L	L	L
CO4	S	L	L	M	M	S	L	L	L	L
CO5	S	L	L	S	S	M	L	L	L	L

*S-Strong; M-Medium; L-Low



***Supportive
Courses***

Course code	23ECOGS..	BASIC ECONOMICS	L	T	P	C
Supportive			2	-	-	2
Pre-requisite	Knowledge about the fundamental concepts of economics		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Students who complete this course will be able to illustrate how consumers and sellers are behave in the market through use of the demand and supply theory, consumption, production and market structure. 2. Students who complete this course will be able to comprehend the important role of pricing methods to economic decision making. 3. Students who complete this course will be able to understand what is meant by market success and market failure. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Know the basic ideas of micro economics to the non economic students					K1
2	Understand the basic knowledge about the consumption, demand and supply					K2
3	Know about the factors of production and their features					K3
4	Understand various market condition and their pricing.					K4
5	Understand Principles of micro economics					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	INTRODUCTION					6 hours
Meaning - Definition - Subject Matter of Economics - Relation of Economics with Other Social Sciences - Micro and Macro Economics.						
Unit:2	CONSUMPTION					6 hours
Wants - Utility - Law of Diminishing Marginal Utility - Equi - Marginal Utility - Indifference Curve - Consumers Surplus.						
Unit:3	DEMAND AND SUPPLY					6 hours
Law of Demand - Demand Schedule - Determinants of Demand - Elasticity of Demand - Law of Supply - Supply Schedule.						
Unit:4	PRODUCTION					6 hours
Factors of Production and Their Features Law of Diminishing Marginal Return - Malthusian Theory of Population - Economies of Scale – Organisation of Enterprise - Cost Concepts.						

Unit:5	MARKET STRUCTURE	6 hours
Features of Perfect Competition, Monopoly, Monopolistic Competition and Oligopoly - Price Determination Under Perfect Competition.		
Unit:6	Contemporary Issues	2 hours
Expert Lectures, Online Seminars – Webinars		
	Total Lecture hours	32 hours
Book(s) for study		
1	N. Gregory Mankiw Principles of Economics Publisher Harvard University.	
2	H.L. Ahuja Business Economics Publisher in S. Chand sons.	
3	Thomas Sowell Basic Economics publisher, basic books	
4	Joshua Gans, Stephen King, Martin by Ford, N. Gregory Mankiw Principles of Micro Economics, publisher Asia Pacific Edition.	
Book (s) for Reference		
1	AL Fred Marshall Principles of Economics, publisher in Palgrave	
2	Baye, M.R. (2011) Micro Economics and business strategy, New York, publisher McGraw – Hill, Irwin	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. P. Shanmugam mail id: bushanmugam@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	L	M	L	L	M
CO2	S	L	L	L	L	L	M	L	L	L
CO3	S	L	L	L	L	L	M	L	L	L
CO4	S	L	L	M	L	L	M	L	L	M
CO5	S	L	L	L	L	L	L	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOGS..	AGRICULTURAL ECONOMY OF INDIA	L	T	P	C
Supportive			2	-	-	2
Pre-requisite	Knowledge about the land reforms, importance of agriculture and price structure policy		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> To familiarize the agricultural situation in India To provide sound knowledge base on India's Agricultural economy before green revolution and after it. To develop a critical study on recent Agricultural crises in India. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the importance of agricultural sector in Indian economy.					K1
2	Discuss the agricultural development in India and to identify the achievements of Indian agricultural sector.					K2
3	Explain green revolution and to identify the agricultural price policy in India.					K3
4	Describe the sources of agriculture credit which support to farmers.					K4
5	Discuss the functions of marketing and to indicate the different agricultural marketing structure in India.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	AGRICULTURE AND ECONOMIC DEVELOPMENT – INTRODUCTION				6 hours	
Importance of Agriculture in the Indian Economy - Problems of Indian Agriculture - Relationship between Agriculture and Non-Agriculture sectors.						
Unit:2	ISSUES IN INDIA'S LAND REFORMS				6 hours	
Achievements of Indian Agriculture - Agriculture Development in India - Subdivision and Fragmentation of holdings in India and causes - Land Tenure and Land Reforms.						
Unit:3	GREEN REVOLUTION AND PRICE MECHANISM IN INDIA				6 hours	
Productivity in Agriculture - New Agriculture Strategy - Irrigation - Green Revolution – Origin – Merits - Demerits - Nature of Food Economy - Agriculture price policy in India - Public Distribution system.						
Unit:4	AGRICULTURAL CREDIT				6 hours	
Rural Indebtedness - Causes of Rural Indebtedness and its Remedial measures - Sources of Agricultural Finance – Institutional and Non – Institutional.						

Unit:5	AGRICULTURAL MARKET	6 hours
Market and Marketed Surplus – Marketing Cost – Types, Defects in marketing Agricultural produce - Farmers Market.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		32 hours
Book(s) for study		
1	S.Subbareddy,p.raghu ram,t.v.neelakanta sastry,i.bhavani devi. “agricultural economics “cbs publisher new delhi.	
2	R.G.desai “agricultural economics “Himalaya publishing house (p) ltd	
3	Sadhu &Singh “fundamentals of agricultural economics” Himalaya publishing house.	
Book(s) for Reference		
1	Misra and Puri,	Indian Economy, Himalaya Publishing House Bombay.
2	Ruddar Dutt and K P M Sundaram	Indian Economy, S.Chamnd & Co.Ltd, New Delhi.
3	Bansil.B.C.	Agricultural Problems of India, Vikas Publishing House. Pvt. Ltd., New Delhi.
4	Sankaran.A.	Agricultural Economy of India, Progressive Corporation. Pvt. Ltd., Bombay.
5	Srivastava.O.S.	Agricultural Economics, Rawat Publications, Jaipur, 1996.
6	R. K. Lekhi Joginder Singh	Agricultural Economy of India, Kalyani Publications, New Delhi.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	For more details > go to this link > https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11 > select Subject and Module	
Course Designed By: Dr. R. Govindasamy mail id: govindhphd@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	M	L	M	L	M	L	L
CO2	S	L	L	L	L	L	L	L	L	L
CO3	S	L	L	M	L	M	L	L	L	L
CO4	S	L	L	M	L	M	L	L	L	L
CO5	S	L	L	M	L	M	L	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOGS..	ELEMENTS OF PUBLIC ECONOMICS	L	T	P	C
Supportive			2	-	-	2
Pre-requisite		Knowledge about the taxation, budget policy and fiscal policy	Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. To understand the role of government under different economic systems. 2. To equip students on issues related to taxation and public expenditure 3. To gain knowledge on budget and fiscal policy. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Know the concepts of public goods, social goods, public expenditure, budget and Taxation.					K1
2	Understand the role of government for economic development.					K2
3	Realize the importance of fiscal policy in India.					K3
4	Recognize the drivers of change in the government polices.					K4
5	Know the budgetary policy of India					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	PUBLIC GOODS AND MARKET FAILURE					6 hours
Role of government in managing the economy under different economic systems - Social Welfare Function . Theory of Public goods. Problems in Allocation of Resources.						
Unit:2	PUBLIC EXPENDITURE					6 hours
Structure and Growth of Public Expenditure - Criteria for Public Investment –Theories of Public Expenditure - Expenditure Programmes for the poor.						
Unit:3	TAXATION					6 hours
Theories of Taxation - Benefit and ability-to-pay approaches - Indian Direct and Indirect Taxes - Tax reforms since 1975 - Evaluation of Tax Reforms -Taxation Incidence and alternative concepts of Incidence.						
Unit:4	BUDGET POLICY OF INDIA					6 hours
Budget - Deficit Budgeting - Types of Deficits - Performance of Public Sectors - Enterprises - Administered Pricing - Public Debt.						

Unit:5	FISCAL POLICY	6 hours
Fiscal Policy - Role of Fiscal Policy in India - Principles of Fiscal federalism in India - Local Finance.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		32 hours
Book(s) for study		
1	Dr. B.P. Tyagi “Public Finance,” Jai Prakash Natu& (O). (2016)	
2	R. A. Musgrave and P. B. Musgrave (1989): Public Finance in Theory and Practices. McGraw Hill.	
3	R.C. Agarwal “Public Finance Theory & Practises,” Lakshmi Narain Agarwal, 2002.	
Book (s) for Reference		
1	S.N. Chand “Public Finance”, Volume 1 (2008). Atlantic Publishers & Dist.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://books.google.co.in/books/about/Public_Finance.html?id=E6y-epRtZ38C	
2	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
3	https://epgp.inflibnet.ac.in/	
Course Designed By: Dr. A. Sangamithra mail id: sangamithra@buc.edu.in		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	S	L	L	L	S	L	L
CO2	S	L	L	M	L	L	M	L	L	L
CO3	S	L	L	M	L	L	M	L	L	L
CO4	S	L	L	S	L	L	L	L	L	L
CO5	S	L	L	M	L	L	M	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOGS..	INTRODUCTION TO INDIAN ECONOMY	L	T	P	C
Supportive			2	-	-	2
Pre-requisite	Knowledge about the Indian macroeconomic issues like poverty, agriculture, National Income, etc.		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
1. Understand the developmental aspect of Indian Economy and the problems facing by India.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Know the concepts of economic development					K1
2	Understand the various aspects of India's economy					K2
3	Develop a perspective on the different problems and approaches to economic planning and development in India					K3
4	Help in developing an in-depth understanding of the Indian economy- its history, recent developments, and impending challenges.					K4
5	Become proficient in understanding and analyzing macroeconomic developments and policy. They will also become familiar with the current dominant thoughts and tools used for economic policy making and research.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	NATIONAL INCOME					6 hours
Methods of Measuring National Income (Income, output and expenditure method)-India as a Developing Economy – Basic Characteristics of Indian Economy -Concepts of National Income: GNP, NNP, PI, NI, DPI-National Income Estimates in India.						
Unit:2	NATURAL RESOURCES					6 hours
Natural Resources In The Process of Economic Development: Land-Forest-Water-Fisheries, Mineral Resources In India.						
Unit:3	POVERTY ANALYSIS					6 hours
Income Distribution and Inequalities in India- The Concept of Poverty – Causes of Poverty Failure to Eradicate Poverty – Poverty Eradication Programmes. Budget: Meaning- Revenue and Capital Budget.						
Unit:4	INDIAN AGRICULTURE					6 hours
The place of Agriculture in the National Economy (ePathsala)- Green Revolution- Food Security-Sickness of Industries- Prevention of Industrial Sickness and State Policy- Functions of RBI.						

Unit:5	FOREIGN TRADE	6 hours
The Foreign Trade of India – Importance of Foreign Trade for Developing Economy – India’s Balance of Payment Crisis – Special Economic Zone (SEZ)- Impact of WTO on Various Aspects of Indian Economy.		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		32 hours
Book(s) for study		
1	Dutt.R. and K.P.M.Sundaram. 2019. Indian Economy, S.Chand and Co, New Delhi.	
2	Agarwal.A.N. 2016. Indian Economy, Wiley Eastern Ltd, New Delhi.	
Book (s) for Reference		
1	Srinivas Y.Thakur.2015. Indian Economic Development, Sterling Publishers, New Delhi.	
2	Government of India, Economic Survey, (various years).	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. P. Shanmugam mail id: bushanmugam@gmail.com		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	M	M	L	L	L
CO2	S	L	M	M	L	L	L	L	L	L
CO3	S	L	L	M	L	M	L	L	L	L
CO4	S	L	M	L	L	M	L	L	L	L
CO5	S	L	M	M	L	M	M	L	L	L

*S-Strong; M-Medium; L-Low

Course code	23ECOGS...	AN INTRODUCTION TO ENVIRONMENTAL ECONOMICS	L	T	P	C
Supportive			2	-	-	2
Pre-requisite	Knowledge about the welfare economics and environmental problems in India.		Syllabus Version		2023-24	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. To apply economic theories in to the environmental problems to solve the social issues. 2. To understand the importance of economic motives in all aspects of human life and will be familiar with constructing economic arguments 3. To explain environmental degradation in economic terms 4. To learn the tools to evaluate the policy interventions aimed to environmental conservation in terms of their costs and benefits, and 5. To critically comment on current environmental policy issues. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the subject of environmental economics, including its key principles and theories.					K1
2	Use Economic techniques to analyse environmental problems and to create environmental policies					K2
3	Learn the procedures of allocation goods and resources, optimal usage and market failure in public goods provision					K3
4	Apply the theoretical and practical knowledge of principles and practices in natural resource management, sustainability, globalization and environmental management to professional practice or further study;					K4
5	Analyse, synthesis and reflect the social implications of environmental concerns and challenges both in India and global.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	CONCEPT					6 hours
Nexus between environment and economics – the principle of material balance – Market failure - private versus social cost – Trade-off between economic growth and environment - sustainable development - Environmental Quality as a Public Good.						
Unit:2	ENVIRONMENTAL ECONOMIC THEORY FOR RESOURCE ALLOCATION					6 hours
Economic theory for resource allocation: Theory of externalities - Benefit/Cost Analysis – Limits to Growth – Coase's theorem- Simon Kuznet's Inverted 'U' shaped curve – Hedonic Theory.						
Unit:3	ENVIRONMENTAL PROBLEM IN INDIA					6 hours
Sources and types of pollution (air, water, solid waste, noise, land degradation); Causes and effects of environmental degradation, Urbanisation and its Impact on Environment and Rural environmental problems - Energy-environment interaction.						

Unit:4	ENVIRONMENT-SOCIETY INTERFACE AND POLICY	6 hours
Population and Environment – women and environment – Environmental acts in India – International initiative on environmental protection.		
Unit:5	ENVIRONMENTAL POLICY	6 hours
India’s Environmental policy and International Environmental policy		
Unit:6	Contemporary Issues	2 hours
Expert lectures, online seminars – webinars		
Total Lecture hours		32 hours
Book(s) for study		
1	Charles D. Kolstad (2000): “Environmental Economics”, Oxford University Press, New York.	
2	U. Shankar (2000) ‘Environmental Economics, Oxford University Press, New Delhi	
3	Eugine T. (2005): “Environmental Economics”, Vrinda Publications, Pvt. Ltd, New Delhi.	
4	M. Karpagam (2000) ‘Environmental Economics’ Sterling Publisher Pvt.Lyd. New Delhi	
Book (s) for Reference		
1	Kanchan Chopra, Gopal K. Kadekodi (2001), Operationalising Sustainable Development, Sage Publication, New Delhi	
2	Edited by Rabindra N. Bhattacharya (2001), Environmental Economics, Oxford University Press, New Delhi	
3	M. Ravichandran and S. Boopathi (2007), Environmental Management: Issues potable water in Rural Tamil Nadu <i>Concept Publications</i> , New Delhi	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11	
Course Designed By: Dr. S. Boopathi mail id: somuboopathi@buc.edu.in		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	L	L	L	L	L	M	L	L	L
CO2	S	L	M	L	M	L	L	M	L	L
CO3	S	L	L	L	L	L	M	L	L	L
CO4	S	L	M	L	M	L	L	L	L	L
CO5	S	L	M	L	L	L	L	M	L	L

*S-Strong; M-Medium; L-Low



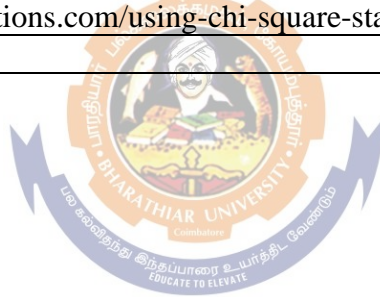
Value added course - 1

Course code	GLOBAL BUSINESS FOUNDATION SKILLS			L	T	P	C
				2	-	2	4
Unit: 1	Overview of communication						
Overview of communication –English: Spoken Vs Written communication: Introduction to voice and accent – Phonetic rules – Fluency – Business communication – written – Reading Comprehension: Attention to details – Reading skills – Dealing with different kinds of customers.							
Unit: 2	Corporate Etiquettes						
Corporate culture – Corporate etiquette – importance of corporate etiquette in India UK and US Dressing and grooming skills – Workplace etiquette – Business etiquette – Email etiquette – Telephone and meeting etiquette – Presentation skills – Professional competencies: analytical thinking – listening skills – time management – team skills – stress management.							
Unit: 3	PC and Data Skills						
PC and data skills – MS word – introduction – functions – formatting – graphics – spell check – printing. Data skills – MS excel – introduction – formatting data - formulas in excel Introduction to power point – editing and formatting – presentation – animation.							
Unit: 4	Analytical and Logical Reasoning						
Aptitude Appetizer – Analytical and logical reasoning – Quantitative Vs. verbal aptitude – practice – shortcut routes.							
Unit: 5	Employability readiness						
Resume preparation – Facing Group discussion- Face to Face interview.							
Book(s) for study							
1	Vimala, A., (2016). Career Preparation and Talent Management, Oviya Publication, Coimbatore						
2	Urmilarai and S.M.Rai. (2011) –Communication skills Himalaya Publishing House.						
Book (s) for Reference							
1	Rajendra pal & J.S. Korlahalli,(2011) - Essentials of Business Communication S. Chand & sons.						
2	Ramesh, MS. & C.C Pattanshetti (2003) – Business Communication R. Chand & Co, New Delhi.						

Value Added Course - 2

Advanced Hands on training in Statistical Software		
Name of the Department	Department of Economics	
Name of the Faculty Member i/c With Complete Address with Phone and e-mail	Dr. S. Boopathi Professor and Head Department of Economics Bharathiar University, Coimbatore- 641046. Phone:9842098696 E-Mail:somuboopathi @gmail.com	
Inter / Intra Department Course	Intra Department Course	
Duration of the Course	6 Months	
Eligibility	M.A. Economics	
Number of Candidates to be Admitted	25	
Registration Procedure	Regular/Online	
Job Opportunities:		
Data Analysis for Preparation of Thesis		
The objectives of the Course are:		
The main objectives of this course are to:		
1	Practice the statistical techniques in software	
2	Understand the basic concept and usage of software	
3	Develop the ability in usage of software for different statistical techniques.	
Course Content	Lecture / Practical / Project / Internship	
Module 1	Measures of central tendency: mean median mode- Dispersion: standard deviation and co-efficient of variation Correlation : Parametric Statistics:, Pearson's Linear Correlation, Pearson's Partial correlation, Multiple Correlation. Non-parametric statistics: Spearman's Rank Order Correlation, Biserial correlation, Point-Biserial Correlation, Tetra-choric correlation, Phi-correlation.	Practical
Module 2	Difference between Two-groups: Parametric Statistics: Independent Sample t-test, Paired Sample t-test – one sample t-test. Non-Parametric Statistics: Sign test, Wilcoxon test, Mann-Whitney U test	Practical
Module 3	Difference among Two or More groups: Parametric Statistics: ANOVA, ANCOVA. Non-Parametric statistics: Kruskal Wallis H-test, Fried Mann's test, chi-square test, Median Test	Practical
Module 4	Advanced Analysis: Multivariate analysis: MANOVA,. Data Reduction Analysis: Principal Component Analysis, Factor Analysis - Reliability Analysis: Cronbach's alpha,	Practical
Module 5	Prediction Analysis:Linear regression, Multiple regression, Hierarchical multiple regression, Logistic regression, Ordinal regression. Classroom management strategies that support active learning in a blended classroom.	Practical
Book(s) for Study		

1	Knapp, H. (2017). Introductory Statistics Using software (2nd ed.). Sage Publications.
2	McCormick, K., & Salcedo, J. (n.d.). (2017).software Statistics for Data Analysis and Visualization.Wiley Publication.
3	Fox, James; Levin, Jack (1994) Elementary statistics in behavioral research New York.
Book(s) for reference	
1	Edward T Vieira,, Jr. (2017). Introduction to Real World Statistics: With Step-By-Step software Instruction. Routledge Publication.
2	Norusis, Marija (2009) software 17.0 Advanced statistical procedures companion. Upper Saddle River, NJ: Prentice Hall.
3	Norusis, Marija (2009) software 17.0 Guide to data analysis, Upper Saddle River, NJ: Prentice Hall.
4	Weisberg, Sanford (2005) Applied linear regression, Third edition, New York.
Related Online Contents	
1	www.discoveringstatistics.com/docs/reliability.pdf
2	http://www.statsoft.com/Textbook/ANOVA-MANOVA
3	www.iasri.res.in/iasriwebsite/DESIGNOFEXPAPPLICATION/Electronic-Book/Module%201/6SPSS-overview.pdf
4	https://www.educba.com/cluster-analysis-vs-factor-analysis/
5	https://www.statisticssolutions.com/using-chi-square-statistic-in-research/





***Certificate
Courses***

Course Code	TITLE OF THE COURSE	L	T	P	C
Certificate Course	Statistical application Research in Economics with R			30	2
Pre-requisite	Knowledge in object oriented language	Syllabus Version		2023-24	
Course Objectives					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Understand the operations and functions of R Programming 2. Perform statistical analysis using built-in functions 3. Learn and write customized program for mathematical and statistical problems 					
Expected Course Outcomes (COs):					
On the successful completion of the course, student will be able to:					
1	Understand the basics of R Language				K2
2	Apply the logical skills for performing statistical analysis				K4
3	Use appropriate plots, charts and diagrams for all kinds of data				K3
4	Perform parametric methods				K3
5	Write and execute the code for multivariate analysis				K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create					
Unit: 1	Essentials of R Language			12hours	
Expressions and objects, Assignments, creating vectors, Vectors, vector arithmetic, logical vectors, Index vectors, objects, their modes and attributes, ordered and unordered factors.					
Unit: 2	Data Entry and Data Edit			12hours	
Arrows and matrices, List and data frames, List and data frames, conditional statements -functions- built-in and user defined; Data entry-reading from text file, data editor; examples.					
Unit: 3	Basic Statistics and Graphical methods			12hours	
Descriptive Statistics and Graphics: Obtaining summary statistics; generating tables; Bar plots, Pie charts, Box plots, Histogram; exercises.					
Unit: 4	Probability distributions and Statistical Inference			12hours	
Probability and Distributions: obtaining density, cumulative density and quantile values for discrete and continuous distributions; generating samples from discrete and continuous distributions; Plotting density and cumulative density curves, parametric and non-parametric methods					
Unit: 5	Model building and Multivariate Analysis			12hours	
Correlation: Pearson, Spearman and Kendall's correlation; Regression-fitting, obtaining residuals and fitted values; one and two sample tests for mean and variance – one way and two way ANOVA, Multivariate analysis					
Unit: 6	Contemporary Issues			2hours	
Expert lectures, online seminars – webinars					
Total Lecture Hours				62hours	

Books for Study	
1	Purohit,S.G., Gore,S.D., and Deshmukh, S. R.(2009). Statistics Using R, Narosa Publishing House, New Delhi.
2	Dalgaard, P. (2008). Introductory Statistics with R, Second Edition, Springer
3	Crawley, M, J. (2007). The R Book, John Wiley and Sons Private Ltd., NY.
Reference Books	
1	DeVries, A., and Meys, J. (2016). R F or Dummies, Second Edition, John Wiley & Sons Private Ltd, NY.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://swayam.gov.in/nd1_noc19_ma33/preview
2	https://swayam.gov.in/nd2_aic20_sp35/preview
3	https://nptel.ac.in/courses/111/104/111104100/

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	L	S	S	S	S	M	M	M
CO2	S	S	L	S	S	S	M	M	M	M
CO3	S	S	L	S	S	S	M	M	M	M
CO4	S	S	L	S	S	S	M	M	M	M
CO5	S	S	L	S	S	S	S	M	M	M

*S - Strong; M - Medium; L - Low



Course Code	TITLE OF THE COURSE		L	T	P	C
Certificate Course	BUSINESS MANAGEMENT WITH TALLY				30	2
Pre-requisite	Learning of Tally for Employability		Syllabus Version		2023-24	
Course Objectives						
The main objectives of this course are to:						
1. To understand the nature of a business organization						
2. To learn data maintenance for a business organization						
Expected Course Outcomes (COs):						
On the successful completion of the course, student will be able to:						
1	Understand accounting and inventory Management				K ₁ , K ₂ , K ₄	
2	Able to maintain Company data like Flexible purchase and Sales Management				K ₁ ,K ₂ , K ₃ ,K ₄	
3	Develop skill in Inventory management				K ₁ ,K ₂ , K ₃ ,K ₄	
4	Learn to create Banking Transactions and E- payment				K ₁ ,K ₂ , K ₃ ,K ₄	
5	Acquire knowledge about Accounting and Inventory Reports in Tally ERP				K ₁ ,K ₂ , K ₃ ,K ₄	
K1 - Knowledge ; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit: 1	Simple Accounting Management				12hours	
Pre-Defined accounting groups and flexible chart of accounting – Groups and Ledgers management – Multi Currency support – Post dated transactions						
Unit: 2	Flexible purchase and Sales Management				12hours	
GST complaint invoice – Multiple billing formats – Multiple price list and discount management – multiple mailing address – sales and purchase order processing						
Unit: 3	Inventory Management				12hours	
Physical stock Verification - Manufacture and expiry date management – Flexible unit of measurement – Job costing –Reorder level - Multiple stock valuations						
Unit: 4	Banking and Job work				12hours	
Auto Configuration - Cheque book management – Auto Bank reconciliation – Post dated cheque management – E payment – Job Order and Work Processing						
Unit: 5	Accounting and Financial Reports				12hours	
Ledger reports – Cash/Bank Report – Bill receivable and payment – balance sheet – profit and loss A/C – Stock Summery – Stock Transfers – Order Summery						
Total Lecture Hours					62hours	

Books for Study	
1	Tally.ERP 9 with GST in Simple Steps Paperback, (2020), DT Editorial Services, India
2	Dr. Namrata Agrawal, Comdex Tally.ERP 9 Course Kit (2019), Dream Tech Press , India
Reference Books	
1	Asok .K.Nadhani (2018), Tall. ERP 9 Training Guide, BPB Publications, India
2	Vikas Gupta (2018), Comdex Tally.ERP 9 Course Kit with GST and MS Excel, Dream Tech press, India
3	Shraddha Singh, Tally ERP 9, V and S Publishers
Related Online Contents [Web Resources etc.]	
1	https://tallysolutions.com/learning-hub/
2	https://www.rivereastlibrary.org/Pages/Index/183493/tech-time-online-resources-with-tally
3	https://www.tallysoft.com/wp-content/uploads/2017/07/TallyExplorer-Manual_v5.1.0.0.pdf

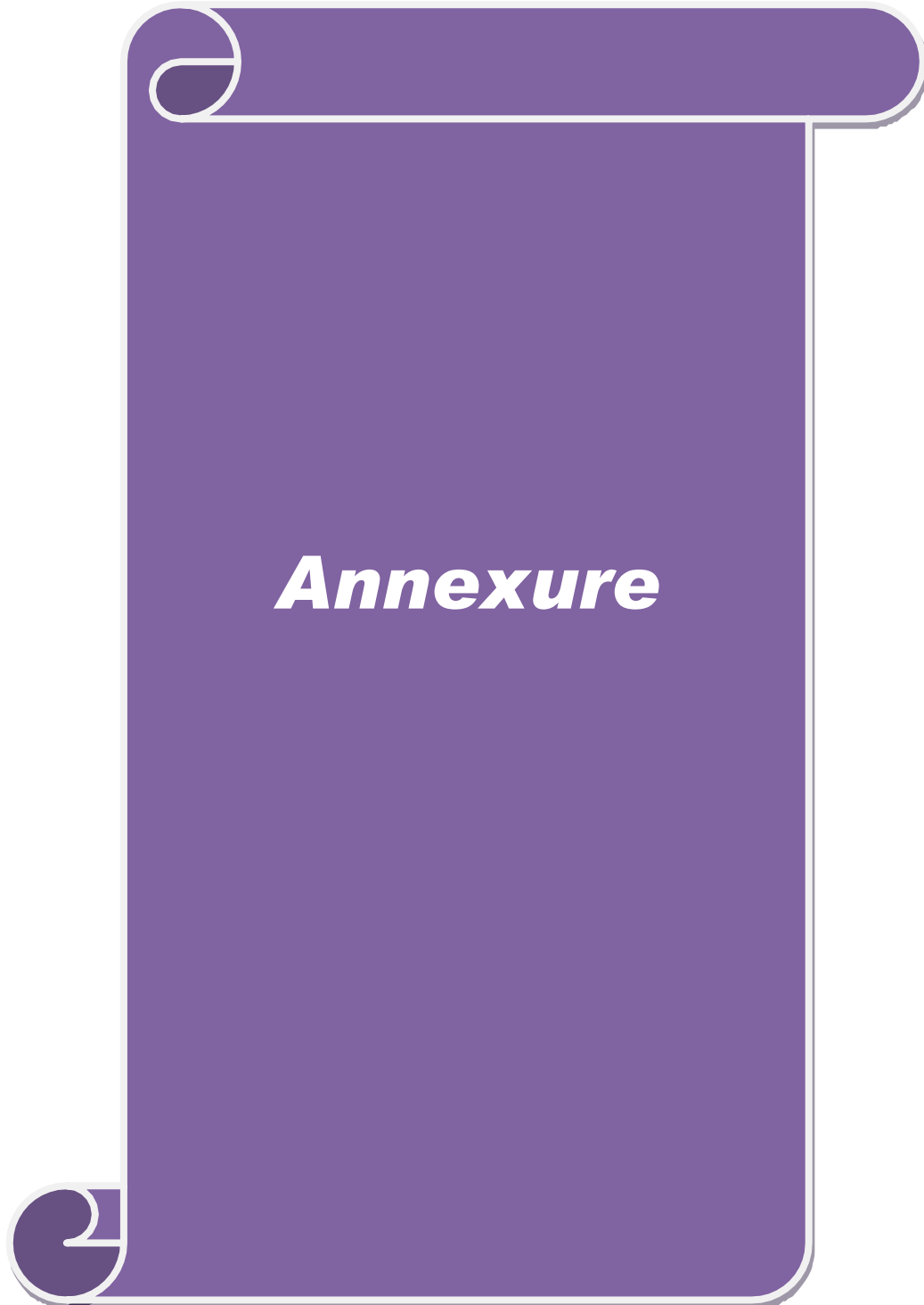
CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to Pos	3	3	3	3	3

CO-PO Mapping (Course Articulation Matrix)

* 1 – Low; 2 – Medium; 3 – High; 0 - No Correlation

Level of Correlation between PSO's and CO's

(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)



M. A. ECONOMICS

Syllabus
(With effect from 2023-2024)

Program Code: ECOB



DEPARTMENT OF ECONOMICS
Bharathiar University
(A State University, Accredited with “A” Grade by NAAC and
13th Rank among Indian Universities by MHRD-NIRF)
Coimbatore 641 046, Tamil Nadu, INDIA

BHARATHIAR UNIVERSITY: COIMBATORE 641046
DEPARTMENT OF ECONOMICS

MISSION

To train the students for acquiring knowledge about economic models and applications to enhance their employability and entrepreneurship.

To undertake scientific way of research in economics for regional, national and global development and to create socio-economic database of India particularly in Tamil Nadu.

