



**CHOICE BASED CREDIT SYSTEM-LEARNING
OUTCOMES BASED CURRICULUM FRAMEWORK**

M.A. Economics Programme

(CBCS-LOCF)

(With effect from 2026-27)

TABLE OF CONTENTS

Sl. No.	Contents	Page No.
1.	Programme Objectives	3
2.	Programme Outcomes	3
3.	Programme Specific Outcomes	4
4.	Eligibility for Admission	4
5.	Duration of the Course	4
6.	Medium of Instruction and Examination	4
7.	Assessment Method Continuous Internal Assessment (CIA) End Semester Examination (ESE)	4 – 5
8.	Project Work	6
9.	Curriculum Design	6 – 8
10.	Extra-Credit Courses	9
11.	Syllabus & Scheme: Semester – I	10 – 26
12.	Syllabus & Scheme: Semester – II	27 – 46
13.	Syllabus & Scheme: Semester – III	47 – 66
14.	Syllabus & Scheme: Semester – IV	67 – 73
15.	Syllabus & Scheme: Extra Credit Courses	74 – 80



DEPARTMENT OF ECONOMICS

BHARATHIDASAN UNIVERSITY

TIRUCHIRAPPALLI – 620024

Curriculum Design – M.A. Economics Programme (CBCS-LOCF) **(With effect from 2026-27)**

* * * * *

1. PROGRAMME OBJECTIVES:

1. To help students to understand basic and advanced economic concepts and theories.
2. To train students to apply economic concepts and theories in solving various problems.
3. To enable students to analyse economic issues, think critically and make appropriate decisions.
4. To up-skill students in the application of statistical, mathematical and econometric tools of analysis.
5. To keep track with the latest developments in the dynamic field of economic science.

2. PROGRAMME OUTCOMES:

PO1	Attainment of theoretical and empirical knowledge of economics.
PO2	Imbibement of application of economic theories of problem solving.
PO3	Acquirement of critical thinking and decision making skills.
PO4	Development of analytical skills and mindset.
PO5	Exposure to contemporary developments in economics.

3. PROGRAMME SPECIFIC OUTCOMES:

PSO1	Understanding and application of Microeconomic and Macroeconomic theories.
PSO2	Develop an advanced theoretical understanding of consumer behaviour and decision-making.
PSO3	Understanding about the origin and development of economic ideas and their interrelations.
PSO4	Gain the ability to apply the principles of Public Economics in analyzing various government policies.
PSO5	Develop ability to probe into the issues in India's economic development.
PSO6	In-depth analysis of the sectoral contributions of agriculture, industry and service sector in India.
PSO7	Understanding the role and response of monetary and fiscal policies on economic development.
PSO8	Understanding Economics through international perspectives.
PSO9	Gain the ability to make critical analysis of various economic growth and development theories.
PSO10	Develop an insight into specialized fields of Economics, like Agricultural Economics, Industrial Economics, Labour Economics, Business Economics, etc.
PSO11	Develop ability to use mathematical and statistical methods and techniques for analyzing various economic problems.

4. ELIGIBILITY FOR ADMISSION:

A candidate who has passed any UG degree is eligible.

5. DURATION OF THE COURSE

The duration of the course is two years. Each academic year consists of two semesters of 90 working days each.

6. MEDIUM OF INSTRUCTION AND EXAMINATION:

English is the medium of instruction and examinations.

7. ASSESSMENT METHOD:

For securing a Post Graduate Degree in Economics, a student has to secure 90 credits.

THEORY PAPERS

For a pass in each theory paper, a student has to obtain a minimum of 10 marks out of 25 marks in the Continuous Internal Assessment (CIA) component and a minimum of 30 marks out of 75 marks in the End Semester Examination (ESE) component and an overall minimum of 50 marks out of 100 marks in Total.

CONTINUOUS INTERNAL ASSESSMENT (CIA)

Components	Maximum Marks
Assignment	5
Seminar	5
Test (2)	15
TOTAL	25

END SEMESTER EXAMINATION (ESE)

Part	Components	Maximum Marks
A	10 Questions X 2 Marks (Two Question from Each Units) (Answer ALL)	20
B	5 Questions X 5 Marks (2 Questions from Each Units) ((a) or (b) Type)	25
C	3 Questions X 10 Marks (One Question from Each Units) (Answer any THREE)	30
TOTAL		75

PROJECT WORK

The marks for the Project Work shall be the average marks awarded by external and internal examiners. For a pass in the Project Work, a student has to obtain a minimum of 40 marks out of 80 marks for the Project Report and a minimum of 10 marks out of 20 marks for the Viva-Voce Examination and an overall minimum of 50 marks out of 100 marks in Total.

Components	Maximum Marks
Project Report	80
Viva-Voce	20
Total	100

CURRICULUM DESIGN

M.A. Economics Programme is offered under Choice Based Credit System-Learning Outcomes Based Curriculum Framework (CBCS-LOCF) pattern and it consists of Core, Core Choice, Elective, Experimental and Non-Major Elective Courses with a total of 90 Credits. The total number of Courses is 21 and is spread over 4 Semesters. The students will have to undergo two Value Added Courses (2 extra credits each), one Online Course (2 extra credits) and two Field Projects/Internships as part of the Programme.

Sl. No	Type of the Course	No. of Courses	Total Credits
A	Core Courses	8	40
B	Core Choice Courses	3	15
C	Elective Courses	3	12
D	Experimental Courses	3	9
E	Entrepreneurship/ Industry Based Course	1	5
F	Project	1	5
G	Non-Major Elective Courses	2	4
Total		21	90

ABSTRACT OF CURRICULUM DESIGN

Core Courses	Core Choice Courses	Elective Courses
1. Microeconomics Analysis 2. Macroeconomic Analysis 3. Mathematical Methods 4. Economics of Growth and Development 5. Monetary Economics 6. Econometrics 7. Labour Economics 8. Public Economics	1. i). Statistical Methods ii) Quantitative Techniques 2. i) Economics of Infrastructure ii) Managerial Economics 3. i) International Economics ii) International Business Environment	1. i) Industrial Economics ii) Energy Economics 2. i) Agricultural Economics ii) Rural Economics 3. i) Health Economics ii) Environmental Economics
Experimental Courses	Entrepreneurship / Industry Based Course	Non-Major Elective Courses
1. Indian Economic Development 2. Tamil Nadu Economy 3. Research Methodology	1. Entrepreneurial Development	1. i) Indian Economy ii) Introduction to Econometrics 2. i) Global Economy ii) Business Economics

CURRICULUM DESIGN FOR M.A. ECONOMICS PROGRAMME

Sl. No	Course Code	Name of the Course	Credits	Teaching Hours	Max Marks		
					CIA	ESE	Total
SEMESTER I							
1	26CC01	Microeconomic Analysis	5	6	25	75	100
2	26CC02	Macroeconomic Analysis	5	6	25	75	100
3	26CO01a 26CO01b	1. Statistical Methods 2. Quantitative Techniques	5	5	25	75	100
4	26EC01a 26EC01b	1. Industrial Economics 2. Energy Economics	4	5	25	75	100
5	26EXPC01	Indian Economic Development	3	5	25	75	100
Seminar, Library, Leveraging E- resources, VAC, etc.			--	3	--	--	--
SEMESTER II							
1	26CC03	Mathematical Methods	5	5	25	75	100
2	26CC04	Economics of Growth and Development	5	5	25	75	100
3	26CO02a 26CO02b	1. Economics of Infrastructure 2. Managerial Economics	5	5	25	75	100
4	26EC02a 26EC02b	1. Agricultural Economics 2. Rural Economics	4	5	25	75	100
5	26EXPC02	Tamil Nadu Economy	3	5	25	75	100
6	26NMEC01a 26NMEC01b	1. Indian Economy 2. Introduction to Econometrics	2	3	25	75	100
Seminar, Library, Leveraging E-resources, VAC, etc.				2	--	--	--
SEMESTER III							
1	26CC05	Monetary Economics	5	5	25	75	100
2	26CC06	Econometrics	5	5	25	75	100
3	26CO03a 26CO03b	1. International Economics 2. International Business Environment	5	5	25	75	100
4	26EC03a 26EC03b	1. Health Economics 2. Environmental Economics	4	5	25	75	100
5	26EXPC03	Research Methodology	3	5	25	75	100
6	26NMEC02a 26NMEC02b	1. Global Economy 2. Business Economics	2	3	25	75	100
7	26CP01	Project		2	--	--	--
Seminar, Library, Leveraging E-resources, VAC, etc.			-	-	--	--	--
SEMESTER IV							
1	26CC07	Labour Economics	5	6	25	75	100
2	26CC08	Public Economics	5	6	25	75	100
3	26EIBC01	Entrepreneurial Development	5	6	25	75	100
4	26CP01	Project	5	12	20	80	100
Seminar, Library, Leveraging E- resources, VAC, etc.			--	--	--	--	--
Overall Total			90	120	520	1580	2100

EXTRA-CREDIT COURSES

S. No	Course Code	Name of the Course	Year	Credits	Teaching Hours	Max Marks		
						CIA	CEE	Total
NON-COLLEGIATE COURSES								
1	26VAC1	Microsoft Office Essentials for Social Sciences	I	2	30	25	75	100
2	26VAC2	Basic Application of SPSS in Research	II	2	30	25	75	100
3	26ONC01	UGC NET in Economics	I/II	2	-	-	-	-
4	26FPI01	Field Project/Internship	I	-	-	-	-	-
5	26FPI02	Field Project/Internship	II	-	-	-	-	-

Syllabus & Scheme

SEMESTER - I

Sl. No	Course Code	Name of the Course	Credits	Teaching Hours	Max Marks		
					CIA	ESE	Total
1	26CC01	Microeconomic Analysis	5	6	25	75	100
2	26CC02	Macroeconomic Analysis	5	6	25	75	100
3	26CO01a 26CO01b	1. Statistical Methods 2. Quantitative Techniques	5	5	25	75	100
4	26EC01a 26EC01b	1. Industrial Economics 2. Energy Economics	4	5	25	75	100
5	26EXPC01	Indian Economic Development	3	5	25	75	100
Seminar, Library, Leveraging E- resources, VAC, etc.			--	3	--	--	--
TOTAL			22	30	125	375	500

Course Title	MICROECONOMIC ANALYSIS	Semester	1
Course Code	26CC01	Credits	5
Course Category	Core Course	Teaching Hours	6
Course Objectives	• To study the basic Economics Problems. • To understand the Demand and Supply equilibrium. • To study the Theory of Price Formation. • To understand the Production Function and its Variables. • To analyse different types of Market Structures (Monopoly, Oligopoly and a competitive market).		
Unit – I	Introduction of Economics		
Basic Economic Problem – Choice and Scarcity – Deductive and Inductive Methods of Analysis – Positive and Normative Economics – Economic Models – Characteristics of Equilibrium and Disequilibrium Systems.			
Unit – II	Consumer Behaviour		
Elasticities of demand – Elasticity of supply – Theories of demand – Utility – Indifference Curve and their Applications – Revealed Preference Theory; Revision of Demand Theory by Hicks – Characteristics of Goods Approach – Consumer’s Choice Involving Risk – Indirect Utility Functions – Recent Developments in Demand Analysis – Consumer’s Surplus – Inter-temporal Consumption – Elementary Theory of Price Formation – Demand and Supply Equilibrium.			
Unit – III	Production Functions		
Production Function with One Variable Input and Two Variable Inputs – Cost Minimizing Input Choices – Some Common Production Functions – Cobb-Douglas and Constant Elasticity of Substitution Production Function – VES – Frontier Production - Returns to scale – Expansion Path.			
Unit – IV	Theories of Cost		
Cost – Types of Cost - Short Run and Long Run Costs and their Relationship in Traditional Cost Theory – Average Marginal Relationships – Modern Cost Theory – Economies and Diseconomies of Scale – Economies and Diseconomies of Scope.			
Unit – V	Market Structure		
Forms of Market – Perfect Competition; Price and Output Determination – Monopoly; Equilibrium Price and Output Determination – Price Discrimination, Monopoly Control and Regulation – Monopolistic Competition; Price and Output Determination – Oligopoly; features Models .			
Unit – VI	Current Contours (For Continuous Internal Assessment Only):		
Recent Theories and Developments in Micro Economics			

References:

1. Ahuja H.L (2019), "Principles of Microeconomics", S Chand Publishing, New Delhi.
2. Ahuja H.L(2017) Advanced Economic Theory,Sultan &chand,New Delhi
3. Andreu Mas-Colell, Michael D Whinston and Jerry R Greene (1995): Microeconomic Theory- 1st edition, Oxford University Press.
4. Andrew Schotter (2009): Microeconomics: A Modern Approach- 1st edition, South Western Cengage Learning.
5. Baumol W.J. and Alan Blinder – Micro Economics, Newyork University.
6. Baumol, W.J (1972), "Economic Theory & Operations Analysis", Prentice Hall, New Delhi.
7. Dominick Salvatore (2016):Micro Economic Theory(Tata McGraw Hill- NewDelhi
8. Edgar K Browning and Mark Zupan (2011): Microeconomics: Theory and Applications3rd edition.
9. Geoffrey A Jehle (2010): Advanced Microeconomic Theory- 3rd edition, Prentice Hall
10. Gregory Mankiw .N.(2018) Principles of Micro Economics,CENGAGE learning,USA
11. H L AHUJA (2026), 'Advanced Economic Theory Microeconomic Analysis', S CHAND AND COMPANY LIMITED, Uttar Pradesh (India).21st Edition.
12. Hal R. Varian (2019), 'Microeconomic Analysis', 3rd Edition, W. W. Norton & Company, New York, NY 10110, USA.
13. Hall R Varian (2014): Intermediate Microeconomics- A Modern Approach, WW Norton and Co.
14. Henderson, J.M & R.E. Quant (2017), "Micro Economic Theory: A Mathematical Approach,McGraw Hall", McGraw Hill Education Publication, New Delhi.
15. Hugh Gravelle and Ray Rees (2007): Microeconomics- 3rd edition, Pearson Education
16. Jeffrey M Perloff (2019): Microeconomics -7th edition, Pearson
17. Jeffrey M.P. (2004) "Microeconomics Addison Wisely Longman, Prentice Hall Publication, New Delhi
18. Koutsoyiannis, A. (1979), Modern Microeconomics, Macmillan Press, London.
19. Koutsoyiannis, A. (2000) Modern Microeconomics, (2nd Edition), Macmillan press, London
20. Koutsoyiannis. A.:(1985), Modern Microeconomics 2nd edition, Macmillan
21. Kreps, David M.(1998), A Course in Microeconomic Theory, Prentice Hall, India,New Delhi
22. Layard, P. R. G. and Walters, A.W. (1978), Microeconomic Theory, McGraw Hill,NewYork.
23. Layard, P.R.G. and Walters, A.W. (1978), Microeconomic Theory, McGraw Hill, London.
24. Mankiw, N.G. (2009), Economics: Principles and Applications, Cengage Learning, India edition
25. Mas-Colell, Andreu, Michael D.Whinston and Jerry R. Green, (1995), Microeconomic Theory, Oup, New York.
26. Michael E Wetzstein (2013): Micro economic Theory- Concepts and Connections, 2nd edition, Routledge.
27. Nicholson, W. (1992), Microeconomic Theory: Basic Principals and Extensions. TheDryden Press, USA.
28. Perloff, J. M. (2001), Microeconomics, Addison Wisely Longman, India.
29. Pindyck R. S. and Ruboinfeld, D. L. (1999), Microeconomics, Prentice Hall of India.
30. Robert Pindyck and Daniel Rubinfeld (2017), "Microeconomics", Pearson Education Publication, London, England.
31. Robert S Pindyck and Daniel L Rubinfeld (2017): Microeconomics- 8th edition, Pearson.

32. Salvatore, D. (2003), Micro economics; Theory and Applications. Oxford University Press, New Delhi.
33. Sanjay Rode(2013)Modern Micro Economics.bookboon.com
34. Sen A. (1999), Microeconomics: Theory and Application, Oxford University Press, New Delhi
35. Sen. A. K. (1999), Microeconomics - Theory and Applications, Oxford University Press.
36. Stigler,G. (1996), Theory of Price, PHI, New Delhi
37. Sujatra Bhattacharyya (2023). 'MICROECONOMICS' Oxford University Press, India. ISBN-13 : 978-9354979279
38. Thomas J Nechyba (2010): Microeconomics: An Intuitive Approach with Calculus- 1st edition, South Western Cengage Learning.
39. Varian, H.R. (2000), Microeconomic Analysis, W.W.Norton, NewYork
40. Varian, Hall .R (1990), Intermediate Microeconomics, W.W. Norton & Company, New York, London.
41. Varian, Hall R., (1992), Microeconomic Analysis (Third Edition), W.W. Norton & Company, New York, London.
42. Walter Nicholson (1992) 5th Ed, Microeconomic Theory: Basic Principals and Extensions, The Driden Press, USA.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Identify the Basic Economics Problems.	✓	✓		✓		
CO2	Gain Knowledge about the Consumer Behaviour.	✓	✓		✓		
CO3	Study the Production Function.	✓	✓		✓		
CO4	Analyse the Cost and its Relationship	✓	✓		✓		
CO5	Understand the Various Market Structures.	✓	✓	✓	✓	✓	

Course Title	MACROECONOMIC ANALYSIS	Semester	1
Course Code	26CC02	Credits	5
Course Category	Core Course	Teaching Hours	6

Course Objectives	After completing this course, the student will be able to: 1. Explain the Fundamental Concepts of Macroeconomics and National Income Accounting. 2. Describe the Theories of National Income Determination, Employment, Consumption and Saving. 3. Examine Investment Behaviour, Interest Theories and Macroeconomic Equilibrium using the IS–LM framework. 4. Analyse Inflation, Unemployment and Business Cycles using Major Macroeconomic Theories. 5. Evaluate the Role of Fiscal and Monetary Policies in Achieving Macroeconomic Stability and Economic Development.
--------------------------	---

Unit – I	Introductory Macroeconomics
Nature and Scope of Macroeconomics – Difference between Microeconomics and Macroeconomics – Circular Flow of Income in Two, Three and Four Sector Economy – Concepts of National Income: GDP, GNP, NDP, NNP, Personal Income, Disposable Income and Per Capita Income – Nominal and Real GDP – GDP Deflator – Methods of Measuring National Income – Difficulties in Measuring National Income – Green GDP.	
Unit – II	Theories of Employment and Consumption
Classical Theory of Employment – Say's Law of Markets – Keynesian Theory of Employment – Principle of Effective Demand – Aggregate Demand and Aggregate Supply – Equilibrium Level of Income and Employment – Keynes's Psychological Law of Consumption – Consumption and Saving Functions – Average and Marginal Propensity to Consume and Save – Absolute Income, Relative Income, Life Cycle and Permanent Income Hypotheses.	
Unit – III	Investment and Interest Determination
Types of Investment – Marginal Efficiency of Capital (MEC) – Marginal Efficiency of Investment (MEI) – Factors Determining Investment – Multiplier: Concept, Assumptions and Leakages – Accelerator Principle – Multiplier–Accelerator Interaction – Classical, Neo - Classical and Keynesian Theories of Interest – IS–LM Model and Policy Implications.	
Unit – IV	Theory of Inflation and Business Cycles
Types of Inflation – Demand-Pull and Cost-Push Inflation – Classical, Keynesian and Monetarist Approaches to Inflation – Phillips Curve Analysis – Stagflation – Adaptive and Rational Expectations – Meaning and Phases of Business Cycles – Theories of Schumpeter, Keynes, Samuelson–Hicks and Monetarist View – Measures to Control Business Fluctuations.	
Unit – V	Macroeconomic Policies
Objectives of Macroeconomic Policy – Fiscal Policy: Objectives and Instruments – Monetary Policy: Objectives and Instruments – Coordination of Fiscal and Monetary	

Policies – Crowding-in and Crowding-out Effects – Macroeconomic Policies in India – Current Macroeconomic Issues in the Indian Economy.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent theories and developments in Macro Economics.	

References:
1. Ackley, G. (1978), Macroeconomics : Theory and Policy, Macmillan, New York. 2. Branson, W. A. (2005). Macroeconomic Theory and Policy (3rd Edition). New Delhi: A.I.T.B.S. Publishers. 3. Dornbusch, R., Fischer, S., Startz, R., & Rao, D. T. (2026). Macroeconomics (13th Edition). New Delhi: McGraw Hill Education India. 4. Edward Shapiro (2015). Macroeconomic Analysis (5th Edition). New York: Harcourt Brace Jovanovich. 5. Gregory Mankiw N (2016), Principles of Macro Economics – A Road Map, (Harvard University), The Dryden Press, Harcourt Brace College Publishers, New York. 6. Glahe, Fred, R (1973), Macroeconomics: Theory and Policy, Harcourt Brace Jovanovich, Inc, New York. 7. Guide to Economic Indicators Making Sense of Economics, The Economist, Viva Books Private Ltd., Daryaganj, New Delhi. 8. Levancic, R. and A. Rebman (1986), Macroeconomics: An Introduction to Keynesian and Neo-classical Controversies, Macmillan, London. 9. Lucas, R. (1981), Studies in Business Cycle Theory, M.I.T. Press, Cambridge, Massachusetts. 10. Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd., New York. 11. Rakshit, M. (1998), Studies in the Macroeconomics of Developing Countries, Oxford University Press, New Delhi. 12. Reddy, Y.V. (2000), A Review of Monetary and Financial Sector Reforms in India-A Central Banker's Perspective, UBSPD, New Delhi 13. Olivier J. Blanchard and David R. Johnson (2017), Macroeconomics (7th Edition). London: Pearson Education. 14. Robert J. Barro (2008), Macroeconomics A Modern Approach, Thomson South-Western. 15. Soumen Sikdar (2020), Principles of Macroeconomics, OUP, India 16. William A. McEachern (2017), Macroeconomics: A Contemporary Introduction, Cengage Learning. 17. David Romer (2018), Advanced Macroeconomics, McGraw-Hill Education. 18. Sreejata Banerjee, P. Nandakumar Warriar (2018), Macroeconomics Theories and Applications for Emerging Economies, SAGE Publications. 19. Dwivedi, D. N. (2025). Macroeconomics (6th Edition). New Delhi: McGraw Hill Education India. 20. Ahuja, H. L. (2024). Macroeconomics: Theory and Policy (21st Edition). New Delhi: S. Chand & Company Ltd. 21. Acemoglu, D, Laibson, D., & List, J. A. (2024). Macroeconomics (4th Edition). London: Pearson.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Explain the Concepts of Macroeconomics, Circular Flow of Income and National Income Accounting.	✓	✓	✓	✓	✓	
CO2	Apply Macroeconomic Theories to Analyse National Income, Employment, Consumption and Saving Behaviour.	✓	✓		✓		
CO3	Analyse Investment Decisions, Theories of Interest and Equilibrium Using the IS–LM framework.	✓	✓		✓		
CO4	Examine the Causes and Effects of Inflation and Business Cycles Using Different Macroeconomic Approaches.	✓	✓		✓		
CO5	Evaluate the Effectiveness of Fiscal and Monetary Policies in Addressing Contemporary Macroeconomic Issues and Maintaining Economic Stability.	✓	✓		✓	✓	✓

Course Title	STATISTICAL METHODS	Semester	1
Course Code	26CO01a	Credits	5
Course Category	Core Choice Course	Teaching Hours	5
Course Objectives	Make the students • Classify the Different Types of Data. • Identify Univariate Analysis, Bivariate Analysis and Multivariate Analysis. • Define Probability and Theorems of Probability. • Learn Statistical Hypothesis and its Applicability in Research. • Understand the Importance of Index Numbers in Economic Analysis. • Cognizant of the Recent Developments in Statistical Methods for Economic Analysis.		
Unit – I	Data, Measures of Central Tendency and Dispersion		
Types of data – Qualitative and Quantitative, Discrete and Continuous, Time Series – Cross Section, Panel and Longitudinal Data – Data Mining - Measures of Central Tendency: Mean, Median, Mode – Measures of Central Tendency – Range, Standard Deviation, Coefficient of Variation - Univariate Analysis –Bivariate Analysis: Correlation Analysis – Methods of Measuring Correlation Co-Efficient – Pearson’s Coefficient of Correlation – Spearman’s Rank Correlation			
Unit – II	Regression and Time Series Analysis		
Regression Analysis – Regression Equations, Regression Co-efficients, Time Series Analysis – Multivariate Analysis: Factor Analysis & Principal Component Analysis.			
Unit – III	Understanding Probability		
Probability: Approaches to Probability – Classical or a Priori Probability, a Posteriori Probability – Importance of Probability; Calculation of Probability – Mutually Exclusive Events, Simple And Compound Events, Complementary Events, Exhaustive Events, Equally Likely Events; Theories of Probability – Addition Theorem, Multiplication Theorems – Conditional Probability, Mathematical Expectation.			
Unit – IV	Test of Significance		
Hypothesis: Qualities of a Hypothesis – Steps in Testing a Hypothesis – Formulation of Statistical Hypothesis – Null and Alternative – Level of Significance – Type 1 Error, Type II Error. Properties of Normal Distribution: Standard Error, One and Two Tailed Tests – Large and Small Sample Tests. Chi-square [χ^2], ANOVA – One Way and Two Ways.			
Unit – V	Index Numbers		
Index Numbers: Uses, Problems In The Construction of Index Numbers, Price Index and Quantity Index – Weighted Index and Unweighted Index, (Laspeyres, Paasche & Fisher’s Index Numbers) Chain Index, Base Shifting, Consumer Price Index Number and Cost of Living Index – Simple Aggregate Method & Family Budget Method.			
Unit – VI	Current Contours (For Continuous Internal Assessment Only):		
Recent Developments in Statistical Methods for Economic Analysis.			

References:
1. Aczel D Amir and Sounder Pandian Jayavel, Complete Business Statistics, Tata McGraw Hill Publishers, New Delhi ISBN 0070620164
2. Agarwal YP: Statistical Methods: Concepts, Application and Computation, Sterling Publishers 1986
3. Business Statistics for Contemporary Decision Making, 6th edition, John Wiley and Sons Inc., (2010).
4. Chou, Y. (1975), Statistics Analysis, Holt, Reinhart and Winston, New York.
5. Croxton, Crowden and Klein (1971), Applied General Statistics, Prentice Hall of India, New Delhi.
6. George G. Roussas (2024), 'An Introduction to Probability and Statistical Inference (3rd Edition)' Elsevier Publication, ISBN: 9780443187209.
7. Gupta, S.C. (2016) Fundamental of Statistics, Himalaya publications New Delhi.
8. Gupta, S.P. (2021), Statistical Methods, Sultan Chand, New Delhi. ISSN: 93-5161-176-9
9. Måns Thulin M (2026), "Modern Statistics with R", Chapman & Hall / CRC Press, Second Edition. ISBN 9781032512440.
10. Murray R. Spiegel and Larry J Stephens, Mc Graw Hill, Schaum outlines series, 2008
11. Nagar. A.L. and R.K. Das (1993), Basic Statistics, Oxford University Press, New Delhi.
12. Navdeep Kaur & Sarbjit Kaur (2022), 'Statistical Methods for Economics', Vishal publishing Co, Punjab. ISBN 97
13. Ott. Lyman and Michael Longnecker (2010) An introduction to statistical methods and data analysis, 5 th edition, Thomson learning Academic Resource centre, CANADA
14. Salvatore, Dominick (1982), Statistics and Econometrics, McGraw Hill, New Delhi.
15. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London
16. Taro Yamane (1973), Statistics: An Introductory Analysis, Harper & Row, Edition 3,

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Differentiate Various Kinds of Data.	✓	✓				
CO2	Analyse Univariate Data, Bivariate Data, and Multivariate Data.			✓	✓	✓	
CO3	Appreciate Probability and Theorems of Probability.		✓		✓	✓	
CO4	Write a Hypothesis for Different Types of Research and Test Its Significance for Small and Large Samples.			✓	✓	✓	✓
CO5	Calculate Price Index And Quantity Index.			✓	✓		

Course Title	Quantitative Techniques	Semester	1
Course Code	26CO01b	Credits	5
Course Category	Core Choice Course	Teaching Hours	5
Course Objectives	Make The Students • To Acquaint the Students with the use ff Quantitative Models in Decision Making • To Enable the Students to Learn about Formulation of Transportation Problem • To Understand about the Assignment Problems • To Teach the Project Management and Queuing Models • To Know the Evaluation of Replacement Analysis and Simulation		
Unit – I	Introduction and Linear Programming		
Operations Research - Quantitative Approach to Decision Making - Nature and Significance of PR in Decision Making - Models in Operations Research - Application Areas of Operation Research - Linear Programming - Assumptions - Limitations - Applications - Formulation of LP Problems - Solution Methods: Graphical Method (Maximization and Minimization) - Simplex Method (Maximization and Minimization (Big M Method).			
Unit – II	Transportation		
Formulation of Transportation Problem - Balanced and Unbalanced Problems - Minimization and Maximization Problems, Finding IBFS - Northwest Corner Rule (NWCR), Least Cost Rule (LCR) and Vogel's Approximation Method (VAM) - Optimality Tests - Modified Distribution Method (MODI).			
Unit – III	Assignment Problems		
Mathematical Formulation of an Assignment Problem - the Assignment Algorithm (Hungarian Assignment Method) - Balanced and Unbalanced Assignment Problems - Minimization and Maximization Problems - Restricted and Reserved Routes/Choice - Travelling Salesman Problem as an Assignment Problem.			
Unit – IV	Project Management		
Types of Networks - CPM: Critical Path Method and PERT: Programme Evaluation Review Technique - Basic Differences Between CPM And PERT - Drawing a Network - Obtaining of Critical Path - Time Estimates for Activities - Probability of Completion of Project - Determination of Floats (Total, Free, Independent).			
Unit – V	Replacement Analysis And Simulation		
Replacement of Capital Assets - Discrete Cases when Time Value of Money is not Considered and When Time Value of Money is Considered - Replacement of Items that fail Suddenly - Monte-Carlo Method of Simulation.			
Unit – VI	Current Contours (For Continuous Internal Assessment Only):		
Recent Developments in Quantitative Techniques for Economic Analysis.			

References:

1. George G. Roussas (2024), 'An Introduction to Probability and Statistical Inference (3rd Edition)' Elsevier Publication, ISBN: 9780443187209.
2. Gupta, S.P. (2021), Statistical Methods, Sultan Chand, New Delhi. ISSN: 93-5161-176-9
3. Gurusamy, S. (2015). Operations Research. Vijay Nicole Imprints Private Limited.
4. Hamdy A. Taha., Operations Research: An Introduction, 11th Edition (Global Edition, 2023/2024), Pearson Education, ISBN: 9781292468044.
5. Kanti Swarup, P.K. Gupta, & Man Mohan (2022/Reprint), Operations Research, 20th Revised Edition (2022/Reprint) Sultan Chand & Sons, ISBN: 9789351611837
6. Kapoor, V. K. (2014). Operations Research: Quantitative Techniques for Management (9th ed.). Sultan Chand & Sons.
7. Learning. Kapoor, V. K. (2014). Operations Research: Quantitative Techniques for Management (9th ed.). Sultan Chand & Sons. Gurusamy, S. (2018). Operations Research (2nd ed.). Vijay Nicole Imprints.
8. Måns Thulin M (2026), "Modern Statistics with R", Chapman & Hall / CRC Press, Second Edition. ISBN 9781032512440.
9. Navdeep Kaur & Sarbjit Kaur (2022), 'Statistical Methods for Economics', Vishal publishing Co, Punjab. ISBN 97
10. R. Panneerselvam, Operations Research, 3rd Edition (2023), PHI Learning, ISBN: 9789354437892
11. Sharma, J. K. (2024). Operations Research: Theory and Applications (Reprint/Updated, 2024). Trinity Press / Laxmi Publications (formerly Macmillan India Ltd.).
12. Sultan Chand & Sons. Panneerselvam, R. (2023). Operations Research (3rd ed.). PHI
13. Swarup, K., Gupta, P. K., & Man Mohan. (2020). Operations Research (18th ed.). Sultan Chand & Sons (frequently distributed alongside S. Chand).
14. Swarup, K., Gupta, P. K., & Man Mohan. (2022). Operations Research (20th rev. ed.).
15. Taha, H. A. (2017). Operations Research: An Introduction (10th ed.). Pearson Education (originally Macmillan).
16. Taha, H. A. (2024). Operations Research: An Introduction (11th Global ed.). Pearson.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Gain Knowledge About Formulation of Transportation Problem	✓	✓				
CO2	Understand About Formulation of Transportation Problem			✓	✓	✓	
CO3	Get an Outstanding about the Assignment Problems		✓		✓	✓	
CO4	Know about Project Management and Queuing Models.			✓	✓	✓	✓
CO5	Gain an Understanding about the Replacement Analysis and Simulation.			✓	✓		

Course Title	INDUSTRIAL ECONOMICS	Semester	1
Course Code	26EC01a	Credits	4
Course Category	Elective Course	Teaching Hours	5

Course Objectives	• To Provide Various Concepts and Framework of Study of Industrial Economics. • To Acquire the Knowledge of Policies Related Industrial Sector • To Create the Awareness about the Available Financial Sources to Industries. • To Equip the Students to Take Decision on Investment and Understanding the Legal Framework of Industrial Sector. • To Enable the Students to Measure Productivity Numerically by using Econometric Techniques.
--------------------------	--

Unit – I	Theory of the Firm and Pricing
Firm And Industry – Objectives of the Firm – Traditional Theories of the Firm – Industrial Location - Managerial Theories – Behavioural Theories – Pricing Policies and Practices – Pricing Methods – Product Line Coverage and Pricing – Pricing and Advertising.	
Unit – II	Industrial Legislations
Monopoly and Concentration – Measurement of Market Concentration – FEMA – CCI – Sickness In Indian Industry – Small Scale Enterprises – Role of SSI In Indian Economy – Small Scale Sector Policy- EXIT Policy – Golden Hand Shake Policy – SEZ Policies – FTWZ Policies – R&D Policy – Venture Capital – MSME – Start-Ups: Make in India.	
Unit – III	Industrial Finance
Need for Finance – Types of Finance – Sources of Finance – Development Banking – IFCI – IDBI – ICICI – SFCS – SIDBI – NBFCs – Funds Flow Statements – Need, Managerial use and Limitations.	
Unit – IV	Investment Decisions
Financial Ratio Analysis – Interpretation and Classification of Ratios – Methods of Project Evaluation – The Payback Method, NPV, IRR – Assessment of Investment Appraisal Techniques – Inventory Investment Appraisal Profitability.	
Unit – V	Measurement of Industrial Productivity
Industrial Efficiency of Factors – Theory of Production Function – Cobb-Douglas and CES – Measurement of Productivity – Partial Factor Productivity – Incremental Productivity Ratios – Total Factor Productivity – Kendrick, Solow Indices – Measurement of Technical Efficiency.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Theories and Developments in Industrial Economics.	

References:	
1.	B.N Goldar (1986), “Productivity Growth in Indian Industry”, Allied Publishers (P) Ltd, New Delhi,.
2.	Barthwal R R (2024), “Industrial Economics: An Introductory Textbook” 5th Edition, New Age International Publishers, New Delhi
3.	Devine P.J (1985), “An Introduction to Industrial Economics”, George Allen & Unwin, London.
4.	Hay D.A & Morris D.J (1979), “Industrial Economics Theory and Evidence”, Oxford University Press, Oxford.
5.	Pandey I.M (1986), “Elements of Financial Management” Wiley Eastern Ltd., New Delhi..
6.	Rajan Mishra (2008), “Industrial Economics and Management Principles” Firewall Media,
7.	Sanhey S. C (1991). “Productivity Management: Concepts and Techniques,” Tata McGraw Hill, New Delhi,
8.	Staley, E & Morse R. (1965), Modern Small Industry for Developing Countries, McGraw Hill Book Company.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understanding the Various Concepts and Theories of Industrial Economics.	✓	✓				
CO2	Understand the Legal Aspects and Policies of Industrial Economics.		✓				
CO3	Able to Identify The Financial Sources to Start a Business.		✓	✓			
CO4	Analysing the Financial Ratios and Project Evaluation for Investment Decision.		✓	✓	✓		
CO5	Measuring the Industrial Productivity and Efficiency.				✓	✓	✓

Course Title	ENERGY ECONOMICS	Semester	1
Course Code	26EC01b	Credits	4
Course Category	Elective Course	Teaching Hours	5

Course Objectives	• To Provide Various Concepts and Framework of Study of Energy Economics. • To Acquire the Knowledge of Policies Related Energy Sector • To Create the Awareness about the Available Energy Sources • To Equip the Students to take Decision on Energy Planning and Understanding the Legal Framework of Energy Sector. • To Enable the Students to Understand the India's Energy Sector.
--------------------------	---

Unit – I	Introduction to Energy Economics
Natural Resources – Classification – Importance – Role of Natural Resources in Economic Development – Energy Resources – Classification – Properties and Forms of Energy – Energy Economics – Origin, Scope and Nature.	
Unit – II	Energy And Development
Role of Energy in Economic Development – Energy Indicators – Energy Intensity and Energy Elasticity – National and International Comparison – Role of International Institutions – OPEC, ODAPEC, IEA, and World Bank.	
Unit – III	Energy And Environment Nexus
Energy Environment Nexus Crisis – Causes and Consequences – Remedial Measures – Impact of Energy Consumption and Production on Environment With Illustrations – Role of Energy Economists in Solving Energy Crises.	
Unit – IV	Energy Planning and Management
Energy Planning and Energy Conservation – Objectives and Importance – Energy Management – Objectives and Importance - Recent Developments: Energy Auditing – Energy Accounting – Energy Conservation - Energy Pricing and Taxes – Role of Economists in Sustainable Energy Management.	
Unit – V	India's Energy Profile
Indian Energy Sector – Organizational Structure – Energy Supply Sources and Trends in Production – Energy Demand on Sectoral Consumption Trend – Renewable Energy Sources and Technologies – Renewable Energy Programmes in India.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Theories and Developments in Energy Economics.	

References:	
1.	Agarwal, M.C and Monga, J.R. (1992) “Economic and Commercial Geography”, National Publishing House, New Delhi.
2.	Agarwal, S.K. (1985): Environment and Natural Resources Economics, Scott Foresman & Co., London.
3.	Common, M. (1985): Environmental and Resource Economics, Longman, London.
4.	David Pearct et al., (1990): Sustainable Development – Economics and Environment in the Third World, Earths Can Publications, London.
5.	Karpagam, M. (1991): Environmental Economics, Sterling, New Delhi.
6.	Kneese, A.V and Sweeny, J.L, (1993): Handbook of Natural Resource and Energy Economics, North Holland.
7.	Massimo Filippini and Suchita Srinivasan (2024) “An Introduction to Energy Economics, Cambridge University press.
8.	Munasinghe, M and Meier, P (1993): Energy policy and modeling, Cambridge University Press, UK,
9.	Richard Eden (1981): Energy Economics – Growth, Resources and Policies, Cambridge University Press, London.
10.	TERI (2015): Teri Energy Data Directory and Year Book 2014-15, The Energy Research Institute, New Delhi.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understanding the Various Concepts and Theories of Energy Economics.	✓	✓				
CO2	Understand The Legal Aspects And Policies of Energy Economics.		✓				
CO3	Able to Identify the Energy Sources for Solving Energy Crisis.		✓	✓			
CO4	Analysing the Energy Auditing and Energy Accounting and Energy Conservation for Energy Planning.		✓	✓	✓		
CO5	Understanding the India’s Energy Sector.				✓	✓	✓

Course Title	INDIAN ECONOMIC DEVELOPMENT	Semester	1
Course Code	26EXPC01	Credits	3
Course Category	Experimental Course	Teaching Hours	5
Course Objectives	• To Make the Students Understand Indian Economic Development Since Independence. • To Understand Demographic Features of Indian Population. • To Familiarize the Features of Agricultural and Industrial Sector of India • To Familiarize the Features of Service Sector of India. • To Analyse the Problem of Poverty and Unemployment in India and the Various Government Schemes to Reduce it. • To Make Students Cognizant of the Recent Developments in Indian Economy.		
Unit – I	Economic Development Since Independence		
Economic Development During Colonial Rule – Economic Development Since Independence – Structural Change Since Independence – Political, Economic and Social – Economic Policies Since 1991.			
Unit – II	Demography And Regional Development		
Demographic Features of Indian Population – Density of Population – Demographic Transition of Population – Age Composition of Population – Role of Human Capital - Rural-Urban Migration – Urbanization – Social Infrastructure – Education, Health And Environment - Regional Imbalance – Regional Policy in India - Regional Differentials in India’s Development. – Smart City Programmme.			
Unit – III	Agricultural Sector and Industrial Sector		
The Place of Agriculture in the National Economy – Credit and Agricultural Subsidy Policy – Agricultural Marketing and Price – Green Revolution – Performance of Agriculture Sector– Review of Industrial Growth Since Independence – Industrial Structure: Traditional – Industrial Policy Resolutions – Performance of Industrial Sector.			
Unit – IV	Service Sector and Infrastructure Development		
Infrastructure Development in India – Growth and Performance of Service Sector in India – Railways, Roads, Shipping and Airways – Energy – Power – Banking – Insurance – Telecommunications – IT Industry – ICT – Health and Education - Logistics.			
Unit – V	Poverty And Unemployment		
Types – Head Count Ratio, Poverty Gap and Squared Poverty Gap Index; Estimates of Poverty: Various Committees – Poverty Alleviation Programmes – Food Security – Role of Micro Finance – Unemployment: Types, Nature and Causes – Informalisation of Indian Work Force – Employment Prospective of the Central and State Governments Plans – Schemes to Reduce Unemployment.			
Unit – VI	Current Contours (For Continuous Internal Assessment Only):		
Recent Developments in Indian Economy.			

References:	
1.	A V Balakrishnan, (2022, 3 rd Ed., Economic Development in India (Policies, Reforms and Liberalisation), GK Publications, G.K. Publications Pvt Ltd.
2.	Agrawal, A.N. (2019, 43 rd Ed.) Indian Economy, New Age International Pvt.
3.	Bardhan, P.K. (9th Edition) (2014), The Political Economy of Development in India, Oxford University Press, New Delhi.
4.	Chetan Ghate (2018), Monetary Policy in India: A Modern Macroeconomic Perspective, Springer (India) Pvt. Ltd. Datt Ruddan and K.P.M. Sundaram (2018, 65 th Ed.), Indian Economy, S. Chand & Co., New Delhi.
5.	Datt & Sundharam's Indian Economy, published in its 74th updated edition in May 2026 by S. Chand Publishing, New Delhi, India.
6.	Dhar, P .K, (2014, 6 th Ed.) Indian Economy - its growing dimensions, Kalyani Publishers, New Delhi.
7.	Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
8.	Jalan, B. (2020), The Indian Economy – Problems and Prospects, Penguin India, New Delhi.
9.	Mahendradev S (2010): Inclusive Growth in India- Oxford University Press, New Delhi.
10.	Mishra, Puri, Garg (2022, 40 th Ed.), Indian Economy, Himalaya Publishing House, New Delhi.
11.	Rahul Kumar (2024), 'Indian Economic Development' Crown Publishing, Chhattisgarh. India
12.	Rakesh Mohan (2018) India Transformed: 25 Years of Economic Reforms, Penguin Random House India.
13.	Ramesh Chand, Pramod Joshi (2022, 1 st Ed.) Indian Agriculture Towards 2030: Pathways for Enhancing Farmers' Income, Nutritional Security and Sustainable Food and Farm Systems. Springer Verlag, Singapore.
14.	Ramesh Singh, 'Indian Economy', 18th Edition (2026), McGraw Hill Education, New Delhi.
15.	Reserve Bank of India, Report of Currency and Finance, (Annual).
16.	Sanjay Kaul (2022, 1 st Ed.), An Alternative Development Agenda for India, Taylor & Francis Ltd.
17.	Uma Kapila (2022, 23 rd Ed.), Indian Economy: Performance and Policies, Academic Foundation.
18.	Uma Kapila (2022, 33 rd Ed.), Indian Economy since Independence, Academic Foundation.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Gain Knowledge about the Development Strategies of India Since Independence.	✓	✓		✓	✓	✓
CO2	Understand the Features Indian Demography.	✓	✓		✓	✓	✓
CO3	Evaluate the Policies and Performance of Agriculture and Industry.	✓	✓		✓	✓	✓
CO4	Evaluate the Policies and Performance of Service Sector.	✓	✓		✓	✓	✓
CO5	Get Knowledge on Role of External Sector in the Economic Development of a Nation.	✓	✓		✓	✓	✓

Syllabus & Scheme

SEMESTER - II

Sl. No	Course Code	Name of the Course	Credits	Teaching Hours	Max Marks		
					CIA	ESE	Total
1	26CC03	Mathematical Methods	5	5	25	75	100
2	26CC04	Economics of Growth and Development	5	5	25	75	100
3	26CO02a 26CO02b	1. Economics of Infrastructure 2. Managerial Economics	5	5	25	75	100
4	26EC02a 26EC02b	1. Agricultural Economics 2. Rural Economics	4	5	25	75	100
5	26EXPC02	Tamil Nadu Economy	3	5	25	75	100
6	26NMEC01a 26NMEC01b	1. Indian Economy 2. Introduction to Econometrics	2	3	25	75	100
Seminar, Library, Leveraging E- resources, VAC, etc.			--	2	--	--	--
TOTAL			24	30	150	450	600

Course Title	MATHEMATICAL METHODS	Semester	2
Course Code	26CC03	Credits	5
Course Category	Core Course	Teaching Hours	5

Course Objectives	Make The Students • Understand Basic Terminologies of Mathematical Methods. • Employ the Rules of Differentiation in Calculating Marginal and Average Values of Cost and Revenues. • Estimate the Cost Minimization and Profit Maximization. • Learn Matrices and its Significance. • Practice Game Theory and Linear Programming Models. • Develop New Mathematical Models for Economic Analysis.
--------------------------	--

Unit – I	Introduction
Concepts and Tools – Addition, Subtraction, Multiplication and Division of Fractions and Decimals – Square Roots – Logs – Equations – Linear, Non-Linear; Constants, Variables, Parameters, Intercepts – Coefficients – Functions – Demand and Supply Functions – Cost and Revenue Functions – Consumption Function – IS & LM Functions – Market Equilibrium.	
Unit – II	Differential Calculus
Rules of Differentiation – Slopes – Marginal Values – Cost and Revenue Functions – Normal Revenue Conditions and Normal Cost Conditions – Derivatives of Higher order; Elasticity of Demand, Growth Rate, Functions of More Than Two Variables – Use of Derivatives in Economics – Value Determination of Derivatives (NP1997: Merton & Scholes).	
Unit – III	Partial Derivatives
Cross Partial Derivatives – Young’s Theorem – Constrained & Unconstrained Optimization – Lagrangian Multiplier– Cobb-Douglas Production Function; Maximization, Minimization (Revenue Maximization, Profit Maximization and Cost Minimization.) – Utility Function – Production Function.	
Unit – IV	Matrices and Determinants
Matrices: Null, Square, Rectangular, Symmetric Matrices – Row, Column Vectors – Addition, Subtraction, Multiplication of Matrices – Determinant – Properties of Determinants – Cofactor, Transpose, Adjoint and Inverse Matrices – Conversion of Equations into Matrices – Solving Equations – Cramer’s Rule – uses — Coefficient Matrix.	
Unit – V	Linear Programming
Linear Programming: Characteristics of Linear Programming, Formulation of an LP Problem – Graphic Method – Simplex Method – Importance of Linear Programming in Economics – Applications of LP Technique - Input-Output Analysis	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Mathematical Models.	

References:

1. Agarwal and Joshi (1983), Mathematics for Economist, The New Academic Publishing Co. Jalandhar.
2. Allen, R.G.D. (1974) Mathematical Analysis of Economists, Macmillan Press and ELBS, London.
3. Chiang, A.C. (1986) Fundamental Methods of Mathematical Economics, McGraw Hill, New York
4. Edward T Dowling: Introduction to Mathematical Economics, Third Edition, Schaum's Outlines, Tata McGrawhill Publishing Co. Ltd, New Delhi.
5. Fuente, A. d. l. (2000). Mathematical methods and models for economists. United Kingdom: Cambridge University Press
6. Hoy, M., Livernois, J., McKenna, C., Rees, R., & Stengos, T. (2022). Mathematics for Economics (4th ed.). The MIT Press.
7. Klein, M. W. (2013). Mathematical Methods for Economics (2nd Pearson New International ed.). Pearson Education.
8. Michael Hoy, John Livernois, Chris McKenna, Ray Rees and Thanasis Stengos (4th Edition, 2022), 'Mathematics for Economics' The MIT Press, Cambridge, Massachusetts, USA.
9. Michael Klein (Second Edition, 2013), 'Mathematical Methods for Economics', Pearson Education Ltd., UK.
10. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
11. Mukherji, A., Guha, S. (2011). Mathematical Methods and Economic Theory. India: OUP India.
12. Salvatore Dominick (1992) Mathematics for Economists, Schaum Series
13. Schofield, N. (2018). Mathematical Methods in Economics. United States: Taylor & Francis.
14. Sydsæter, K., Hammond, P., Strøm, A., & Carvajal, A. (2021). Essential Mathematics for Economic Analysis (6th ed.). Pearson Education.
15. Weber (1986) Mathematical Analysis – Business and Economic Applications

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Recall the Concepts, Equations, and Functions etc. in Mathematical Methods.	✓	✓				
CO2	Estimate Average Cost, Average Revenue, Marginal Cost, Marginal Revenue etc. after Understanding Derivatives.	✓	✓	✓	✓		
CO3	Evaluate Cost Minimization and Profit Maximization by Partial Derivative Method.			✓	✓	✓	
CO4	Solve the System of Equations by Crammer's Rule and Matrices Methods.		✓	✓	✓		
CO5	Apply Linear Programming Technique to Take Effective Decision in Business			✓	✓	✓	

Course Title	ECONOMICS OF GROWTH AND DEVELOPMENT	Semester	2
Course Code	26CC04	Credits	5
Course Category	Core Course	Teaching Hours	5

Course Objectives	• To Understand Economic Growth and Development. • To Study the Theories of Growth and Development. • To Identify the Various Growth Models. • To Study the Sectoral Aspects of Development. • To Analyse the Trade and Development of the Economy.
--------------------------	---

Unit – I	Economic Growth and Development
Factors Determining Economic Growth and Development – Obstacles of Economic Growth and Development – Economic Development and Sustainable Development.	
Unit – II	Theories of Growth and Development
Early Growth Theories: Mercantilist Growth Theory, Physiocratic Growth Theory, Adam Smith's Theory of Economic Growth – Keynesian Theory of Secular Stagnation – Marxian Theory of Economic Growth – Endogenous Growth Theory – Schumpeter Innovation Theory – Pigou Theory.	
Unit – III	Growth Models
Growth Models – Harrod-Domar Model - Joan Robinson's Model of Capital Accumulation – Meade's Neoclassical Model - Solow's Model of Long-Run Growth – Kaldor's Model – Models of Technical Change – Mahalanobis Model - Lewis Model – Amartya Sen Model.	
Unit – IV	Sectoral Aspects of Development
Rationale And Pattern of Industrialization in Developing Countries – Choice of Techniques, Appropriate Technology and Employment – Efficiency of Small-Scale Vs. Large-Scale Production – Terms of Trade Between Agriculture and Industry – Infrastructure and its Importance.	
Unit – V	Trade And Economic Development
International Trade as Engine of Growth – Static and Dynamic Gains from Trade – Prebisch-Singer and Myrdal Thesis Vs Free Trade – Export-Led Growth – Dual Gap Analysis – Balance of Payments – Tariffs and Effective Protection – International Economic Order – OPEC- G7 – SAARC - BRICS and Developing Countries.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Theories of Economic Development and Growth.	

References:	
1.	Claudia Sunna And Davide Gualerzi (2020), "Development Economics In The Twenty-First Century (Perspectives In Economic And Social History)", Routledge Publication, Oxfordshire, England, Uk
2.	Gupta K. R (2014), "Economic Growth Models", Atlantic Publishers, New Delhi.
3.	Jain N.K (2019), "Economics Of Growth And Development", Sanjeev Prakashan Publication, Rajasthan.
4.	Jhingan M. L (2019), "The Economics Of Development And Planning", Vrinda Publications (P) Ltd, New Delhi.
5.	Michael Todaro And Stephen Smith (2014), "Economics Development" Pearson Publishers, New Delhi.
6.	Rahul Kumar (2024), 'Indian Economic Development' Crown Publishing, Chhattisgarh. India
7.	Rakesh Mohan (2018) India Transformed: 25 Years Of Economic Reforms, Penguin Random House India.
8.	Ramesh Chand, Pramod Joshi (2022, 1 st Ed.) Indian Agriculture Towards 2030: Pathways For Enhancing Farmers' Income, Nutritional Security And Sustainable Food And Farm Systems. Springer Verlag, Singapore.
9.	Ramesh Singh, 'Indian Economy', 18th Edition (2026), Mcgraw Hill Education, New Delhi.
10.	Thirlwall A.P And Penélope-Lopez (2022), "Economics Of Development: Theory And Evidence", Bloomsbury Academic Publication, New Delhi

Course Outcomes							
On Completion of the Course, Students Should be Able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understand the Growth and Development of Economy		✓	✓	✓		
CO2	Get Knowledge about the Theories of Growth and Development	✓	✓		✓		
CO3	Understand the Different Models of Growth of Economy	✓	✓		✓	✓	
CO4	Aware the Sectoral Aspects of Development of Economy	✓	✓		✓		
CO5	Understand the Gains from Trade	✓	✓	✓			

Course Title	ECONOMICS OF INFRASTRUCTURE	Semester	2
Course Code	26CO02a	Credits	5
Course Category	Core Choice Course	Teaching Hours	5

Course Objectives	• To Provide a Framework of Infrastructure. • To Understand the Structure of Transport, Electricity, Gas and Water Supply. • To Enable Students to Understand the Energy Economy of India. • To Analyse the Role of Social Infrastructure and Financing in the Economic Development. • To Make Students Cognizant of the Recent Infrastructure in Modern India.
--------------------------	---

Unit – I	Introduction and Framework
Infrastructure and Economic Development – Infrastructure as a Public Good; Social and Physical Infrastructure; Special Characteristics of Utilities. the Peak-Load, Off-Load Problem, Dual Principle Controversy	
Unit – II	Transport, Electricity, Gas and Water Supply
The Structure of Transport Costs and Location of Economic Activities - Models of Freight and Passenger Demand. Model Choice; Cost Functions in the Transport Sector. Principle of Pricing. Special Problems of Individuals Modes of Transport. Bulk Supply and Pricing of Electricity; the Relative Economics of Thermal, Hydel and Nuclear Power Plants; National Power Grid; Financing Water Utilities; Urban and Rural Water Supply; the Exploitation of Natural Gas; Pricing Problem.	
Unit – III	Energy Economics
Primacy of Energy in the Process of Economic Development- Factors Determining Demand for Energy; Effects of Energy Shortages- Energy Conservation-Renewable and Nonconventional Sources of Energy - the Search for an Optimal Energy Policy in the Indian Context..	
Unit – IV	Social Infrastructure and Financing
Organization and Financing of Services - Private Vs. Public Sector Financing - the Fixation of Prices of Social Services-Health, Education and Human Development Concept - Scope and Relevance of Human Resource Development - Education and Economic Growth - Educational Planning -Social Demand -the Case for Universal, Free, Primary Education; Structure of Higher Education and Problems of its Financing in India; the Issues in Education Policy – Importance of Health and its Impact on Economic Development.	
Unit – V	Infrastructure in Modern India
Infrastructure in Modern India – Strategies for Infrastructure Development: Road, Water and Airways - Infrastructure Investments in India – Prioritization of Infrastructure Sectors for Development – Macro Perspective of Infrastructure Development in India - Defence.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Indian Economy.	

References:
1. Crew, M.A. P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London.
2. Edward L. Glaeser and James M. Poterba (2021), 'Economic Analysis and Infrastructure Investment', The University of Chicago Press, Chicago
3. Indian Council of Social Sciences Research (ICSSR)(1976), Economics of Infrastructure, Vol. VI, New Delhi.
4. José A. Gómez-Ibáñez and Zhi Liu (2022), 'Infrastructure Economics and Policy: International Perspectives', Lincoln Institute of Land Policy, USA.
5. Loganathan and R. Asokan (2023), 'Economics of Infrastructure' Manglam Publications, New Delhi.
6. National Council of Applied Economic Research (NCAER) (1996), India Infrastructure Report;
7. Parikh, K.S. (Ed.) (1997), India Development Report , Oxford, New Delhi.
8. Policy Implications for Growth and Welfare, NCAER, New Delhi.
9. Turvey. R. (Ed.) (1968), Public Enterprises, Penguin, Harmondsworth.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Learn Key Framework of Infrastructure.	✓	✓		✓	✓	✓
CO2	Evaluate Structure of Transport, Electricity, Gas and Water Supply	✓	✓		✓	✓	✓
CO3	Analyse the Outcomes of Monetary Policy Reforms in India.	✓	✓		✓	✓	✓
CO4	Analyse the Outcomes of Energy Economy of India.	✓	✓		✓	✓	✓
CO5	Get Knowledge on Role of Social Infrastructure and Financing in the Economic Development.	✓	✓		✓	✓	✓

Course Title	MANAGERIAL ECONOMICS	Semester	2
Course Code	26CO01b	Credits	5
Course Category	Core Choice Course	Teaching Hours	5

Course Objectives	• To Familiarize with the Students the Importance of Economic Approaches in Managerial Decision Making. • To Understand the Applications of Economic Theories in Business Decisions. • To Understand the Various Market Structures. • To Study the National Income and Business Cycles. • To Analyse the Macroeconomic Environmental Factors.
--------------------------	---

Unit – I	Introduction of Managerial Economics
General Foundations of Managerial Economics – Economic Approach – Circular Flow of Activity – Nature of the Firm – Objectives of Firms – Demand Analysis and Estimation – Individual, Market and Firm Demand – Determinants of Demand – Elasticity Measures and Business Decision Making – Demand Forecasting.	
Unit – II	Theories Of Firm And Costs
Law of Variable Proportions – Theory of the Firm – Production Functions in the Short and Long Run – Cost Functions – Determinants of Costs – Cost Forecasting - Short Run and Long Run Costs – Type of Costs – Analysis of Risk and Uncertainty – Break Even Analysis – Capital Budgeting.	
Unit – III	Market Structures
Product Markets – Determination Under Different Markets – Market Structure – Perfect Competition – Monopoly – Monopolistic Competition – Duopoly – Oligopoly – Pricing and Employment of Inputs under Different Market Structures – Price Discrimination – Degrees of Price Discrimination.	
Unit – IV	National Income and Business Cycles
Introduction to National Income – National Income Concepts – Models of National Income Determination – Economic Indicators – Technology and Employment – Issues and Challenges – Business Cycles – Phases – Management of Cyclical Fluctuations – Fiscal and Monetary Policies.	
Unit – V	Macroeconomic Environment
Macroeconomic Environment – Economic Transition in India – a Quick Review – Liberalization, Privatization and Globalization – Business and Government – Public-Private Participation (PPP) – Industrial Finance – Foreign Direct Investment (FDIS).	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Managerial Economics.	

References:	
1.	Adam Smith (2018), "The Wealth of Nations", Fingerprint! Publishing, New Delhi
2.	Ahuja H. L (2022), "Managerial Economics", S Chand And Company Ltd, New Delhi
3.	Christopher R. Thomas and S. Charles Maurice (14th Edition, 2024), 'Managerial Economics: Foundations of Business Analysis and Strategy' McGraw-Hill Education
4.	D.N. Dwivedi (10th Edition 2024), 'Managerial Economics', Vikas Publishing House, India. ISBN-13 : 978-9359306629
5.	Dominick Salvatore and Siddhartha Rastogi (9th Edition, 2020), 'Managerial Economics: Principles and Worldwide Applications', Oxford University Press, India
6.	Geetika, Ghosh & Choudhury (2005), "Managerial Economics", Cengage Learning Publication, New Delhi.
7.	Paul Samuelson and William Nordhaus (2010), "Economics", McGraw Hill Education, New Delhi
8.	Thomas (2012), "Managerial Economics: Concepts And Applications", Tata McGraw Hill Education, New Delhi
9.	William F. Samuelson and Stephen G. Marks (2008), "Managerial Economics", Wiley India Private Limited, New Delhi
10.	William F. Samuelson and Stephen G. Marks (2025), 'Managerial Economics: Analysis and Management', 10th Edition. Wiley Publication, Hoboken, New Jersey, U.S, ISBN: 978-1-394-26807-8

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understand the Managerial Economics.	✓	✓		✓		
CO2	Aware of the Various Types of Costs and its Theories.	✓	✓		✓		
CO3	Study the Different Markets.	✓	✓	✓	✓		
CO4	Analyse the Calculation of National Income and its Benefits.	✓	✓	✓	✓		
CO5	Understand the Macroeconomic Environmental Factors.	✓	✓		✓		

Course Title	AGRICULTURAL ECONOMICS	Semester	2
Course Code	26EC02a	Credits	4
Course Category	Elective Course	Teaching Hours	5

Course Objectives	• To Provide Various Concepts and Framework of Study of Agricultural Economics. • To Provide a Detailed Treatment of Issues in Agricultural Economics to Those Intending to Specialize in This Area. • To Familiarize Students with Policy Issues that are Relevant to Indian Agricultural Economics. • To Enable Students to Understand the Agricultural Marketing Strategies of India. • To Have a Comprehensive Knowledge on Agriculture and Globalization.
--------------------------	--

Unit – I	Agriculture and Economic Development
Nature and Scope of Agriculture – Traditional Agriculture and Modern Agriculture – Zero Budget Farming and Organic Farming – Role of Agriculture in Economic Development – Interdependence between Agriculture and Industry – Agricultural Development, Poverty and Environment - New Farm Laws.	
Unit – II	Agriculture Finance and Land Utilisation
Types of Land – Land Use Pattern – Subdivision and Fragmentation – Land Reform Policy in India – Agricultural Finance – Institution and Non-Institutional Sources – NABARD – PACAS – RRB – Land Development Bank – Impact of Indebtedness: Farmer Suicide.	
Unit – III	Agricultural Production and Productivity
Agricultural Production – Resource use and Efficiency – Factor Combination and Resource Substitution – Inter Regional Variation in Growth of Output and Productivity – Cropping Pattern Shifts – Farm Budgeting and Cost Concepts – Technical Change, Labour Absorption And Gender Issues – GM Crops and their Impacts – Crop Insurance.	
Unit – IV	Agricultural Marketing in India
Marketing and State Policy – Agricultural Markets and Marketing Efficiency - Marketable Surplus – Behaviour of Agricultural Prices – State Policy with Respect to Agricultural Marketing: Regulated Markets - FPOS and E-NAMS – Warehousing – Terms of Trade Between Agricultural and Non-Agricultural Prices .	
Unit – V	Agriculture And Globalization
International Trade in Agricultural Commodities – Role of World Trade Organization; Issues in Liberalization of Domestic and International Trade in Agriculture – Impact of WTO on Indian Agriculture – AOA – Import and Export Policies for Agricultural Produces in India.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Agricultural Economics.	

References:

1. Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilrami, S.A.R. (2017), An Introduction to Agriculture Economics, Himalayas publishing house, Delhi.
3. Dantwala, M.L. et.al (1991), Indian Agricultural Development Since Independence, Oxford & IBH, New Delhi.
4. Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
5. Government of India, Economic Survey (Annual), New Delhi.
6. Gualti, A. and T. Kelly (2001), Trade Liberalisation and Indian Agriculture Oxford University Press, New Delhi.
7. Kahlon, A.S. and Tyagi D.D. (1983), Agriculture Price policy in India, Allied publishers, New Delhi.
8. Rao, C.H. Hanumanth Rao (1975), Agricultural Growth, Rural poverty and Environmental Degradation in India, Oxford University press, New Delhi.
9. Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
10. Saini, G.R. (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied publishers, New Delhi.
11. Veeramani, A.R. (2006): Tamilaga Velaan Porolyal, Divyasre Publications, Chennai-91.
12. Reddy Subba et.al (2021): Agriculture Economics, CBS Publishers & Distributors Pvt Ltd, New Delhi
13. Reddy Subba et.al (2021), Agricultural Finance and Management, CBS Publishers & Distributors Pvt Ltd, New Delhi
14. Acharya SS & Agarwal NL (2021), Agricultural Marketing in India, CBS Publishers & Distributors Pvt Ltd, New Delhi
15. Lekhi R.K & Joginder Singh (2015), Agricultural Economics An Indian Perspective, Kalyani Publishers.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Know the Role of Agriculture in Economic Development.	✓	✓		✓	✓	
CO2	Know the Physical and Economic Optimum Point of Output.	✓	✓		✓	✓	
CO3	Analyse Agricultural Production Function using Programming Techniques.	✓	✓		✓	✓	
CO4	Estimate the Marketing Efficiency.	✓	✓		✓	✓	
CO5	Identifying the Role of Different Organizations in International Trade and the Share of Agriculture in Total Export.	✓	✓		✓	✓	

Course Title	RURAL ECONOMICS	Semester	2
Course Code	26EC02b	Credits	4
Course Category	Elective Course	Teaching Hours	5
Course Objectives	After completing this Course, the Student will be able to: 1. Grasp the Basics of Rural Economy and Rural Economic Development. 2. Understand the Role of Agriculture in Economic Development and Sustainable Growth. 3. Explain the Persistence, Nature, Causes and Possible Solutions for Rural Poverty. 4. Describe the Financial issues, Access to Credit and Indebtedness in Rural Areas. 5. Understand the Ideas of Rural Industrialization and the Vitality of the Non-Farm Sector in Rural Development. 6. Analyze the Impact of Recent International and National Developments Upon the Paradigms of Rural Economics and Rural Development.		
Unit – I	Introduction to Rural Economy		
Characteristics of Rural Economy - Resources: Land, Water, Livestock, and Common Property Resources - Demography: Rural Population Growth, age Distribution, and Rural-Urban Migration – Rural Social Infrastructure: Education, Health and Information Dissemination – Rural Transport, Communication, Extension Services, Custom Hiring Centres.			
Unit – II	Agriculture and Allied Activities		
Role of Agriculture: Contribution to Income, Employment, and Food Security - Technological Changes: Modern Farming Techniques and Equipment – Role of Livestock and Small Ruminants – Goat – Poultry – Floriculture – Horticulture – Aquaculture – Piggery.			
Unit – III	Rural Poverty And Unemployment		
Poverty: Measurement, Causes, and Consequences of Rural Poverty - Unemployment: Types of Unemployment (Seasonal, Disguised, Underemployment and Voluntary Unemployment) - Employment Schemes: Government-Backed Job Guarantees Programs Like MGNREGA – Role of NGOs.			
Unit – IV	Rural Credit and Indebtedness		
Causes of Debt: Low Farm Income, Crop Failure, and Reliance on Informal Money Lenders. Institutional Credit: Role of Commercial Banks, Regional Rural Banks, and Cooperatives. Microfinance: Importance of Micro-Credit, Self-Help Groups (SHGs), and its Federation.			
Unit – V	Rural Industrialization and Non-Farm Sector		
Rural Non-Farm Economy (RNFE): Importance, Growth Trends, Distress-Driven Vs. Demand-Driven Diversification, and Linkages with the Farm Sector. Village & Cottage Industries: Khadi and Village Industries Commission (KVIC), Handlooms, Handicrafts and Micro-Enterprises - Agro-Based Industries: Food Processing Industries and Agro-Cluster Industries.			

Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Rural Economics and Rural Development.	

References:	
1. Datt, R., & Sundharam, K. P. M. (2026). Indian Economy (74th Edition). New Delhi: S. Chand & Company Ltd. 2. Desai, V. (2018). Rural Development in India: Past, Present, and Future (2nd Edition). Mumbai: Himalaya Publishing House. 3. Kannan, K. P. (2014). Economics of Rural India. New Delhi: Oxford University Press. 4. Katar Singh, & Shishodia, A. (2019). Rural Development: Principles, Policies, and Management (4th Edition). New Delhi: SAGE Publications. 5. Puri, V. K., & Misra, S. K. (2022). Indian Economy (40th Edition). Mumbai: Himalaya Publishing House. 6. Reddy, K. V. (2012). Rural Development in India (2nd Edition). Mumbai: Himalaya Publishing House. 7. Rudra, A. (1982). Indian Agricultural Economics: Myths and Realities. New Delhi: Allied Publishers. 8. Sainath, P. (2017). Everybody Loves a Good Drought: Stories from India's Poorest Districts. New Delhi: Penguin Books. 9. Soni, R. N., & Malhotra, S. (2022). Leading Issues in Agricultural Economics (13th Edition). Jalandhar: Vishal Publishing Co. 10. Vaidyanathan, A. (2010). Agricultural Development in India: Performance and Policies. New Delhi: Oxford University Press.	

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Grasp the Basics of Rural Economy and Rural Economic Development.	✓	✓		✓	✓	
CO2	Understand the Role of Agriculture in Economic Development and Sustainable Growth.	✓	✓		✓	✓	
CO3	Explain The Persistence, Nature, Causes And Possible Solutions For Rural Poverty.	✓	✓		✓	✓	
CO4	Describe the Financial Issues, Access to Credit And Indebtedness in Rural Areas.	✓	✓		✓	✓	
CO5	Understand the Ideas of Rural Industrialization and the Vitality of the Non-Farm Sector in Rural Development.	✓	✓		✓	✓	

Course Title	TAMIL NADU ECONOMY	Semester	2
Course Code	26EXPC02	Credits	3
Course Category	Core Course	Teaching Hours	5

Course Objectives	After Completing this Course, the Student will be able to: 1. Understand the Resource Base and Demographic Characteristics of The Tamil Nadu Economy. 2. Explain the Role of Agriculture and Rural Development in the State's Economy. 3. Describe the Growth and Contribution of Industrial and Service Sectors in Tamil Nadu. 4. Understand the Role of Public Finance and Government Development Programmes. 5. Analyse the Economic Development and Current Challenges of the Tamil Nadu Economy.
--------------------------	--

Unit – I	Demographic Profile of Tamil Nadu
Geographical Features of Tamil Nadu – Natural Resources: Land, Water, Forest and Mineral Resources – Human Resources – Population Growth and Distribution – Human Development Index (HDI) – Gender Development Index (GDI) – Sustainable Resource Management.	
Unit – II	Agriculture And Rural Development
Agriculture in Tamil Nadu – Cropping Pattern and Agricultural Productivity – irrigation and Water Resource Management – Agricultural Marketing – Animal Husbandry, Dairy and Fisheries – Farmer Welfare Schemes – Public Distribution System (PDS) and Food Security.	
Unit – III	Industrial Development
Industrial Development in Tamil Nadu – Large-Scale, Small-Scale, Cottage and MSME Industries – Textile, Leather, Automobile, Electronics and Aerospace Industries – SIPCOT, SIDCO, TIIC and District Industries Centre (DIC) – Industrial Corridors – Labour Welfare and Skill Development.	
Unit – IV	Service Sector
Transport Infrastructure: Road, Rail, Air and Ports – Banking and Financial Services – Information Technology (IT) and ITES – Tourism – Healthcare and Education Services – Communication and Digital Infrastructure – Contribution of the Service Sector to the State Economy.	
Unit – V	Public Finance and Development Programmes
Tamil Nadu State Budget – Gross State Domestic Product (GSDP) – Per Capita Income – Sustainable Development Goals (SDGs) – Self-Help Groups (SHGs) – Women Empowerment Programmes – Rural Development Programmes – Health and Social Welfare Schemes – Recent Development Initiatives of the Government of Tamil Nadu.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Tamil Nadu Economy.	

References:	
1.	Department of Evaluation and Applied Research of Tamil Nadu, Tamil Nadu: An Economic Appraisal Annual Issues.
2.	Department of Statistics: Statistical Abstract of Tamil Nadu.
3.	Dreze, J., & Sen, A. (2024). An Uncertain Glory: India and its Contradictions (Reprinted Edition with Region-Specific Policy Perspectives on South India). New Delhi: Penguin Random House India. (Indian/Foreign Joint Authors)
4.	Finance Department of T.N. Govt.: Public Enterprises in Tamil Nadu.
5.	Government of India: India - A Reference Manual.
6.	Govt. of T.N. : Hand Book of Statistics Tamil Nadu.
7.	Govt. of T.N. : State Five Year Documents.
8.	Govt. of T.N. : The Perspective Plan for Tamil Nadu.
9.	Govt. of T.N. :Tamil Nadu Budget Documents.
10.	Leonard (2006), Tamil Nadu Economy”, Mac Millian, New Delhi.
11.	M I D S documents on Tamilnadu Economy.
12.	Manickam, S. (2007), Economic Development of Tamil Nadu in Perspective, Uyirmmmai Publications, Chennai.
13.	Perumalsamy, S. (1990), “Economic Development of Tamil Nadu”, S. Chand & Co. Ltd, New Delhi.
14.	Rajalakshmi, N. (1999), “Tamil Nadu Economy”, Business Publishers, Mumbai.
15.	State Planning Commission, Government of Tamil Nadu (2024). Human Development Report and Sustainable Development Goals Framework for Tamil Nadu. Chennai: SPC, Government of Tamil Nadu. (Indian/Institutional Author)
16.	Veeramani A.R. (2005), Tamil Nadu Agricultural Economy, Divyasre, Chennai.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Explain the Resource Endowment and Demographic Profile of Tamil Nadu.	✓	✓				
CO2	Describe the Structure and Performance of the Agricultural Sector and Rural Economy.		✓		✓	✓	
CO3	Analyse the Contribution of Industrial and Service Sectors to the State's Economic Development.			✓	✓		
CO4	Examine the Role of Public Finance and Major Development Programmes in Tamil Nadu.				✓	✓	
CO5	Evaluate the Economic Performance and Developmental Initiatives of the Government of Tamil Nadu.				✓	✓	

Course name	INDIAN ECONOMY	Semester	2
Course Code	26NMEC01a	Credits	2
Course Category	Non-Major Elective Course	Teaching Hours	3

Course Objectives	• To Make the Students Understand Indian Economic Development Since Independence. • To Familiarize the Features of Various Sectors of India to the Students. • To Provide a Comprehensive Knowledge about New Economic Policy – 1991. • To Analyse the Problem of Poverty and Unemployment in India and the Various Government Schemes to Reduce it. • To Analyse the Role of External Sector in the Economic Development. • To Make Students Cognizant of the Recent Developments in Indian Economy.
--------------------------	--

Unit – I	Economic Development Since Independence
Economic Development During Colonial Rule – Economic Development Since Independence – Planning: Objectives, Strategies, Failures and Achievements of Plans.	
Unit – II	Sectors Of Indian Economy
Green Revolution – Recent Developments in Indian Agriculture – Industrial Policy Resolutions – Industrial Sector and Economic Development – Infrastructure and Economics Development – Service Sector and Economic Development.	
Unit – III	Economic Reforms of 1991
New Economic Reforms of 1991 – Liberalization, Privatization and Globalization – Disinvestment – NITI Aayog.	
Unit – IV	Poverty and Unemployment
Poverty: Definition – Types – Estimates of Poverty: Various Committees – Poverty Alleviation Programmes – NFSA 2013 – (NP2020: Banerjee, Duflo, Kremer) – Unemployment: Types and Causes – Recent Schemes to Reduce Unemployment.	
Unit – V	External Sector of India
Exports – Import – Balance of Payments – Exchange Rate – Role of IMF and World Bank – WTO – Foreign Trade Policy of India – Exim Policy.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Indian Economy.	

References:

1. A V Balakrishnan, (2022, 3rd Ed., Economic Development in India (Policies, Reforms and Liberalisation), GK Publications, G.K. Publications Pvt Ltd.
2. Agrawal, A.N. (2019, 43rd Ed.) Indian Economy, New Age International Pvt.
3. Bardhan, P.K. (9th Edition) (2014), The Political Economy of Development in India, Oxford University Press, New Delhi.
4. Chetan Ghate (2018), Monetary Policy in India: A Modern Macroeconomic Perspective, Springer (India) Pvt. Ltd. Datt Ruddan and K.P.M. Sundaram (2018, 65th Ed.), Indian Economy, S. Chand & Co., New Delhi.
5. Datt & Sundharam's (2026), Indian Economy, published in its 74th updated edition in May by S. Chand Publishing, New Delhi, India.
6. Dhar, P .K, (2014, 6th Ed.) Indian Economy - its growing dimensions, Kalyani Publishers, New Delhi.
7. Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
8. Jalan, B. (2020), The Indian Economy – Problems and Prospects, Penguin India, New Delhi.
9. Jayaraj D and Subramanian S (2012): Poverty, Inequality and Population- Oxford University Press, New Delhi.
10. Mahendradev S (2010): Inclusive Growth in India- Oxford University Press, New Delhi.
11. Mishra, Puri, Garg (2022, 40th Ed.), Indian Economy, Himalaya Publishing House, New Delhi.
12. Rahul Kumar (2024), 'Indian Economic Development' Crown Publishing, Chhattisgarh. India
13. Rakesh Mohan (2018) India Transformed: 25 Years of Economic Reforms, Penguin Random House India.
14. Rakesh Mohan (2018) India Transformed: 25 Years of Economic Reforms, Penguin Random House India.
15. Ramesh Chand, Pramod Joshi (2022, 1st Ed.) Indian Agriculture Towards 2030: Pathways for Enhancing Farmers' Income, Nutritional Security and Sustainable Food and Farm Systems. Springer Verlag, Singapore.
16. Ramesh Singh, 'Indian Economy', 18th Edition (2026), McGraw Hill Education, New Delhi.
17. Reserve Bank of India, Report of Currency and Finance, (Annual).
18. Sanjay Kaul (2022, 1st Ed.), An Alternative Development Agenda for India, Taylor & Francis Ltd.
19. Shanker Acharya and Rakesh Mohan (2011): India's Economy: Performance and Challenges- Oxford University Press, New Delhi.
20. Uma Kapila (2022, 23rd Ed.), Indian Economy: Performance and Policies, Academic Foundation.
21. Uma Kapila (2022, 33rd Ed.), Indian Economy since Independence, Academic Foundation.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Gain Knowledge about the Development Strategies of India Since Independence.	✓	✓		✓	✓	
CO2	Understand the Current Position of Different Sectors in Economic Development.	✓	✓		✓	✓	
CO3	Learn Key Features of New Economic Policy of 1991.	✓	✓		✓	✓	✓
CO4	Evaluate the Programmes Implemented to Reduce Poverty and Unemployment in India.	✓	✓		✓	✓	✓
CO5	Get Knowledge on Role of External Sector in the Economic Development of a Nation.	✓	✓		✓	✓	

Course Title	INTRODUCTION TO ECONOMETRICS	Semester	2
Course Code	26NMEC01b	Credits	2
Course Category	Non-Major Elective Course	Teaching Hours	3

Course Objectives	• To Understand the Subject of Econometrics. • To Learn Standard Methods used in Empirical Analysis. • To Analyse both Techniques of Estimation Together with Methods for Testing and Evaluating Results. • To Learn the Difficulties Involved in the Estimation Process, Evaluation of Parameters and Enable Understanding Scientific Decision Making Process. • To Provide an Introduction to the Nature and Use of Empirical Investigation in Economics.
--------------------------	---

Unit – I	Definition and Scope of Econometrics
Definition, Scope of Econometrics – Relationship Between Econometrics, Mathematical Economics and Statistics – Goals and Division of Econometrics – Methodology of Econometrics.	
Unit – II	Simple Linear Regression
Correlation Theory – Simple Linear Regression Model: Ordinary Least Squares Method (OLS) – Assumptions of Linear Regression Model – Inclusion of Random Variable – Statistical Test of Significance of the Estimates – Properties of the Least Squares Estimates.	
Unit – III	Multiple Regression
Multiple Regressions – Statistical Properties of the Estimates – Test of Significance - Goodness of Fit – Adjusted R^2 – Regression and Analysis of Variance.	
Unit – IV	Auto-Correlation & Multicollinearity
Auto-Correlation, Multicollinearity and Heteroscedasticity – Causes Detection, Consequences and Remedy – Dummy Variable - Distributed Lags – Need, Limitations and Interpretation in Economics.	
Unit – V	Application of Econometrics
Econometric Applications to Consumption Function – Estimation of Elasticities – Estimation of Linear and Cobb-Douglas Production Function – Cost Function – Measurement of Technical Change.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Econometrics.	

References:
1. Damodar N. Gujarati (2025) Basic Econometrics, 7 th Edition, McGraw Hill 2. Gujarati and Porter, Basic Econometrics, Fifth Edition, McGraw Hill/Irwin, 2009. 3. Greene, William H. Econometric Analysis. 6th Edition, Prentice Hall. 2008 4. Koutsoyiannis, A "Theory of Econometrics: An Introductory Exposition of Econometric Methods", McMillan Education Ltd., 2004. 5. Suresh K. Ghose "Econometrics", Prentice Hall of India private limited, New Delhi, 2002.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	To Understand the Concepts of Econometrics.	✓	✓				
CO2	Will Able to Understand Theoretical Background for the Standard Methods used in Empirical Analysis, of OLS.		✓	✓			
CO3	Understand the Standard Method used in Empirical Analysis of Multiple Regression.			✓	✓		
CO4	Understand Estimation Issues and Their Implications Including, Biased Selection, Nonlinearity, Heteroscedasticity, Autocorrelation and Multicollinearity.				✓	✓	
CO5	Analyse Economic Data and Apply the Statistical Tools in Economic Functions for Taking Decisions in Business.					✓	✓

Syllabus & Scheme

SEMESTER - III

Sl. No	Course Code	Name of the Course	Credits	Teaching Hours	Max Marks		
					CIA	ESE	Total
1	26CC05	Monetary Economics	5	5	25	75	100
2	26CC06	Econometrics	5	5	25	75	100
3	26CO03a 26CO03b	1. International Economics 2. International Business Environment	5	5	25	75	100
4	26EC03a 26EC03b	1. Health Economics 2. Environmental Economics	4	5	25	75	100
5	26EXPC03	Research Methodology	3	5	25	75	100
6	26NMEC02a 26NMEC02b	1. Global Economy 2. Business Economics	2	3	25	75	100
7	26CP01	Project		2	--	--	--
Seminar, Library, Leveraging E- resources, VAC, etc.			--	--	--	--	--
TOTAL			24	30	150	450	600

Course Title	MONETARY ECONOMICS	Semester	3
Course Code	26CC05	Credits	5
Course Category	Core Course	Teaching Hours	5

Course Objectives	After Completing this Course, the Student will be able to: 1. Understand the Concepts, Functions and Measures of Money and Money Supply. 2. Explain the Major Theories of Demand for Money. 3. Describe the Structure and Functions of the Banking System and the Role of the Reserve Bank of India. 4. Understand the objectives, Instruments and Implementation of Monetary Policy. 5. Analyse the Role of Financial Markets and Contemporary Developments in Monetary Economics.
--------------------------	--

Unit – I	Money and Money Supply
Evolution of Money - Types of Money – Functions of Money – Measures of Money Supply – High Powered Money – Money Multiplier – Value of Money – Role of Money in the Economy - Digital Money – Payment Systems (NEFT, RTGS, IMPS and UPI).	
Unit – II	Theories of Demand for Money
Demand for Money – Classical Approach (Fisher and Cambridge) – Keynes's Liquidity Preference Theory – Friedman's Modern Quantity Theory of Money – Baumol's Inventory Approach – Tobin's Portfolio Approach – Patinkin's Real Balance Effect.	
Unit – III	Banking System
Financial System: Components – Commercial Banks: Functions and Credit Creation – Central Bank: Functions and Role – Reserve Bank of India (RBI) – Banker–Customer Relationship – Priority Sector Lending – Banking Ombudsman And Consumer Protection – Financial Inclusion.	
Unit – IV	Money and Capital Market
Money Market: Features and Instruments – Treasury Bills – Commercial Paper – Certificates of Deposit – Call Money Market – Capital Market: Meaning and Functions – Primary and Secondary Markets – SEBI and its Functions – Central Bank Digital Currency (CBDC) – Cryptocurrency: Concept, Opportunities and Challenges.	
Unit – V	Monetary Policy
Objectives of Monetary Policy – Instruments of Monetary Policy: Quantitative and Qualitative Instruments of Credit Control – Transmission Mechanism of Monetary Policy – Monetary Policy Committee (MPC) – Inflation Targeting – Role of Monetary Policy in Economic Stability – Limitations of Monetary Policy – Recent Monetary Policy Reforms in India.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Theories and Developments in Monetary Economics.	

References:

1. Cauveray et.al(2018), Monetary Economics, S.Chand
2. Cecchetti, S. G., & Schoenholtz, K. L. (2025). Money, Banking and Financial Markets (7th Edition). New York: McGraw Hill Education.
3. Chandler, V. Lester (1970), An Introduction to Theory of Money, Central Book Depot, Allahabad.
4. Crowther, Geoffrey (1958), An Outline of Money, Thomas Nelson & Sons Ltd., New York.
5. Desai, V. (2019). Financial Markets and Services (6th Edition). Mumbai: Himalaya Publishing House, Mumbai.
6. DevRaj (2017), Monetary Economics Theory and Practice, Neha Publishers & Distributors
7. Gupta, S. B. (2019). Monetary Economics: Institutions, Theory and Policy. New Delhi: S. Chand & Company.
8. Harris, L. (1985), Monetary Theory, McGraw Hill, New York.
9. Indian Institute of Banking & Finance, Central Banking, McMillan Publishers, Mumbai.
10. Johnson, H.G. Ed. (1967), Essays in Monetary Economics, Allen & Unkin, London.
11. Khan, M.Y (2013), Indian Financial System, Tata McGraw Hill Publishing Company Ltd., New Delhi.
12. Kindleberger, P. Charles (1985), Keynesianism vs Monetarism and Other Essays in Financial History, Heritage Publishers, New Delhi.
13. M.L.Jhingan(2019), Monetary Economics, Vrinda Publication, Delhi
14. Makinen, E. Gail (1978), Money, The Price Level and Interest Rates – An Introduction to Monetary Theory, Prentice Hall, New Delhi.
15. Mankiw, N. G. (2023). Macroeconomics (11th Edition). New York: Worth Publishers.
16. Mishkin, F. S. (2024). The Economics of Money, Banking, and Financial Markets (13th Edition). London: Pearson Education.
17. Misra, S. S. (1981), Money, Inflation and Economic Growth, Oxford and IBH Publishing Co., New Delhi.
18. Pathak, B. V. (2024). The Indian Financial System: Markets, Institutions and Services (6th Edition). New Delhi: Pearson India.
19. Rana, K. C., & Verma, K. N. (2017). Macroeconomic Analysis. New Delhi: Vishal Publishing Co.
20. Sahir Khan (2018), Monetary Economics, Libra Publishers, Mumbai.
21. Soarfe, B.L. (1977) Cycles, Growth and Inflation, McGraw Hill, New York.
22. Suraj B Gupta(2019), Monetary Economics Institutions, Theory and Policy, S.Chand

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Explain the Concepts of Money, Money Supply And Their Role in the Economy.	✓	✓		✓		
CO2	Apply the Theories of Demand for Money to Understand Monetary Behaviour.	✓	✓		✓		
CO3	Describe the Functions of Commercial Banks, the Reserve Bank of India and the Banking System.	✓	✓		✓		
CO4	Analyse the Objectives and Instruments of Monetary Policy and their Impact on the Economy.	✓	✓		✓	✓	
CO5	Examine the Functioning of Financial Markets and Evaluate Contemporary Developments such as Digital Banking, CBDC and Cryptocurrencies.	✓	✓		✓	✓	✓

Course Title	ECONOMETRICS	Semester	3
Course Code	26CC06	Credits	5
Course Category	Core Course	Teaching Hours	5

Course Objectives	• To Understand the Subject of Econometrics • To Learn Standard Methods used in Empirical Analysis • To Learn the Difficulties involved in the Estimation Process, Evaluation of Parameters and Enable Understanding Scientific Decision Making Process. • To Analyse both Techniques of Estimation Together with Methods for Testing and Evaluating Results. • To Provide an Introduction to the Nature and use of Empirical Investigation in Economics.
--------------------------	---

Unit – I	Definition And Scope Of Econometrics
Definition, Scope and Division of Econometrics – Methodology of Econometric Research – Correlation Theory – Simple Linear Regression Model: Ordinary Least Squares Method (OLS). Statistical Test of Significance of The Estimates – Properties of the Least Squares Estimates	
Unit – II	Multiple Regression And Extensions
Multiple Regression and other Extensions of the Simple Linear Regression Model – Regression and Analysis of Variance – First and Second Order Tests: Assumptions of Randomness, Zero Mean, Constant Variance and Normality of the Disturbance Variable (U).	
Unit – III	Auto-correlation, Heteroscedasticity & Multicollinearity
Auto-correlation, Multicollinearity and Heteroscedasticity – Causes Detection, Consequences and Remedies – Dummy Variable, Uses of Dummy Variables in Regression Analysis - Distributed Lags Model – Need, Limitations and Interpretation in Economics.	
Unit – IV	Simultaneous Equation Models
Simultaneous Equation Models: Structural and Reduced Forms – Endogenous and Exogenous Variables – Identification Problems and Conditions – Single Equation Methods of Estimation: TSLS, Indirect Least Squares and Least Variance Ratio.	
Unit – V	Application of Econometrics
Econometric Applications to Consumption Function - Estimation of Elasticities – Estimation of Linear And Cobb-Douglas Production Function – Cost Function – Measurement of Technical Change.	
Unit – Vi	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Econometrics: Theory and Practices.	

References:
1. Damodar N. Gujarati (2025) Basic Econometrics, 7th Edition, McGraw Hill 2. Greene, William H (2008). Econometric Analysis. 6th Edition, Prentice Hall. 3. Gujarati and Porter (2009), Basic Econometrics, Fifth Edition, McGraw Hill/Irwin. 4. Koutsoyiannis A (2004), "Theory of Econometrics: An Introductory Exposition of Econometric Methods", McMillan Education Ltd., 5. Suresh K.Ghose (2002). "Econometrics", Prentice Hall of India private limited, New Delhi.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Identify the Concepts of Econometrics.	✓	✓	✓			
CO2	Provide Theoretical Background for the Standard Methods Used in Empirical Analysis, Like Properties of Least Squares Estimators and the Statistical Testing of Hypothesis.		✓	✓	✓		
CO3	Understand Estimation Issues and their Implications Including, Biased Selection, Nonlinearity, Heteroscedasticity, Autocorrelation and Multicollinearity.		✓	✓	✓		
CO4	Equip with the Necessary Skills Needed for Empirical and Problem Oriented Research by Using Simultaneous Equation Models.		✓	✓	✓		
CO5	Analyse Economic Data and Apply the Statistical Tools in Economic Functions Like Consumption Function, Production Function and Cost Function.				✓	✓	✓

Course Title	INTERNATIONAL ECONOMICS	Semester	3
Course Code	26CO03a	Credits	5
Course Category	Core Choice Course	Teaching Hours	5

Course Objectives	• To Study the Theories of International Trade. • To Understand the further Developments in the Trade Theories. • To Provide a Comprehensive Knowledge on the Connection Between Trade and Economic Growth. • To Enable Students to Understand the BOP and its Disequilibrium Correction. • To Get Adequate Knowledge about Exchange Rate Systems. • To Make Students Cognizant of the Recent Developments in International Economics.
Unit – I	Theories of International Trade
	Trade as an Engine of Growth – Mercantilist Approach to Trade – Classical Theories: Absolute Cost Advantage and Comparative Cost Advantage – Modern Theory: Hecksher-Ohlin Theorem – Leontief Paradox – (NP1977: Ohlin & Meade)
Unit – II	Developments in Trade Theories
	Offer Curves – Reciprocal Demand Theory – Opportunity Cost Analysis – Factor Price Equalization Theorem – Stolper Samuelson Theorem – Vernon’s Product Cycle Theory – Leamer’s and Trefler’s Theorem – Linder’s Theory of Volume of Trade and Demand Pattern – Paul Krugman’s New Trade Theory (NP2008).
Unit – III	Theory of Commercial Policies and Terms of Trade
	Protection v/s Free Trade – Trade Restriction: Tariff and Non-Tariff Barriers – Types and Effects – New Protectionism – Export Subsidy and Countervailing Duties – Dumping and Anti-Dumping Duties – Cartels. the Effect of Growth on Trade – Terms of Trade – Types – Technical Progress and Trade – Rybczynski Theorem – Immiserising Growth – Dutch Disease – Prebisch-Singer Thesis – Myrdal’s Views.
Unit – IV	Balance of Payments
	Balance of Payments – Components – Equilibrium and Disequilibrium in BOP – Methods of Correcting BOP Deficit – Adjustment Mechanisms – Automatic, Price and Income Adjustments Elasticity Approach- Marshall-Lerner Condition- Absorption Approach- Monetary Approach – J-Curve Effect – Currency Convertibility
Unit – V	Theory of Foreign Exchange
	Exchange Rate – Nominal, Real, Effective, NEER, REER- Exchange Rate Systems – Relative Merits and Demerits of Fixed and Flexible Exchange Rates – Hybrid Exchange Rates – Purchasing Power Parity Theory – International Liquidity – IMF – World Bank
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
	Recent Developments in International Economics.

References:
1. Appleyard D. R and Field A.J. (2014) -International Economics 8 th Ed, McGraw Hill, New Delhi
2. Cherunilam, Francis (2020, 6 th Ed.): International Economics, Tata McGraw Hill, New Delhi.
3. Indian Institute of Banking & Finance (IIBF), 2025 Edition, 'International Trade Finance'. Taxmann Publications. New Delhi
4. Krugman P R and Obsfeild M (2017, 10 th Ed.) - International Economics- Theory and Policy, 8 th Ed, Pearson, Dorling Kindersley (India) Pvt. Ltd, New Delhi.
5. Mannur. H.G. (2018, 2 nd Ed.), International Economics, Vikas Publishing House Pvt. Ltd.
6. Mithani. D.M. (2021, Rev. Ed), International Economics, Himalaya Publishing House.
7. Paul R. Krugman, Maurice Obstfeld, & Marc Melitz (2023, 12th Edition) 'International Economics: Theory and Policy', Pearson Education, USA.
8. Rana and Verma (2017, 7 th Ed.): International Economics, Vishal publishing.
9. Robert C Feenstra & Alan M Taylor. (2011, 2 nd Ed.). International Economics. Worth Publishers, New York.
10. Salvatore, Dominic (2021, 13 th Ed.), Wiley India, New Delhi
11. Soderstein, B O and Geffry Reed (2006): International Economics, Palgrave Mc Milan.
12. Thomas A. Pugel & Peter H. Lindert (2000), International Economics, Irwin McGraw-Hill.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Identify the Theories of International Trade.	✓	✓		✓	✓	
CO2	Gain Knowledge about the Developments in Trade Theories.	✓	✓		✓	✓	
CO3	Analyse the Economic Effects of Various Commercial Trade Policies.	✓	✓		✓	✓	
CO4	Examine the Equilibrium and Disequilibrium in the Balance of Payments.	✓	✓		✓	✓	
CO5	Understand the Various Exchange Rate Systems.	✓	✓		✓		

Course Title	INTERNATIONAL BUSINESS ENVIRONMENT	Semester	3
Course Code	22CO03b	Credits	5
Course Category	Core Choice Course	Teaching Hours	5
Course Objectives	• To Understand the Scope and Importance of International Business. • To Gain a Knowledge on Theoretical Developments in International Trade. • To Provide a Comprehensive Knowledge on Global Trading Environment. • To Enable Students to Know About Working of Foreign Exchange Market. • To Get Adequate Knowledge about Economic Integration. • To Make Students Cognizant of the Recent Developments in International Business Environment.		

Unit – I	Introduction to International Business Environment
International Business: Nature, Importance and Scope – Mode of Entry Into International Business – Framework for Analysing International Business Environment: Economic, Political And Regulatory, Demographic, Social, Cultural and Technological Environments – Globalization of Markets, Trends in Globalization, Merits and Demerits.	
Unit – II	Theoretical Framework to International Trade
International Trade Theories: Mercantilism, Absolute Cost Theory, Comparative Cost Theory, Opportunity Cost Theory, Hecksher-Ohlin Theorem – Leontief Paradox – Complimentary Trade Theories: Stopler-Samuelson Theorem, Theories of Vernon, Paul Krugman (NP2008: Paul Krugman), Linder and Learner.	
Unit – III	Global Trading Environment and Commercial Policies
Global Trading Environment – Liberalization of World Trade – FDI and their Impact on the Economy – Multinational Companies: their Economic, Political and Legal Impact – Strategies for Dealing with MNCs - Protection v/s Free Trade – Trade Restriction: Tariff and Non-Tariff Barriers – Types and Effects – New Protectionism – Export Subsidy and Countervailing Duties – Dumping and Anti-Dumping Duties – Cartels.	
Unit – IV	Foreign Exchange Markets
Foreign Exchange Market – Functions – Participants – Stability of Foreign Exchange Markets – Spot and Forward Market – Currency Futures and Options – Swap Market – Foreign Exchange Risk; Hedging – Speculation – Stabilizing and De-Stabilizing – Currency Arbitrage – Internal and External Balance – Policy Adjustments – Expenditure Changing and Expenditure Switching Policies-Assignment Problem – Swan Diagram – Mundell-Fleming Model.	
Unit – V	International Economic Environment
Regional Integration and Trade Blocks – Types of Integration – Customs Union, European Union – Regional Groupings – Integration of Developing Countries - International Commodity Agreements – Quota Agreements – Cartels – Bi-Lateral & Multi-Lateral Contracts – Economic Institutions – International Monetary Funds (IMF) – Introduction to World Bank, GATT, WTO.	

Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in International Business Environment.	

References: 1. Appleyard D. R and Field A.J. (2014) -International Economics 8th Ed, McGraw Hill, New Delhi 2. Cherunilam, Francis (2019, 7th Ed.): International Business Environment, Himalaya Publishing House. 3. Cherunilam, Francis (2020, 6th Ed.): International Economics, Tata McGraw Hill, New Delhi. 4. Indian Institute of Banking & Finance (IIBF), 2025 Edition, 'International Trade Finance'. Taxmann Publications. New Delhi 5. Krugman P R and Obsfeild M (2017, 10th Ed.) - International Economics- Theory and Policy, 8th Ed, Pearson, Dorling Kindersley (India) Pvt. Ltd, New Delhi. 6. Mannur. H.G. (2018, 2nd Ed.), International Economics, Vikas Publishing House Pvt. Ltd. 7. Mithani. D.M. (2021, Rev. Ed), International Economics, Himalaya Publishing House. 8. Paul R. Krugman, Maurice Obstfeld, & Marc Melitz (2023, 12th Edition) 'International Economics: Theory and Policy', Pearson Education, USA. 9. Rana and Verma (2017, 7th Ed.): International Economics, Vishal publishing. 10. Robert C Feenstra & Alan M Taylor. (2011, 2nd Ed.). International Economics. Worth Publishers, New York. 11. Salvatore, Dominic (2021, 13th Ed.), International Economics, Wiley India, New Delhi. 12. Sharan (2010, 3rd Ed.), International Business: Concept, Environment and Strategy. Pearson India. 13. Soderstein, B O and Geffry Reed (2006): International Economics, Palgrave Mc Milan. 14. Sundaram and Black (2015, 1st Ed.), The International Business Environment. Pearson Education India. 15. Thomas A. Pugel & Peter H. Lindert (2000), International Economics, Irwin McGraw-Hill.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Get a Comprehensive Knowledge on Scope and Importance of International Business.	✓	✓			✓	✓
CO2	Identify the Developments in International Trade.	✓	✓		✓		
CO3	Analyse the Economic Effects of Various Commercial Trade Policies.	✓			✓		✓
CO4	Examine the Working of a Foreign Exchange Market.	✓	✓		✓		
CO5	Evaluate Problems and Prospects of Economic Integration.	✓	✓			✓	✓

Course Title	HEALTH ECONOMICS	Semester of	3
Course Code	26EC03a	Credits	4
Course Category	Elective Course	Teaching Hours	5

Course Objectives	• To Acquire Sufficient Knowledge about Fundamental Principles of Health Economics. • To Provide the Concept of Demand in Health Economics. • To Acquaint with Economic Reasoning to Resource Allocation Problems of the Health Sector. • To Provide the Awareness of Health Care Financing. • To Equip with the Health Services and the Major Components of Social Infrastructure.
--------------------------	---

Unit – I	Health Economics
Importance of Health Economics – Asymmetric Nature – Concepts, Definition and Components – the Role Economics in Health Sector – Healthcare System In India – Levels of Health Care.	
Unit – II	Demand for Supply of Health Economics
Demand for Health – Factors Influencing Demand – Demand for Medical Care as Investment – Measure Demand – Nature of Supply of Health Care Services – Protection of Health – Pricing of Health Care Services.	
Unit – III	Health Care Policy
Global Objective of Health Care Policy – Components of Health Care System- Impact of Health Services on Health- Environmental Factors and Health – Health Policy of World Health Organization (WHO) – National Health Policy (NHP) – National Rural Health Mission (NRHM) – Health Programmes In India – Policy Towards COVID–19.	
Unit – IV	Health Care Financing
Health Care Expenditure: Private and Public Expenditure on Health – Healthcare Insurance – Need of General Health Insurance – Need for Special Health Insurance for the Poor Disabled and Aged – Financing Institution in Financing Health Care.	
Unit – V	India's Health Sector
Trends in Public Expenditure on Health and Family Welfare – Health Insurance – Health Insurance Schemes – Health Insurance in India – Central and State Government Health Insurance Schemes – Social Insurance for Health Care of the Poor – Health Policy Challenges for India – Health Tourism.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Health Economics.	

References:

1. Charles E. Phelps (2025) "Health Economics" 6th Edition published by Routledge.
2. Culyr.A.J (2010), The Directory of Health Economics, Edward Elgas Publications, Holland.
3. Dhandapani C (2012) Health Issues and Challenges, Global Research Publications, New Delhi.
4. Himanshu Sekhar, Rout and Prashant Panada (2007), Health Economics in India, New Century Publications, Delhi.
5. Sundar I (2012) Health Economics and Health Care Management, Serials Publications – New Delhi – 110 002.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	To Understand the Economic Concepts of Health Care.	✓	✓				
CO2	To Understand about the Demand and Supply of Health Care Services.		✓	✓			
CO3	To Analyse the Economic Evaluation on Health Care		✓	✓			
CO4	To Gain Knowledge and to Evaluate the Health Infrastructure.				✓	✓	
CO5	To Understand the Health Sector in India.					✓	✓

Course Title	ENVIRONMENTAL ECONOMICS	Semester	2
Course Code	26EC03b	Credits	4
Course Category	Elective Course	Teaching Hours	5

Course Objectives	• To Outline the Basic Concepts in Environmental Economics. • To Familiarize the Theory of Externalities. • To Teach the Programmes Related to Environmental Studies. • To Impart Knowledge on Environmental Policies. • To Teach the Measures to Attain Environmental Sustainability. • To Motivate the Students to Study the Recent Developments in Environmental Economics.
--------------------------	---

Unit – I	Environmental Economics
Concepts of Environmental Economics – Common Property Resources – Renewable and Non-Renewable Resources – Social Efficiency, Economic Efficiency, Sustainability, Environmental Quality.	
Unit – II	Theories of Environment
Optimum Pollution – Theory of Externalities – Measurement of Externalities – Market Imperfections – Pareto Optimality and Market Failure – Common Property Rights – Coase Theorem (NP1991: Robert Coase) – Tragedy of Commons (NP2009: Elinor Ostrom).	
Unit – III	Environmental Policy
The Design and Implementation of Environmental Policy – Design of Regulatory System – Choice of Policy Instruments, Command and Control Policy, Environmental Federation, Economic Incentives – UNFCCC-Cop.	
Unit – IV	Environmental Valuation
Environmental Standards – Application of Valuation Techniques – Benefit-Cost Analysis, Methods of Measuring Environmental Quality – Contingency Valuation Method, Travel Cost Method, Hedonic Pricing Method – Trade Off Game Method.	
Unit – V	Environmental Sustainability
Variables of Ecological System – Weak Sustainability and Strong Sustainability – Measure of Sustainability – Eco-Friendly Technology – Case of Agricultural System – Pricing Natural Resources – Environmental Management – Climate Change: Measures and its Impact.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Environmental Economics,	

References:
1. Baumol, W.J. & Oates, W.E. (1997), The Theory of Environmental Policy, Prentice Hall, Englewood-cliffs 3
2. Bhattacharya, R N (2001) ‘Environmental Economics: An Indian Perspective’, Oxford
3. Charles D. Kolstad and Noelwah Netusil.(3rd Edition, March 2026), Environmental Economics, Oxford University Press, E-book ISBN: 9780190674076, Print ISBN: 9780190674106
4. Charles Kolstad (2010), Intermediate Environmental Economics, Oxford University Press, 2nd edition.
5. Dodo J. Thampapillai and Matthias Ruth.(4th Edition, November 2024), Environmental Economics: Concepts, Methods and Policies,Taylor & Francis, ISBN 1040226507, 9781040226506
6. Eban S. Goodstein, Jason C. Wong, and Stephen Polasky.(10th Edition, April 2025), Economics and the Environment, John Wiley & Sons, ISBN 1394307950,
7. Field, Barry & Field, Martha (2016), Environmental Economics: An Introduction, McGraw-Hill Education, New York.
8. Hanley, Nick; Shogren, Jason & White, Ben (2004), Environmental Economics in Theory and Practice, McMillan India Limited, Delhi
9. Hussen, Ahmed (2004) ‘Principles of Environmental Economics’ , 2nd ed., Routledge
10. Managi, Shunsuke&Kuriyama, Koichi (2017), Environmental Economics, Routledge, London and New York.
11. Robert N. Stavins (2005), Economics of the Environment: Selected Readings, W.W. Norton, 5th edition,).
12. Roger Perman, Yue Ma, James McGilvray and Michael (2003), Common, Natural Resource and Environmental Economics, Pearson Education/Addison Wesley, 3rd edition.
13. Singh, Katar&Shishodia, Anil (2010), Environmental Economics: Theory and Applications, Sage Publications, New Delhi
14. Smith, Stephen (2011), Environmental Economics: A Very Short Introduction, Oxford University Press, New York
15. Thomas, Janet M and Callan, Scott J (2007) ‘Environmental Economics’, Thomson South Western, India ed.
16. Ulaganathan, Sankar (2006), Environmental Economics, OUP, New Delhi

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Identify the Concepts of Environmental Economics.	✓	✓				
CO2	Evaluate the Market Imperfections and Measure the Externalities.		✓		✓	✓	
CO3	Design Environmental Policies to Protect the Economy.		✓		✓	✓	✓
CO4	Apply the Methods to Evaluate Environmental Quality.		✓	✓	✓	✓	
CO5	Suggest the Ways to Achieve Environmental Sustainability.		✓		✓	✓	✓

Course Title	RESEARCH METHODOLOGY	Semester	3
Course Code	26EXPC03	Credits	3
Course Category	Experimental Course	Teaching Hours	5

Course Objectives	• To Understand the Objectives of Research and its Types. • To Study the Different Research Methods and Sampling Designs. • To Understand the Criteria for Research Design. • To Identify the Methods of Data Collection and Data Processing. • To Analyse the Report Writing and its Components.
--------------------------	---

Unit – I	Objective and Scientific Research
Science – Characteristics – Meaning of ‘Research’ – Specific Features of Research in Social Sciences – Objectivity in Research – Basic Categories in Scientific Method – Facts – Concepts – Causality – Uncertainty – Ethical Issues of Social Science.	
Unit – II	Research Methods and Sample Designs
Methods of Research – Deductive and Inductive Reasoning – Steps of Scientific Method – Historical Method – Case Study – Qualitative Research Techniques – Ethno Methodology – Reflective and Evaluative Research – Sample Surveys – Various Sampling Methods - Importance of Proper Sampling Design – Sampling and Non-Sampling Errors	
Unit – III	Criteria for Research Design
Steps in Research – Formulation of a Research Problem – Guiding Principles in the Choice of a Research Topic – Role of Survey of Literature – Formulation of Research Design – Model Building – Hypothesis: Definition, Concept, Formulation and Testing.	
Unit – IV	Techniques of Data Collection & Processing
Data Collection Tools: Observation, Schedule, Questionnaire, Projective Techniques – Scaling Techniques - Primary and Secondary Data – Principles Underlying Construction of a Questionnaire – Preparation of Master Table – Types of Table – Parts of a Table – Rules of Tabulation – Data Processing – Computer Programmes Excel, SPSS – Analytical Tables.	
Unit – V	Report Writing
Report Writing – Drafting of Report – Structure and General Format – Style – Use of Footnotes – Citations – Presentation of Tables, Diagrams, Charts and Maps – Bibliography – Harvard Referencing – Citation Index – Plagiarism.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Research Methodology.	

References:
1. Ghosh B.N. – Scientific Method and Social Research, Sterling Publishers, New Delhi, 1982. 2. Gupta, S.P. (2021), Statistical Methods, Sultan Chand, New Delhi.ISSN: 93-5161-176-9 3. Kothari C R and Gaurav Garg (5th Edition, 2025), “Research Methodology (Methods & Techniques)”, Wiley Eastern Ltd, New Delhi. 4. Ranjit Kumar (4th Edition, 2024), Research Methodology, SAGE Publications Pvt. Ltd., New Delhi 5. Ranjit Singh (2026 Edition), 'Research Methodology'. RT Publications, Chandigarh (Punjab) 6. Singh S (2015), "Research Methodology In Social Sciences", Himalaya Pub.House,New Delhi.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understand the Different Types of Research.	✓	✓		✓		
CO2	Get Knowledge about the Sampling Methods.	✓	✓		✓		
CO3	Understand the Formulation of Research Problem.	✓	✓		✓		
CO4	Aware the Methods of Data Collection and its Processing.	✓	✓	✓	✓		
CO5	Understand the Report Writing and its Components.	✓		✓	✓		

Course Title	GLOBAL ECONOMY	Semester	3
Course Code	26NMEC02a	Credits	2
Course Category	Non-Major Elective Course	Teaching Hours	3

Course Objectives	• To Make Students know about the Evolution of Globalization. • To Help Students know the Concept of Modern Globalization. • To Make Students aware about Financial Globalization. • To Analyse the Impact of Globalization. • To Understand some other Concerns about Globalization. • To Make Students Cognizant of the Recent Developments in Globalization.
--------------------------	--

Unit – I	Evolution of Globalization
Globalization: Concept and Definition – Views – Phases of Globalization: Globalization 1.0 – Globalization 2.0 – Globalization 3.0 – Movement Towards Globalization 4.0.	
Unit – II	Modern Globalization
Modern Globalization – Features – Process – Dimensions – Advantages – Disadvantages – Measurements – Globalization and Economic Development.	
Unit – III	Financial Globalization
Capital Movements – FDI and Foreign Portfolio Investments – Foreign Investments, MNCs/TNCs and Economic Development.	
Unit – IV	Impact of Globalization in India
Impact of Globalisation: Sector Wise Impacts – Political, Social and Cultural Manifestations Of Globalization – Global Financial Crisis (NP2022: Bernanke, Diamond, Dybvig).	
Unit – V	Globalization and Some Other Concerns
Democracy and Globalization – Models of Governance – the Ethics of Globalization – Global Public Goods – Un Report on Three Mega - Trends	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Globalization.	

References:	
1.	Anthea Roberts, Nicolas Lamp (2021) ,Six Faces of Globalization Who Wins, Who Loses, and Why It Matters. Harvard University Press.
2.	Barry Eichengreen, ‘Globalizing Capital: A History of the International Monetary System’, 2nd ed., Princeton University Press, Princeton and Oxford, 2008.
3.	Baylis et al (2018), Globalization Of World Politics, Oxford University Press.
4.	Bhagawathi Jagadish (2004) In Defence of Globalisation, Oxford University Press New Delhi.
5.	Clayton, Thomas. (2004). ‘Competing Conceptions of Globalization’ Revisited: Relocating the Tension between World-Systems Analysis and Globalization Analysis. In: Comparative Education Review, vol.48, no. 3
6.	David Held and Anthony McGrew, ‘Globalization/Anti-globalization: Beyond the Great Divide’, 2nd ed., Polity Press, 2007, chaps. 10-11, pp. 185-219.
7.	Edward E. Leamer, - ‘A Flat World, A Level Playing Field, a Small World After All, or None of the Above?’, Journal of Economic Literature, March 2007, 83-126.
8.	Goldin Ian and Kenneth Reinert (2007, Rev. Ed.), ‘Globalisation for Development’, World Bank and Palgrave Macmillan, Washington DC
9.	Michael W. Weinstein, ed., ‘Globalization: What’s New’, Columbia University Press, New York, 2005.
10.	Peter Singer, ‘One World: The Ethics of Globalization’, 2nd ed., Yale University Press, New Haven and London, 2002.
11.	Sullivan Daniel et.al (2016). Globalization and Business, Prentice Hall India Learning Private Limited.
12.	Stiglitz Joseph. E (2017), ‘Globalization and Its Discontents Revisited’ - W.W. Norton and company New York.
13.	Thomas L. Friedman (2021), ‘The World is Flat: A Brief History of the Twenty-first Century’, Douglas and McIntyre (2013) Limited.
14.	Wild and Wild (2019, 9 th Ed.), International Business: The Challenges of Globalization (What's New in Management), Pearson
15.	M.K. Agarwal (2025 edition) 'Global Economy' Sultan Chand & Sons, New Delhi.
16.	David Dieterle (2026), 'The Global Economy', Bloomsbury Academic, ISBN-13: 979-8765138984. New Delhi

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Gain Knowledge About the Evolution of Globalization.	✓	✓		✓		
CO2	Understand the Concepts of Globalization.	✓	✓		✓	✓	
CO3	Learn Key Features of Financial Globalization.	✓	✓		✓		✓
CO4	Evaluate the Impact of Globalization.	✓	✓		✓	✓	✓
CO5	Get Knowledge on Some Other Current Concerns about Globalization.	✓	✓			✓	

Course Title	BUSINESS ECONOMICS	Semester	3
Course Code	26NMEC02b	Credits	2
Course Category	Non-Major Elective Course	Teaching Hours	3

Course Objectives	• To Provide a Foundation of Economic Concepts for other Business Streams. • To Provide the Concepts and Tools of Demand Analysis. • To Provide the Concepts and Tools of Production and Cost Analyses. • To Provide the Economic Tools as Relevant for Managerial Decision Making. • To Provide an Understanding of the Aggregate Economic System within Which a Firm Operates.
--------------------------	--

Unit – I	General Foundations of Business Economics
Nature and Scope of Business Economics – Fundamental Concepts – Micro And Macro Environments, basic Technique of Managerial Decision-Making – Application of Economic Theories in Decision Making.	
Unit – II	Demand Analysis and Estimation
Utility Analysis and the Demand Curve – Equilibrium of the Consumer, Indifference Curve, Meaning and Determinants of Demand – Types of Demand – Elasticity of Demand - Individual, Market and Firm Demand.	
Unit – III	Production and Cost Analysis
Production Function – Laws of Production – Economies and Diseconomies of Scale – Laws of Returns – Various Concepts of Cost – Capital Budgeting– Application of Marginal Costing in Business Decisions - Break Even Analysis.	
Unit – IV	Pricing Under Different Market Structures
Determination – Price Determination under Different Market Structures – Pricing Policies and Practices – Unit Cost Realization – Market Intelligence.	
Unit – V	Resource Opportunities
Institutional Financing - State Finance Co-operations – Venture Capital – Angel Investors – Atal Innovation Mission (AIM) – Start-up India – Start-up – TN - Entrepreneurship Development Institute of India (EDII) – TANSEED – MUDRA.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Business Economics.	

References:
1. Chaturvedi D.D, S.L. Gupta, Sumitra Pal, Business Economics, 2001.
2. D.N. Dwiwedi, Micro Economics Theory and Applications, Pearson publication, 2003.
3. Dominick Salvatore, Micro Economics, Fourth Edition, 2003.
4. H. L. Ahuja, Business Economics, S. Chand Publication, 2009..
5. John Sloman & Elizabeth Jones (2024) “Essential Economics for Business” 5 th Edition, Pearson publication
6. K.K. Dewett, M.H. Navalur, Modern Economic Theory, S. Chand publication, 2015.
7. Yogesh, Maheswari, Management Economics, PHI learning, New Delhi, 2012.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understand Managerial Decision Making.	✓	✓				
CO2	Analyse the Demand and Demand Forecasting.		✓	✓			
CO3	Analyse Production and Cost.			✓	✓		
CO4	Gain Knowledge and Evaluate the Price Determination.				✓		
CO5	Understand the Macro Economic Variables of Indian Economy.					✓	✓

Syllabus & Scheme

SEMESTER - IV

Sl. No	Course Code	Name of the Course	Credits	Teaching Hours	Max Marks		
					CIA	ESE	Total
1	26CC07	Labour Economics	5	6	25	75	100
2	26CC08	Public Economics	5	6	25	75	100
3	26EIBC01	Entrepreneurial Development	5	6	25	75	100
4	26CP01	Project	5	12	20	80	100
Seminar, Library, Leveraging E- resources, VAC, etc.			--	--	--	--	--
TOTAL			20	30	95	305	400

Course Title	LABOUR ECONOMICS	Semester	4
Course Code	26CC07	Credits	5
Course Category	Core Course	Teaching Hours	6

Course Objectives	After Completing this Course, the Student will be able to: 1. Understand the Nature, Scope and Importance of Labour Economics and the Labour Market. 2. Explain Employment Trends and Theories of Wage Determination. 3. Describe Labour Mobility, Migration and Human Resource Development. 4. Understand Industrial Relations, Labour Welfare and Social Security Measures. 5. Analyse Labour Market Reforms and Emerging Issues in the Indian Labour Market.
--------------------------	--

Unit – I	Labour Economics
Nature and Scope of Labour Economics – Characteristics and Importance of Labour – Labour as a Factor of Production – Indian Labour Market: Features and Structure – Labour Force Participation Rate (LFPR), Worker Population Ratio (WPR) and Unemployment Rate – International Labour Organization (ILO) and its Functions.	
Unit – II	Employment and Theories of Wage
Employment and Unemployment – Types and Causes of Unemployment – Employment in India - Wage Determination: Marginal Productivity Theory, Collective Bargaining Theory and Modern Theory of Wages – Minimum Wage, Fair Wage and Living Wage – Wage Policy In India – Gig and Platform Economy.	
Unit – III	Labour Mobility and Human Resource Development
Labour Mobility: Types – Rural–Urban and International Migration – Causes and Effects of Labour Migration – Labour Turnover – Absenteeism: Causes, Effects and Control Measures – Human Capital Formation – Skill Development and Employability.	
Unit – IV	Industrial Relations and Labour Welfare
Industrial Relations: Importance – Trade Unions: Growth, Structure and Functions – Collective Bargaining – Industrial Disputes: Causes and Settlement Mechanisms – Labour Welfare Measures – Social Security Schemes in India – Labour Codes in India.	
Unit – V	Labour Market Reforms
Labour Market Reforms in India – Contract Labour – Child Labour – Women Workers and Gender Issues in the Workplace – Informal Sector and Unorganised Labour – Occupational Safety and Health – Future of Work: Automation, Artificial Intelligence and Digital Labour Markets.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Theories and Trends in Labour Economics.	

References:	
1.	Borjas, G. J. (2025). Labor Economics (9th Edition). New York: McGraw Hill Education
2.	Campbell McConnell, Stanley Brue, David Macpherson (2021), Contemporary Labor Economics, 12th Edition, McGraw-Hill, New York.
3.	Datt, G (1996), Bargaining Power, Wages and Employment: An Analysis of Agricultural, Labour: Markets in India: Sage Publications, New Delhi
4.	David Lam and Ahmed Elsayed (2021), Labour Markets in Low-Income Countries: Challenges and Opportunities, Oxford University Press.
5.	Dr. Chandra Kant Singh (2019), Labour Economics, Deshraj & Sons.
6.	Ehrenberg, R. G., & Smith, R. S. (2024). Modern Labor Economics: Theory and Public Policy (14th Edition). New York: Routledge.
7.	H L Ahuja(2016), Development Economics,S Chand Publishing, India.
8.	Hajela, P.D. (1998), Labour Restructuring in India: A Critique of the New Economic Policies, Commonwealth Publishers, New Delhi.
9.	Jhabvala, R. and R.K. Subrahmanya (Eds) (2000), The Unorganised Sector: Work Security and Social Protection: Sage Publications, New Delhi.
10.	Lester, R.A. (1964), Economics of Labour (2 nd Edition), McMillan, New Work.
11.	McConnell, C. R., Brue, S. L., & Macpherson, D. A. (2021). Contemporary Labor Economics (12th Edition). New York: McGraw-Hill Education.
12.	Papola, T.S.P.P. Ghosh and A.N. Sharma (Eds)(1993). Labour, Employment and Industrial Relations in India, B.R. Publishing Corporation, New Delhi.
13.	Rosenberg M.R. (1988), Labour Markets in Low Income Countries in Chenery
14.	S. Chakraborty (2018), Labour Economics,Himalaya Publishing House Pvt. Ltd.
15.	S.C. Srivastava (2022), Industrial Relations and Labour Laws 8th edition, S Chand And Company Ltd .
16.	Sharma, A. N., & Kapoor, R. (2024). Labour and Employment in India: Emerging Trends and Future of Work. New Delhi: Oxford University Press.
17.	T.N.Srinivasan (Eds) The Handbook of Development Economics North Holland, New York.
18.	Venkata Ratnam, C.S.(2001), Globalization and Labour- Management Relations: Dynamics of Changes, Sage Publications/Response Books, New Delhi.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Explain the Concepts and Characteristics of Labour Economics and the Indian Labour Market.	✓	✓		✓		
CO2	Apply Wage Theories to Understand Employment and Wage Determination.	✓	✓		✓		
CO3	Analyse Labour Mobility, Migration and Skill Development in the Labour Market.	✓	✓		✓		
CO4	Examine Industrial Relations, Trade Unions and Labour Welfare Measures in India.	✓	✓		✓		
CO5	Evaluate Labour Market Reforms and Contemporary Challenges such as the Gig Economy, Informal Employment and Technological Change.	✓	✓		✓		

Course Title	PUBLIC ECONOMICS	Semester	4
Course Code	26CC07	Credits	5
Course Category	Core Course	Teaching Hours	6

Course Objectives	After Completing this Course, the Student will be able to: • Understand the Concepts and Scope of Public Economics and the Role of Government in the Economy. • Explain the Principles of Public Revenue and Taxation. • Describe the Nature and Importance of Public Expenditure and Public Debt. • Understand the Structure of Government Budgets and Fiscal Policy. • Analyse Fiscal Federalism and Contemporary Public Finance Issues in India.
--------------------------	--

Unit – I	Public Economics
Nature and Scope of Public Economics – Role of Government in a Mixed Economy – Public Sector and Private Sector – Market Failure – Externalities - Public Goods, Private Goods and Merit Goods — Functions of Government: Allocation, Distribution and Stabilisation – Principles of Public Finance.	
Unit – II	Public Revenue and Taxation
Sources of Public Revenue – Taxation: Objectives and Principles – Classification of Taxes: Direct and Indirect Taxes – Canons of Taxation – Incidence and Shifting of Taxation – Goods and Services Tax (GST) – Tax Reforms In India Since 1991.	
Unit – III	Public Expenditure
Classification of Public Expenditure – Wagner's Law of Increasing State Activities – Wiseman–Peacock Hypothesis – Causes for Growth of Public Expenditure – Effects of Public Expenditure – Public Investment – Cost–Benefit Analysis	
Unit – IV	Public Debt and Budgeting
Sources of Public Debt – Internal and External Debt – Burden of Public Debt – Debt Management – Government Budget: Components – Budget Deficit: Revenue, Fiscal and Primary Deficits – Fiscal Responsibility and Budget Management (FRBM) Act – Performance and Zero-based Budgeting.	
Unit – V	Fiscal Policy and Fiscal Federalism
Objectives and Instruments of Fiscal Policy – Fiscal Policy for Economic Development and Stability – Fiscal Federalism in India – NITI Aayog – Union, State and Local Government Finances – Intergovernmental Fiscal Transfers – Contemporary Fiscal Challenges in India.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Theories And Policies in Public Economics.	

References:	
1.	Bhargava (2004): Public Finance, Its Theory and Working in India, Chaitanya Publishing House.
2.	Musgrave, R.A. (1959) : The Theory of Public Finance, McGraw Hill, Kogakhusa, Tokyo.
3.	Musgrave, R.A. and P.B. Musgrave (1976) : Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
4.	Atkinson, A. B., & Stiglitz, J. E. (2015). Lectures on Public Economics (Updated Edition). Princeton, NJ: Princeton University Press.
5.	Auerbach, A.J. and M. Feldstern (Eds.) (1985): Handbook of Public Economics, Vol.I, North Holland, Amsterdam.
6.	Buchanan, J.M. (1970) : The Public Finances, Richard D. Irwin, Homewood.
7.	Goode. R (1986) : Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
8.	Houghton,J.M. (1970) : The Public Finance : Selected Readings, Penguin, Harmondsworth.
9.	Shoup, C.S. (1970) :Public Finance, Aldine, Chicago.
10.	Shome, P. (ED.) (1995) : Tax Policy : Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.
11.	Om Prakash (2012); Public Economics: Theory and Practice: Vishal Publication : Vishal Publication.
12.	Bhatia. H.L (2018); Public Finance: Vikas Publication.
13.	Jain. N.K (2018); Public Economics, Sanjeev Prakashan.
14.	Cauvery, R., Sudhanayak, U. K., Girija, M., & Kruparani, R. (2010). Public Finance (Fiscal Policy). New Delhi: S. Chand & Company.
15.	Sury M.M (2020); Public Economics: New Century Publication.
16.	Janak Raj Gupta (2021); Public Economics in India: Theory and Practice: Atlantic.
17.	Gruber, J. (2024). Public Finance and Public Policy (7th Edition). New York: Worth Publishers. (Foreign Author)
18.	Stiglitz, J. E., & Rosengard, J. K. (2025). Economics of the Public Sector (5th Edition). New York: W. W. Norton & Company. (Foreign Author)
19.	Reddy, Y. V., Reddy, G. R., & Chakraborty, P. (2026). Indian Fiscal Federalism (Revised & Updated Edition). New Delhi: Oxford University Press. (Indian Authors)

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Explain the Role of Government and the Basic Concepts of Public Economics.	✓	✓		✓		
CO2	Describe the Principles and Structure of Taxation and Public Revenue.	✓	✓		✓		
CO3	Analyse Public Expenditure, Public Debt and Government Budgeting.	✓	✓		✓		
CO4	Examine the Objectives and Instruments of Fiscal Policy in India.	✓	✓		✓		
CO5	Evaluate Fiscal Federalism and Major Public Finance Issues in the Indian Economy.	✓	✓		✓	✓	

Course Title	ENTREPRENEURIAL DEVELOPMENT	Semester	4
Course Code	26EIBC01	Credits	5
Course Category	Entrepreneurship/Industry Based Course	Teaching Hours	6

Course Objectives	• To Understand the Requisites of a Successful Entrepreneur. • To Analyse the Factors that Shapes Entrepreneurial Environment. • To Identify and Appraisal a Feasible Project. • To Examine the Role and Functions of Lending Institutions and Support Institutions for Entrepreneur. • To Discuss about Government Policy and Industrial Sickness in Small Scale Enterprises.
--------------------------	--

Unit – I	Entrepreneur
Evolution of the Concept of Entrepreneur – Characteristics – Types – Functions – Traits and Mindset – Need for Entrepreneurs – Difference Between Entrepreneur and Intrapreneur – Factors Influencing Entrepreneurial Growth – India’s Start-up Revolution – Rural, Social and Women Entrepreneurs in India.	
Unit – II	Entrepreneurship and Entrepreneurial Development
Entrepreneurship – Need – Process Involved in Entrepreneurial Development – Myths, Advantages and Disadvantages of Entrepreneurship – Development of Entrepreneurial Competencies – Entrepreneurship Development Programmes (EDPs): Need, Objectives, Phases of EDP – Entrepreneurship Development Training – Central and State Government Industrial Policies on Entrepreneurial Development.	
Unit – III	Project Identification and Business Model
Project Identification and Selection – Project Formulation – Significance, Contents and Formulation of a Project Report – Project Appraisal – Methods of Project Appraisal – Commercialization.	
Unit – IV	Sources of Finance
Institutional Finance – Term Lending Institutions – Commercial Banks – State Finance Corporations – TIIC – Technical Support – Small Industries Development Bank of India (SIDBI), Small Industries Service Institute (SISI), District Industries Centre (DIC), SIDCO.	
Unit – V	Institutions for Promotion of Entrepreneurial Development
Entrepreneurial Development: EDII, NSTEDB, NIESBUD, IED, TIIC, ICICI, MSME-DFOS, RSETI and KVIC	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Industrial Sector.	

References: 1. Prasanna Chandra (2002), Project Planning, Analysis, Selection Implementation & Review, Tata Mc Graw Publications. 2. Robert D. Hisrich, Mathew J Manimala, Michael P Peters, Dean A Shepherd (2018) “Entrepreneurship”, 10e, McGraw Hill Education. 3. S.S.Khanka (2021), Creativity and Innovation in Entrepreneurship, S.Chand and Company Limited, New Delhi. 4. S.S.Khanka (2025), Entrepreneurial Development, 5th Edition, S.Chand and Company Limited, New Delhi,

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Acquire the Knowledge and Skills Required for an Entrepreneur.	✓	✓				
CO2	Assess the Various Factors that Exist in Entrepreneurial Environment.	✓	✓				
CO3	Evaluate and Organize a Good Project.		✓		✓		✓
CO4	Describe the Role and Functions of Institutional Finance And Institutional Support.				✓	✓	
CO5	Monitor the Government Policy and Curb Industrial Sickness.				✓	✓	

Syllabus & Scheme

EXTRA-CREDIT COURSES

Sl. No	Course Code	Name of the Course	Year	Credits	Teaching Hours	Max Marks		
						CIA	ESE	Total
1	26VAC1	Microsoft Office Essentials for Social Sciences	I	2	30	25	75	100
2	26VAC2	Basic Application of SPSS in Research	II	2	30	25	75	100
3	26ONC01	Economic Thought (Department Online Course)	I/II	2	-	-	-	-
4	26FPI01	Field Project/Internship	I	-	-	-	-	-
5	26FPI02	Field Project/Internship	II	-	-	-	-	-
TOTAL				6	60	50	150	200

Course Title	MICROSOFT OFFICE ESSENTIALS FOR SOCIAL SCIENCES	Year	1
Course Code	26VAC1	Credits	2
Course Category	Value Added Course	Teaching Hours	30

Course Objectives	• To Understand the basics of MS Word and its Application in Documentation • To Have a Comprehensive Knowledge on MS Power Point. • To Familiarize the Uses of MS Excel in Social Sciences. • To Familiarize the Student about Data Representation in MS Excel. • To Make Students able to use Function Library for Data Analysis.
--------------------------	--

Unit – I	Microsoft Word
MS Word – Word Basic Tool Bars – Overview of Word Menu Options – Working with Ribbon, Tabs, Groups and Buttons – Creating a New Document – Editing the Document – Inserting a Table, Graph, Image and Video – Inserting Header, Footer and Page Number – Inserting Equations (Equation Editor) – Inserting, Activating and Deactivating a Hyperlink.	
Unit – II	Microsoft Power Point
Introduction – Creating a New Presentation – Using Auto Content Wizard, Using Blank Presentation Option and Design Template – Adding, Deleting and Duplicating Slides – Inserting Images, Videos, Graphs – Transition/ Animation Effects – Slide Show.	
Unit – III	Microsoft Excel : Introduction
Features – Uses – Worksheets – Workbooks – Cell – Range – Cell Reference – Excel Environment – Excel Toolbars – Insertion of Rows and Columns – Entering and Editing Data.	
Unit – IV	Microsoft Excel : Data Representation
Data – Auto Fill – Sort – Filter – Creation of Charts and Graphs – Formula Syntax – Entering and Editing Formula – Auto sum.	
Unit – V	Microsoft Excel : Operations and Formulas
Insert Functions – Function Library – Mathematical, Statistical and Financial (Basic) – Descriptive Statistics.	

References:	
1.	Excel 2019, Greg Harvey, For Dummie; 1st edition (4 December 2018), Wiley Publishing, Inc.
2.	Joan Lambert and Curtis Frye, Microsoft Office 365 for Beginners, Microsoft Press, 29 April 2022, ISBN-13 : 978-0137544844

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Understand basics of MS Word.	✓	✓	✓	✓	✓	
CO2	Understand basics of MS Power Point.	✓	✓	✓	✓	✓	
CO3	Get the uses of MS Excel.	✓	✓	✓	✓	✓	
CO4	Understand Representation of Data in MS Excel.	✓	✓	✓	✓	✓	
CO5	Get knowledge on Various Operations and Formulas in MS Excel.	✓	✓	✓	✓	✓	

Course Title	BASIC APPLICATION OF SPSS IN RESEARCH	Year	2
Course Code	26VAC2	Credits	2
Course Category	Value Added Course	Teaching Hours	30

Course Objectives	• To Understand the SPSS. • To Aware the Data Processing By SPSS. • To Analysing Complex Information with the Help of Statistical Tools. • To Analyse the Theoretical and Empirical Foundation in Statistical Analysis. • To Study the Multivariate Analysis.
--------------------------	---

Unit – I	Introduction to SPSS
Introduction to SPSS – SPSS Environment: Data Editor, Output Viewer, Syntax Editor – Data View Window– SPSS Syntax – Data Creation – Importing Data – Variable Types in SPSS and Defining Variables – Creating a Codebook in SPSS.	
Unit – II	Working with Data Computing Variables
Working with Data Computing Variables – Sorting Data - Grouping or Splitting Data.	
Unit – III	Exploring Data
Exploring Data – Descriptive Statistics for Continuous Variables – Explore Procedure – Frequencies Procedure – Descriptive – Compare Means – Frequencies for Categorical Data.	
Unit – IV	Analysing Data
Analysing Data – Inferential Statistics for Association: Pearson Correlation, Chi-Square Test of Independence – Inferential Statistics for Comparing Means: One Sample T Test, Paired Samples T Test, Independent Samples T Test, One-Way ANOVA.	
Unit – V	Multivariate Analysis
Factor Analysis – Cluster Analysis.	

References
1. Discovering Statistics Using IBM SPSS Statistics, 6th Edition (February 2024), SAGE Publications, ISBN-13: 978-1529630008
2. Field A., Discovering Statistics Using SPSS, Fourth Edition, SAGE, 2013
3. HOW TO USE SPSS ® A Step-By-Step Guide to Analysis and Interpretation, Brian C. Cronk, Tenth edition published in 2018 by Routledge.
4. IBM 2016, IBM Knowledge Centre: SPSS Statistics, IBM, viewed 18 May 2016, https://www.ibm.com/support/knowledgecenter/SSLVMB/welcome/
5. IBM SPSS for Introductory Statistics: Use and Interpretation, Edition: 7th Edition (September 2025), Publisher: Routledge ISBN-13: 978-1032410302
6. IBM SPSS Statistics 29 Step by Step: A Simple Guide and Reference, 18th Edition (March 2024), Routledge Publisher, ISBN-13: 978-1032621937
7. SPSS for Intermediate Statistics: Use and Interpretation, Nancy L. Leech et al., Second edition published in 2005 by Lawrence Erlbaum Associates, Inc.
8. Using IBM SPSS Statistics for Research Methods and Social Science Statistics, William E. Wagner, Fifth Edition Published in 2015 by SAGE Publications, Inc. Criteria for Getting the C.

Course Outcomes							
On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Students' Familiarity with the Tool Box of Statistical Software.	✓	✓	✓	✓		
CO2	Capacitating Students in Analysing Complex Information with the Help of Statistical	✓		✓	✓	✓	
CO3	Software – Statistical Package for Social Sciences (SPSS).	✓		✓	✓	✓	
CO4	A Strong Theoretical and Empirical Foundation in Statistical Analysis	✓	✓	✓	✓		
CO5	To Apply the Multivariate Analysis in Research	✓		✓	✓		

Course Title	ECONOMIC THOUGHT	Year	1/2
Course Code	26ONC01	Credits	2
Course Category	Departmental Online Course	Teaching Hours	-

Course Objectives	Make The Students • Get the Ideas of Mercantilism and Physio-Crates. • Understand the Classical Economic Thoughts. • Learn Neo Classical Economic Thoughts. • Articulate Keynesian Economic Thoughts. • Recall Indian Economic Thoughts. • Compile the Recent Developments in Economic Thoughts.
--------------------------	--

Unit – I	Early Economic Thought
Economic Thought of Plato - the Ideal State; Aristotle – Private Property; Kautilya’s Views – Public Finance and Welfare State – Thiruvalluvar – Poverty and Public Finance – Mercantilism – Role of The State, Money, Physiocrats – Laissez-Faire, Natural Order.	
Unit – II	Classical School
Adam Smith – Division of Labour and Role of Government; Thomas Robert Malthus – Theory of Population; David Ricardo; Rent Theory, Theory of Comparative Cost ; J.B. Say – Productive and Unproductive Labour , Law of Markets, Karl Marx-Class Struggle and Surplus Value.	
Unit – III	Neo-Classical School
Marginalism: Alfred Marshall – Marginal Utility Analysis; Gary S.Becker – Human Capital Model; Schumpeter – Theory of Development, Institutional School: Veblen’s Conspicuous Consumption; Gunnar Myrdal – Growth Model; Information Economics – Ronald Coase.	
Unit – IV	Keynesian School
J.M.Keynes: Aggregate Economy – Consumption Function – Marginal Efficiency Of Capital and Marginal Efficiency of Investment – Underemployment Equilibrium - Multiplier Principle – Pareto: Pareto Optimality – J.R.Hicks – Consumers Surplus.	
Unit – V	Indian Economic Thought
Dadabhai Naoroji – Drain Theory; M K Gandhi – Swadeshi, and Cottage Industries; J. Nehru – Early Approaches to Planning; B R Ambedkar – Problem of the Rupee - V.K.R.V.Rao – National Income Methodology; Indira Gandhi – 20-Point Programme; Amartya Sen – Theory of Human Well-Being.	
Unit – VI	Current Contours (For Continuous Internal Assessment Only):
Recent Developments in Economic Thoughts.	

References:

1. Biswanath Ghosh and Rama Ghosh (2023), Concise History of Economic Thought, Himalaya Publishing House, New Delhi

2. Desai and NirmalBhalerao (1999), Economic History of Indian, Himalaya Publishing House, New Delhi

3. Eric Roll: A History of Economic Thought, Faber and Faber, London 2004

4. Ganguli. B.N, *Indian Economic Thought: A 19th Century Perspective*, McGraw Hill, New Delhi, 1977.

5. Girija and Manimekalai, (1998), History of Economic Thought, Virinda Publications, New Delhi.

6. Grey, A. and Thomson. A.E., *The Development of Economic Doctrine*, Longman Group, London, 1980.

7. Hagela, (2000), History of Economic Thought, Konark Publications, New Delhi.

8. Harry Landreth and David C Colander: History of Economic Thought, 4th Edn, Houghton Mifflin Company, Boston

9. Kautilya.,*TheArthashastra* (Edited, Rearranged, Translated and Introduced by L.N. Rangarajan), Penguin Books New Delhi ,1992.

10. Lional Robbins, (2000),A History of Economic Thought, Oxford University Press, Chennai.

11. Lokanathan,A., *AHistory of Economic Thought* , S. Chand and Company, New Delhi, 2007 [ninth revised edition].

12. Mittal Sanjay and Prakash Sharma (1999), Economic thought – then and new. RBSA Publications, Jaipur.

13. Neelakandan S. (2012) Adamsmith mudhal karl marx varai- sevviyal arasdiyal ,poruladharam; kalasuvadukal publications

14. Sankaran.S. (2000), History of Economic Thought, Margham Publications, Chennai.

15. Schumpeter. J.A., *A History of Economic Analysis*, OUP, New York, 1954.

Seshadri. G.B., *Economic Doctrines*, B.R. Publishing Corporation, New Delhi, 1997.

16. T.N. Hajela (1 January 2025), History of Economic Thought, 18th Edition, Ane Books, New Delhi ISBN-10 : 9383656964

Course Outcomes

On completion of the course, students should be able to		K Level					
		K1	K2	K3	K4	K5	K6
CO1	Recap the Ideas of Mercantilists and Physiocrats.	✓	✓				
CO2	Evaluate the Ideas of Classical Economists.				✓	✓	
CO3	Critically Examine the Ideas of Neo Classical Economists.				✓	✓	
CO4	Analyse the Difference Between Classical and Keynesian Thoughts.				✓	✓	
CO5	Appreciate the Ideas of Indian Economists' Contributions.					✓	