



Ready for
Every Good Work

SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

Resi : (04179) 220103

College : (04179) 220553

Fax : (04179) 226423

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

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**Post Graduate and Research Department of Economics
Sacred Heart College (Autonomous) Tirupattur-635601. Tirupattur District.**

Course structure for B.A. Economics under new CBCS with effect from 2021-2022 onwards

Name of the Programme: EC01 - BA ECONOMICS

Vision:

We, the Department of Economics of Sacred Heart College, inspired by the love of the Heart of Jesus and fundamental human values, following the educative system of Don Bosco are committed to the creation of an ethical and prosperous society, to empower the student in higher education in terms research and consultancy.

Mission:

To impart quality of education of student community to create a society more worthy of humans.

Programme Outcomes at Undergraduate Level

Programme will be able to:

| | |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| PO1 | Impart knowledge and understanding: apply new ideas in order to obtain employment / self-employment. |
| PO2 | Demonstrate communication skills both oral and written in personal and academic pursuits. |
| PO3 | Recognize moral and ethical values and being socially responsible citizens in the society. |
| PO4 | Direct their own self-learning through MOOC courses, co-curricular activities industrial exposures and field trainings. |
| PO5 | Develop their own brand conceptual background in Social Sciences, Computing Skills, Languages, Culture, Managerial Skills, and Physical Sciences. |
| PO6 | Apply analytical, technical, problem solving, critical thinking and decision making skills. |

Programme Specific Outcomes at Undergraduate Level

Programme will be able to:

| | |
|-------------|-----------------------------------------------------------------------------------|
| PSO1 | Demonstrate different principles and theories subject to obtain employment. |
| PSO2 | Equip various skills with basic quantitative techniques. |
| PSO3 | Appraise as a responsible citizen incorporating social, ethical and moral values. |
| PSO4 | Holistic development in self-study, virtual learning and development. |
| PSO5 | Develop the analytical skills in the field of social and physical sciences. |
| PSO6 | Pursue higher learning programmes and become entrepreneurs. |

Post Graduate and Research Department of Economics

**Sacred Heart College (Autonomous) Tirupattur-635601, Tirupattur District.
Course structure for B.A. Economics under new CBCS with effect from 2021-2022**

| SEMESTER – I | | | | | | |
|---------------------|--------------|--------------------------------------------------------|-----------|-----------|-------|-----|
| Course | Subject Code | Subject Title | Hours | Credits | Marks | |
| | | | | | CIA | Sem |
| I | | Tamil – I | 5 | 3 | 50 | 50 |
| II | | English – I | 5 | 2 | 50 | 50 |
| III | E120 | Core: Economic Thought | 5 | 5 | 50 | 50 |
| III | E121 | Core: Statistics for Economics | 5 | 5 | 50 | 50 |
| III | | Allied History – I: History of India (1858-1947 AD) | 6 | 4 | 50 | 50 |
| IV | | Foundation course – Communication Skills | 2 | 1 | 100 | |
| IV | | Religion / Ethics | 2 | 1 | 100 | |
| | | Communicative English – I | | 1 | | |
| | | English Lab – I | | 1 | | |
| Total | | | 30 | 23 | | |

| SEMESTER – II | | | | | | |
|----------------------|--------------|----------------------------------------------------------|-------|---------|-------|-----|
| Course | Subject Code | Subject Title | Hours | Credits | Marks | |
| | | | | | CIA | Sem |
| I | | Tamil – II | 5 | 3 | 50 | 50 |
| II | | English –II | 5 | 2 | 50 | 50 |
| III | E218 | Core: Micro Economics – I | 5 | 5 | 50 | 50 |
| III | E219 | Core: Mathematics for Economics | 5 | 5 | 50 | 50 |
| III | | Allied History – II : History of India (1947-2014 AD) | 6 | 4 | 50 | 50 |
| IV | | Foundation Course – Leadership Skills | 2 | 1 | 100 | |
| IV | | Religion / Ethics | 2 | 1 | 100 | |
| | | Communicative English – II | | 1 | | |

| | | | | | | |
|--------------|--|------------------|-----------|-----------|--|--|
| | | English Lab – II | | 1 | | |
| Total | | | 30 | 23 | | |

| SEMESTER – III | | | | | | |
|----------------|--------------|-------------------------------------------------------------------------------------------------------------------|-----------|-----------|-------|-----|
| Course | Subject Code | Subject Title | Hours | Credits | Marks | |
| | | | | | CIA | Sem |
| I | | Tamil – III | 5 | 3 | 50 | 50 |
| II | | English – III | 5 | 2 | 50 | 50 |
| III | E317 | Core: Micro Economics – II | 5 | 5 | 50 | 50 |
| III | E318 | Core: Macro Economics – I | 5 | 5 | 50 | 50 |
| III | | Allied Political Science-I: Outline of Comparative Government Allied Commerce: Principles of Accountancy | 6 | 4 | 50 | 50 |
| IV | | Foundation Courses – Technical Skills | 2 | 1 | | |
| IV | | Human Rights | 2 | 1 | | |
| | | English Lab – III | | 1 | | |
| Total | | | 30 | 22 | | |

| SEMESTER – IV | | | | | | |
|---------------|--------------|--------------------------------------------------------------------------------------------------------------|-----------|-----------|-------|-----|
| Course | Subject Code | Subject Title | Hours | Credits | Marks | |
| | | | | | CIA | Sem |
| I | | Tamil – IV | 5 | 3 | 50 | 50 |
| II | | English – IV | 5 | 2 | 50 | 50 |
| III | E419 | Core: Macro Economics –II | 5 | 5 | 50 | 50 |
| III | E420 | Core: Industrial Economics | 5 | 5 | 50 | 50 |
| III | | Allied Political Science-II: The Constitution of India Allied Commerce: Elements of Cost Accounting | 6 | 4 | 50 | 50 |
| IV | | Foundation courses– Employability Skills | 2 | 1 | | |
| IV | | Environmental Science (EVS) | 2 | 1 | | |
| | | English Lab – IV | | 1 | | |
| | | Extension Activities | | | | |
| | | Groups and Movements | | 2 | | |
| | | Outreach Programme | | 2 | | |
| Total | | | 30 | 26 | | |

| SEMESTER – V | | | | | | |
|--------------|--------------|-----------------------------------------|-----------|-----------|-------|-----|
| Course | Subject Code | Subject Title | Hours | Credits | Marks | |
| | | | | | CIA | Sem |
| III | E543 | Core: International Economics | 6 | 5 | 50 | 50 |
| III | E544 | Core: Fiscal Economics – I | 5 | 5 | 50 | 50 |
| III | E545 | Core: Indian Economy | 6 | 5 | 50 | 50 |
| III | E546 | Core: Monetary Economics – I | 5 | 5 | 50 | 50 |
| III | E547A | Elective:1.Managerial Economics | 6 | 5 | 50 | 50 |
| | E547B | Elective:2.Basic Econometrics | | | | |
| | E547C | Elective:3.Human Resource Management | | | | |
| III | NEC504 | Non-Major Elective – I: Basic Economics | 2 | 1 | | |
| III | | SSP *: Self Study Paper | | 1 | | |
| Total | | | 30 | 27 | | |

| SEMESTER – VI | | | | | | |
|--------------------|--------------|----------------------------------------------------------|-----------|------------|-------|-----|
| Course | Subject Code | Subject Title | Hours | Credits | Marks | |
| | | | | | CIA | Sem |
| III | E643 | Core: Environmental Economics | 6 | 5 | 50 | 50 |
| III | E644 | Core: Monetary Economics – II | 5 | 5 | 50 | 50 |
| III | E645 | Core: Fiscal Economics – II | 5 | 5 | 50 | 50 |
| III | E646 | Subject Skill: Financial Economics | 6 | 5 | 50 | 50 |
| III | E647 | Subject Skill: Basic Computer and its Application | 6 | 5 | 50 | 50 |
| III | NEC604 | Non-Major Elective – II: Indian Economy: Basic Issues | 2 | 1 | | |
| III | | SSP *: Self Study Paper | | 1 | | |
| Total | | | 30 | 27 | | |
| Grand Total | | | | 148 | | |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|-------------------------|----------|----------|
| I | E120 | ECONOMIC THOUGHT | 5 | 5 |

Course Objectives:

1. To gain knowledge on the perception of economic thinking of mercantilism and physiocracy.
2. To understand the logical foundations of the Classical School in Economics.
3. To identify the different Neo-Classicals and their contributions in economics.
4. To understand the different types of demand for money in terms of Keynesian ideas.
5. To compare the recent Indian economic thought with classical economic thought.

Course Outcomes:

After successful completion of the course, students will be:

| S. No | CO – Statement | Cognitive Level (K – Level) |
|-------|-----------------------------------------------------------------------------|-----------------------------|
| CO-1 | Understanding of the ancient and medieval economic thoughts. | K1, K2 |
| CO-2 | Comparing the logical foundations of the Classical School in economics. | K2, K3 |
| CO-3 | Developing the different Neo-Classical and their contributions in economics | K3, K4 |
| CO-4 | Applying the Keynesian ideas for various types of demand for money | K4, K5 |
| CO-5 | Analysing and evaluating the modern economic ideas. | K5, K6 |

Unit- I: Mercantilism and Physiocracy**(15 Hours)** Mercantilism;

characteristics - Physiocracy; primacy of agriculture, social classes.

Unit- II: Classical School**(15 Hours)**

Classification – features, Adam Smith – Division of labour, theory of value, capital accumulation, distribution, views on trade, economic progress, Thomas R Malthus, David Ricardo, J.B. Say – economics ideas of Say.

Unit- III: Neo-Classicals**(15 Hours)**

Knut Wicksell- Main theories of Wicksell, theory of capital and interest, Monetary reforms, competition, J.B Clark- Tausig – Institutional theory of Veblen, Karl Marx.

Unit- IV: Keynesian Ideas**(15 Hours)**

Liquidity Preference Theory and Liquidity Trap, Marginal Efficiency of Capital and Marginal Efficiency of Investment, wage rigidities, underemployment equilibrium- Aggregate Demand and Supply.

Unit- V: Recent Indian Economic Thought**(15 Hours)**

Modern Economic Ideas: - Gandhiji - R.C Dutt – Amartya Sen's Poverty approach - Abhijit Banerjee's approach.

Text Books:

1. V. Lokanathan, "A History of Economic Thought", S. Chand & Company Ltd, New Delhi, 2007.
 - Unit I – Chapters 5, 6. PP. 28 - 38.
 - Unit II – Chapters 7, 10, 11, PP. 46 - 53, PP. 63 - 73.
 - Unit III – Chapters 25, 26. PP. 142 - 151.
 - Unit IV – Chapters 27, 29. PP. 152 - 162, PP. 165 - 166.
 - Unit V – Chapters 32, PP. 177 - 221.
2. S. R. Singh, "Economic Thought", APH Publishing Corporation, New Delhi, 2014.

Unit I – Chapter 1, PP. 1 - 80.

Unit II – Chapters 2, PP. 81 - 129.

Unit III – Chapters 5, PP. 228 - 253.

Unit IV – Chapters 4, PP. 180 - 227.

Unit V – Chapters 5, PP. 228 - 275.

References:

1. Heinz D. Kurz, “Economic Thought – A brief History”, Rawat Publications, New Delhi, 2018.
2. John Maynard Keynes, “The General Theory of Employment, Interest & Money”, MJP Publishers, New Delhi, 2019.
3. Guy Routh, “The Origin of Economic Ideas”, The Macmillian Press Ltd, London, 1989.
4. S.S.M. Desai, “Economic History of India”, Himalaya Publishing House, New Delhi, 2000.
5. H.L. Bhatia, “History of Economic Thought”, Vani Educational Books Publications, New Delhi, 1978.
6. B.N. Ganguli, “Indian Economic Thought”, TATA McGraw-Hill Publishing Co. Ltd, New Delhi, 1977.

Journals:

1. The Economic History Review
2. Journal of the History of Economic Thought.
3. The European Journal of the History of Economic Thought.
4. Economic Thought Journal.
5. Journal of Economic Theory
6. Journal of Economic Literature
7. International Journal of Political Economy
8. Journal of Economic Issues
9. Economic Thought – Scimago Journal
10. Economic History of Developing Regions

Web Resources:

1. <https://www.slideshare.net/SanaHassanAfridi1/mercantilism-andthephysiocrats>
2. <https://cleartax.in/g/terms/classical-economics#:~:text=Classical%20economics%20refers%20to%20the,and%20belief%20in%20free%20competition.>
3. <https://www.investopedia.com/terms/n/neoclassical.asp>
4. <https://www.imf.org/external/pubs/ft/fandd/2014/09/basics.htm>
5. <https://vips.edu/wp-content/uploads/2020/09/The-Economic-Thoughts-of-Gandhi-Relevance-for-the-Progressive-India.pdf>
6. [https://www.researchgate.net/publication/340298748_HOW_TO_ALLEVIATE_POVERTY_LESSONS_FROM_THE_2019_NOBEL_PRIZE_IN_ECONOMICS#:~:text=In%202019%2C%20Esther%20Duflo%2C%20Abhijit,randomized%20controlled%20trials%20\(RCTs\).](https://www.researchgate.net/publication/340298748_HOW_TO_ALLEVIATE_POVERTY_LESSONS_FROM_THE_2019_NOBEL_PRIZE_IN_ECONOMICS#:~:text=In%202019%2C%20Esther%20Duflo%2C%20Abhijit,randomized%20controlled%20trials%20(RCTs).)

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|------|-------------------------|---------------------|-----|-----|-----|-----------------------------------|------|------|------|------|--------------------|--------|
| I | E120 | Economic Thought | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1.9 | |

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-------------|
| CO2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2.7 |
| CO3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2.5 |
| CO4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2.4 |
| CO5 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2.6 |
| Mean Overall Score | | | | | | | | | | | 2.5 |
| Result | | | | | | | | | | | High |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|------------------|----------------------------|------------|-------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------------------|----------|----------|
| I | E121 | STATISTICS FOR ECONOMICS | 5 | 5 |

Course Objectives:

1. To learn relevant statistical concepts related to Economics.
2. To gain knowledge about importance of variability.

3. To understand the theory and practice of bivariate analysis.
4. To know the concepts and techniques of regression analysis.
5. To measure the changes in group of related variables using index numbers.

Course Outcomes:

After successful completion of the course, the student will be

| S. No. | CO- Statement | Cognitive Level (K-Level) |
|--------|---------------------------------------------------------------------|---------------------------|
| CO-1 | Understanding the different fundamental statistical methods. | K1, K2 |
| CO-2 | Comparing various measures of dispersion. | K2, K3 |
| CO-3 | Applying bivariate methods to real world problems. | K3, K4 |
| CO-4 | Analysing the regression in the business and corporate field. | K4, K5 |
| CO-5 | Constructing indexes to measure price changes and quantity changes. | K5, K6 |

Unit -I: Concepts of Statistics

(15 Hours)

Meaning and definition, functions, Source of Data: Primary and secondary data, method of collection of primary data and sources of secondary data. Classification, tabulation of data. Diagrammatic and graphic representation of data. Measures of Averages- Arithmetic mean median, mode, geometric mean and harmonic mean.

Unit- II: Measures of Dispersion

(15 Hours)

Need for the study of measures of deviation. Range, quartile deviation, mean deviation, standard deviation and coefficient of variation. Skewness and Kurtosis.

Unit- III: Bivariate Data Analysis

(15 Hours)

Correlation Analysis- meaning and definition, types of correlation, limit of correlation coefficient, methods of study of correlation: scatter diagrammatic method, Karl Pearson’s coefficient of correlation, Spearman’s rank correlation.

Unit- IV: Regression Analysis

(15 Hours)

Meaning and definition, two regression lines, two regression equations. Regression equation of X on Y and regression equation on Y on X. Two regression coefficient.

Unit- V: Index numbers

(15 Hours)

Methods of construction of index numbers – Cost of living Index - Laspeyres, Paache’s, Marshall – Edgeworth’s, Fisher’s Ideal index number; Time reversal and Factor reversal test.

Text Books

1. Gupta S.P, ‘Statistical Methods’ 46th Edition, (Volume I), Sultan Chand & Sons Publications, New Delhi, 2021.

| | | |
|----------|---|--------------------|
| Unit-I | - | Chapter 3, 5 and 7 |
| Unit-II | - | Chapter 8 and 9 |
| Unit-III | - | Chapter 10 |
| Unit-IV | - | Chapter 11 |
| Unit-V | - | Chapter 13 |

- Pillai R.S.N and Bagavathi, 8th Edition, ‘Statistics: Theory and Practice’, S. Chand and Company Ltd. New Delhi, 2019.

Books for References

- Gupta S.C, ‘Fundamental of Statistics’ 7th Edition, Himalaya Publishing House, New Delhi, 2018.
- Pillai R.S.N and Bagavathi, “Statistics: Theory and Practice”, 8th Edition, S. Chand & Co Ltd. New Delhi, 2019.
- Gupta S.C and Kapoor .V.K, “Fundamentals of Mathematical Statistics”, 12th Edition, Sultan Chand & Sons Publications, New Delhi, 2020.
- Vittal P.R, “Business Mathematics and Statistics”, Margham Publications, Chennai, 2020.
- Derek Rowntree, “Statistics without Tears: An Introduction to Non-Mathematicians”, Penguin, UK, 2018.
- David M. Levine, “Business Statistics”, 7th Edition, Pearson Education, New Delhi 2017.
- Sharma J.K, “Business statistics: Problems and Solutions”. Vikas Publishing House, New Delhi, 2012.

Journals

- <https://www.tandfonline.com/toc/cjas20/current>
- <https://www.springer.com/journal/362>
- https://serialsjournals.com/index.php?route=product/product&product_id=452
- <http://stmjournals.com/Journal-of-Statistics.html>
- <https://www.hindawi.com/journals/jps/>

Web resources

- <https://www.economics.utoronto.ca/jfloyd/stats/ecstats.pdf>
- <https://www.oreilly.com/library/view/business-statistics-second/9789332503434/>
- <https://edge.sagepub.com/gau3e/student-resources-0>
- <https://online.stat.psu.edu/statprogram/courses/requirements>
- www.tutor2u.com
- www.khanacademy.com
- <https://2012books.lardbucket.org/pdfs/beginning-statistics.pdf>

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|------|-------------|--------------------------|-----|-----|-----|-----|-----------------------------------|------|------|------|-------|--------------------|
| I | E121 | STATISTICS FOR ECONOMICS | | | | | | | | | 5 | 5 |
| | | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs |
| | | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | | 3 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 |
| CO2 | | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.3 |

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-------------|
| CO3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2.4 |
| CO4 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2.1 |
| CO5 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2.4 |
| Mean Overall Score | | | | | | | | | | | 2.3 |
| Result | | | | | | | | | | | High |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|-------------------|----------------------------|------------|----------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the Course | Hours | Credits |
|-----------|-------------|----------------------------|----------|----------|
| II | E218 | MICRO ECONOMICS – I | 5 | 5 |

Course Objectives:

1. To gain knowledge about the fundamentals of micro economics.
2. To learn the traditional method of demand analysis
3. To understand modern method of demand analysis
4. To learn the production function and its related laws.
5. To know the various concepts of costs and revenues.

Course Outcomes:

After the successful completion of the course, the student will be

| S. No. | CO- Statement | Cognitive Level (K-Level) |
|--------|----------------------------------------------------------------------------|---------------------------|
| CO – 1 | Understanding the fundamental division of micro economics. | K1, K2 |
| CO – 2 | Comparing traditional theories of consumer behaviour with demand analysis. | K3, K4 |
| CO – 3 | Analysing modern theories of consumer behavior with demand analysis. | K3, K4 |
| CO – 4 | Evaluating production functions and its application. | K4, K5 |
| CO – 5 | Appraising traditional and modern theories of costs and Revenues. | K5, K6 |

Unit - I: Definition and Scope of Economics (15 Hours)

Definition (Lionel Robbins) and Scope of micro economics – Difference between Micro and Macro Analysis – Inductive and Deductive Methods – Positive and Normative economics – Static and Dynamic economics.

Unit - II: Cardinal Utility Analysis (15 Hours)

Meaning of Demand and supply – Equilibrium – Law of Demand – Utility Analysis - Law of Diminishing Marginal Utility – Law of Equi-marginal Utility – Derivation of demand curves – Short comings of Utility analysis – Elasticity of demand – Price, Income, Cross Elasticity of demand.

Unit - III: Ordinal Utility Analysis (15 Hours)

Indifference Curve – Assumptions of Indifference Curve Analysis – Properties of Indifference Curves – Marginal Rate of Substitution –Price Line – Equilibrium – Price effect – Income Effect – Substitution Effect – Consumer surplus.

Unit - IV: Production (15 Hours) Production

Function – The law of variable proportions – Laws of Return to Scale – Cobb Douglas -Iso-cost and Iso-quant – Producer's Equilibrium – Internal and External economies of Scale – Types.

Unit - V: Costs and Revenue Functions**(15 Hours)**

Money costs and Real Costs – Opportunity cost and Social cost – Short run and long run cost curves – Revenue curves – Derivation of Revenue curves.

Text Books

1. A. Koutsoyiannis, 'Modern Microeconomics' 2nd Edition, Macmillan Publications. 2008
2. Hal. R. Varian, 'Intermediate Microeconomics – A Modern Approach', 8th Edition, W. W. Norton & Company Publications, USA. 2010.
Unit 1 – Chapter 1&2, Page: 3 – 38, H.L. Ahuja, 'Advanced Economic Theory – Microeconomic Analysis' S. Chand & Company Ltd. New Delhi. 2019.
Unit 2 – Chapter 2, Page: 23, Agarwala. S. K, Principles of Economics, 2nd Edition, Excel Books, New Delhi. 2010.
Unit 3 – Chapter 11, Page: 235 - H.L. Ahuja, 'Advanced Economic Theory – Microeconomic Analysis' S. Chand & Company Ltd. New Delhi.
Unit 4 – Chapter 16, Page: 328 - H.L. Ahuja, 'Advanced Economic Theory – Microeconomic Analysis' S. Chand & Company Ltd. New Delhi.
Unit 5 - Chapter 20, Geoffrey A. Jehle and Philip J Reny, Advanced Microeconomic Theory, 3rd Edition, Prentice Hall University Press.

Books for References

1. Ahuja H.L, Advanced Economic Theory, Micro and Macro Analysis, S.Chand, New Delhi, 2017.
2. Samuelson P.A 'Economics' -TATA McGraw Hill – New Delhi-1985.
3. Stonier A.W & Huge D.C, A text book of Economic Theory', Longmans Green London, 1980.
4. Bell and Todaro M.P 'Economic Theory'- Mac Millan, London, 1980.
5. William J.Baumol 'Economic Theory and Operations Analysis', Practice Hall, London, 1961.
6. Gregory Mankiw 'Principles of Economics'- Thomson Australia, 1998.
7. Jhingan.M.L 'Micro Economic Theory'-Vrinda, New Delhi, 2017.

Journals

1. Stefan Napel, Advanced Microeconomics – I, Universitat Bayreuth.
2. Emmanuel Ifeanyi, National Open University of Nigeria (NOUN),
3. The Quarterly Journal of Economics, Oxford University Press.
4. Econometrica, Econometric Society.
5. Review of Economic Studies, Oxford University Press.

Web Resources

1. https://www.academia.edu/38262502/A_koutsoyiannis_Modern_Microeconomics_Second_Edition
2. <https://zalamsyah.staff.unja.ac.id/wp-content/uploads/sites/286/2019/11/1-Advanced-Microeconomic-theory-3rd-Ed.-JEHLE-RENY.pdf>
3. <https://open.umn.edu/opentextbooks/textbooks/193>
4. <https://faculty.ksu.edu.sa/sites/default/files/microeco-varian.pdf>
5. https://scholar.google.co.in/scholar?q=microeconomics+theory+and+applications+pdf&hl=en&as_sdt=0&as_vis=1&oi=scholar

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|--------------------|-------------------------|---------------------|-----|-----|-----|-----------------------------------|------|------|------|------|--------------------|--------|
| II | E218 | MACRO ECONOMICS - I | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1.9 | |
| CO2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2.2 | |
| CO3 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | |
| CO4 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2.2 | |
| CO5 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2.2 | |
| Mean Overall Score | | | | | | | | | | | 2.1 | |
| Result | | | | | | | | | | | High | |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|------------------|----------------------------|------------|-------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------------|-------|---------|
| II | E219 | Mathematics for Economics | 5 | 5 |

Course Objectives:

1. To give knowledge and understanding of mathematical concepts in terms of set theory.
2. To make the students to learn matrices and its different components.
3. To apply differentiation concepts with that of various economic theories.
4. To offer a platform for measuring skills in terms of lines and curves.
5. To provide mathematical techniques in derivation of various functions in economic concepts.

Course Outcomes:

After the successful completion of the course, the student will be

| S. No. | CO – Statements | Cognitive Level (K-Level) |
|--------|-------------------------------------------------------------------------------|---------------------------|
| CO – 1 | Understanding set theory and its applications. | K1, K2 |
| CO – 2 | Applying matrix methods in different economic theories. | K2, K3 |
| CO – 3 | Expertizing the application of differentiation to diverse economic functions. | K3, K4 |
| CO – 4 | Constructing and measuring through graphical solutions. | K4, K5 |
| CO – 5 | Integrating economic theories with mathematical applications. | K5, K6 |

Unit - I: Set Theory

(15 Hours)

Definition - description - types– operations – laws - Venn diagram - Number of elements of a set, Cartesian product.

Unit - II: Matrix

(15 Hours)

Definition, types of matrices, addition and subtraction, matrix multiplication, transpose of a matrix, determinant of a matrix, inverse of matrix, Cramer’s rule for solving simultaneous equations.

Unit – III: Differentiation

(15 Hours)

Concept of differentiation, rules of differentiation, differentiation of an implicit function, successive differentiation and partial differentiation.

Unit - IV: Functions and curves

(15 Hours)

Positive and negative quadrants, distance formula, straight line, its slope and equations. Circle and equation of a circle. Demand function and curve.

Unit - V: Derivation

(15 Hours)

Cost functions and curves, Revenue Functions: Total - Average - Marginal. Profit functions.

Text Books

1. Edward T. Dowling, Mathematical Methods (Schaum’s Series), McGraw Hill Publications, New Delhi, 2003.
2. Madnani G.M.K., and Mehta B.C., Mathematics for Economists, Sultan Chand & Sons, 9th Edition, 2008.

Unit 1 – Chapter 19 - Madnani G.M.K., and Mehta B.C., Mathematics for Economists, Sultan Chand & Sons, 9th Edition, 2008.

Unit 2 – Chapter 10, 11 & 12 - Edward T. Dowling, Mathematical Methods (Schaum's Series), McGraw Hill Publications, New Delhi, 2003.

Unit 3 – Chapter 9 - Edward T. Dowling, Mathematical Methods (Schaum's Series), McGraw Hill Publications, New Delhi, 2003.

Unit 4 – Chapter 2 - Madnani G.M.K., and Mehta B.C., Mathematics for Economists, Sultan Chand & Sons, 9th Edition, 2008.

Unit 5 - Chapter 3 & 4 - Edward T. Dowling, Mathematical Methods (Schaum's Series), McGraw Hill Publications, New Delhi, 2003.

Books for References

1. Vittal P.R, Business Mathematics and Statistics, Margham Publications, Chennai, 2017.
2. Chiang. A.C, Fundamentals methods of Mathematical Economics, McGraw Hill Publications, New Delhi, 2002.
3. Agarwal C.S and Joshi R.C, Mathematics for students of Economics, New Academic Publications, 2008.
4. Kam Yu, Mathematical Economics: Prelude to the Neoclassical Model, Springer Publications, New Delhi, 2020.
5. Lokesh Boro, Mathematical Economics, Bidya Bhawan Publishers private Ltd, India, 2019.
6. Jain T.R, Majhi B.D, Mathematical Methods for Economics, VK Global Publications Pvt, Ltd, India, 2020.
7. Bose D, An Introduction to Mathematical Economics, Himalaya Publishing House, New Delhi, 2018.

Journals

1. Journal of Mathematical Economics, Elsevier.
2. Mathematics and Financial Economics, Springer.
3. Mathematical Economics: Application of Fractional Calculus, MDPI
4. International Journal of Game Theory, Springer.
5. Journal for Quantitative Economics, Springer.

Web Resources

1. <https://www.economicnetwork.ac.uk/teaching>
2. <http://www.math.uni-magdeburg.de>
3. <http://www.parisschoolofeconomics.com>
4. <https://mjo.osborne.economics.utoronto.ca>
5. <https://www.haverford.edu/mathematical-economics>
6. <https://www.classcentral.com/course/swayam-mathematical-economics-14187>

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|---------------------------|--------------------------------|-----------------------------------|------------|------------|------------|------------------------------------------|-------------|-------------|-------------|-------------|---------------------------|----------|
| II | E219 | MATHEMATICS FOR ECONOMISTS | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | |
| CO2 | 3 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2.2 | |
| CO3 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 | |
| CO4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.2 | |
| CO5 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2.4 | |
| Mean Overall Score | | | | | | | | | | | 2.18 | |
| Result | | | | | | | | | | | High | |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|-------------------------|-----------------------------------|-------------------|--------------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|-----------------------------|-------|---------|
| III | E317 | Micro Economics – II | 5 | 5 |

Course Objectives:

1. To teach concepts of Perfect competition and its features.
2. To learn imperfect competition and its price and output determination.
3. To understand the theory of distribution and rent theory.
4. To know the concept of wage and its determination.
5. To understand the concept and theories of interest and profit.

Course Outcomes:

After the successful completion of the course, the student will be;

| Sl. No. | CO – Statements | Cognitive Level |
|---------|-------------------------------------------------------------------------|-----------------|
| CO – 1 | Knowing the market behavior under perfect competition. | K1, K2 |
| CO – 2 | Understanding the market behavior under imperfect market. | K2, K3 |
| CO – 3 | Familiarizing the knowledge of traditional and modern theories of Rent. | K3, K4 |
| CO – 4 | Becoming a capable in the estimation of wage determination. | K4, K5 |
| CO – 5 | Applying the theories of Interest and profit. | K5, K6 |

Unit I: Perfect Competition (15 Hours)

Features - Equilibrium of firm and industry-Perfect vs Pure Competition-Pricing under Perfect Competition under Short run and Long run -Importance of time element in price theory.

Unit II: Imperfect Competition (15 Hours)

Monopoly: Features - Price and output determination – Price Discrimination – Monopolistic Competition: Features - Price and output determination - Group equilibrium – Excess Capacity. Oligopoly: Features - Cournot Model, Kinked Demand – Collusive and Non Collusive.

Unit III: Theory of Distribution: Rent (15 Hours)

Ricardian theory of rent - Criticisms - Modern theory of Rent - Rent and Price: - Quasi rent

Unit IV: Theory of Distribution: Wages (15 Hours)

Functional and Personal distribution – Factor pricing and Product pricing – Marginal productivity theory of distribution – Criticisms-Money wages and real wages – Theories of Wages: Adam Smith, JS Mill - Trade Unions and Collective Bargaining.

Unit V: Theory of Distribution: Interest and Profit (15 Hours)

Gross and Net Interest-variations in interest rates-Classical theory of interest – Loanable fund theory. Keynes Liquidity preference theory. Gross Profit and Net profit -theories of profit - Dynamic profit - Risk theory of profit-Uncertainty bearing theory.

Text Books

1. Ahuja H.L, Advanced Economic Theory, Micro and Macro Analysis, S.Chand, New Delhi, 2019.
- Ahuja H.L, Advanced Economic Theory, Micro and Macro Analysis, S.Chand, New Delhi, 2019.

Unit - I: Chapter 1 & 2, Page: 3 – 38.

Unit – II: Chapter 6 & 7, Page: 137 – 183

Unit – III: Chapter 10 & 11, Page: 235 – 286

Unit – IV: Chapter 16, 17 & 18, Page: 328 – 378

Unit – V: Chapter 20 & 21, Page: 394 - 450

Books for References

1. A. Koutsoyiannis, 'Modern Microeconomics' 2nd Edition, Macmillan Publications. 2008
2. Hal. R. Varian, 'Intermediate Microeconomics – A Modern Approach', 8th Edition, W. W. Norton & Company Publications, USA. 2010.
3. Samuelson P.A 'Economics' -TATA McGraw Hill – New Delhi-1985.
4. Stonier A.W & Hume D.C, 'A text book of Economic Theory', Longmans Green London, 1980.
5. Bell and Todaro M.P 'Economic Theory' - Mac Millan, London, 1980.
6. William J.Baumol 'Economic Theory and Operations Analysis', Practice Hall, London, 1961.
7. Gregory Mankiw 'Principles of Economics'- Thomson Australia, 1998.
8. Jhingan.M.L 'Micro Economic Theory'-Vrinda, New Delhi, 2017.

Journals for Reference

6. Stefan Napel, Advanced Microeconomics – I, Universitat Bayreuth.
7. American Economic Journal: Microeconomics
8. Journal of Economics: Springer
9. Journal of political economy: Microeconomics
10. Journal of Economic Perspectives
11. Journal of Applied Economics
12. Journal of Economics & Development Studies
13. The Quarterly Journal of Economics, Oxford University Press.
14. Econometrica, Econometric Society.
15. Review of Economic Studies, Oxford University Press.

Web Resources

1. https://www.academia.edu/38262502/A_koutsoyiannis_Modern_Microeconomics_Second_Edition
2. <https://zalamsyah.staff.unja.ac.id/wp-content/uploads/sites/286/2019/11/1-Advanced-Microeconomic-theory-3rd-Ed.-JEHLE-RENY.pdf>.
3. <https://open.umn.edu/opentextbooks/textbooks/193>
4. <https://faculty.ksu.edu.sa/sites/default/files/microeco-varian.pdf>
5. https://scholar.google.co.in/scholar?q=microeconomics+theory+and+applications+pdf&hl=en&as_sdt=0&as_vis=1&oi=scholar

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|--------------------|-------------------------|----------------------|-----|-----|-----|-----------------------------------|------|------|------|------|--------------------|--------|
| III | E317 | MICRO ECONOMICS - II | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2.1 | |
| CO2 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | |
| CO3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.2 | |
| CO4 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.2 | |
| CO5 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | |
| Mean Overall Score | | | | | | | | | | | 2.12 | |
| Result | | | | | | | | | | | High | |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|------------------|----------------------------|------------|-------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| III | E318 | Macro Economics – I | 5 | 5 |

Course Objectives

1. To study the basic macroeconomic concepts and national income.
2. To understand the theories of employment.
3. To learn the concept of consumption function.
4. To know the theories of consumption function.
5. To study the theories of investment function.

Course Outcomes:

After successful completion of the course, the student will be able to

| S. No | CO-Statement | Cognitive Level (K-Level) |
|-------|--------------------------------------------------------|---------------------------|
| 1 | Understanding the basics of national income accounting | K1, K2 |
| 2 | Familiarizing with the theories of employment.. | K2, K3 |
| 3 | Enabling the concepts of consumption function. | K3,K4 |
| 4 | Equipping them with theories of consumption function. | K4,K5 |
| 5 | Applying the theories of investment function. | K5,K6 |

Unit – I: Introduction to Macro Economics and National Income (15 Hours)

Definition – Nature and Scope of Macro Economics – Significance and Limitations – Macro Variables: stock and flow variables - National Income: Meaning – Definitions – Different concepts – Methods of Measurement – Difficulties in national income estimation – Circular Flow of income (Four sectors models).

Unit – II: Theory of Employment (15 Hours)

Concept of employment - Say's Law of Market - Classical theory of employment: Features - Keynesian theory of employment: Determination of effective demand – Comparison and contrast between Classical and Keynes contribution.

Unit – III: Consumption Function (15 Hours)

Factors affecting consumption - Keynes Psychological law of consumption - Relationship between Average and Marginal Propensity to Consume.

Unit – IV: Theories of Consumption Function (15 Hours)

Absolute Income Hypothesis of Keynes - Relative Income Hypothesis of J.S. Duesenberry - Permanent Income Hypothesis of Milton Friedman - Life cycle Hypothesis of Ando and Modigliani.

Unit – V: Investment Function (15 Hours)

Types of investments - Marginal efficiency of capital (MEC) and Marginal Efficiency of Investment (MEI) - Determinants - Multiplier: Investment multiplier - Accelerator – Interaction between multiplier and accelerator– Super multiplier.

Text Book:

1. Ahuja H.L Macro Economic Theory and Policy: Advanced Analysis, S. Chand Publications, New Delhi- 2006.
Unit I – Chapter 1 & 2, PP 3 – 35

Unit II – Chapter 3 & 4, PP 36 – 66

Unit III – Chapter 6, PP 102 - 119

Unit IV – Chapter 7, PP 120 – 131

2. Jhingan M.L and Jhingan B.K, Macro Economic Theory, Vrinda Publications, Delhi – 2019.
Unit V – Chapter 2, PP 91 - 100

References:

1. Wendy Carlin & David Soskice, "Macroeconomics", Oxford University Press, New Delhi, 2010.
2. Deepashree & Vanita Agarwal, "Macroeconomics", Ane Books Pvt. Ltd, New Delhi. 2017.
3. Ahuja H.L., "Macro Economic Analysis", Chand S., Publications, New Delhi, 2010.
4. Edward Shapiro, "Macro Economic Analysis", Galgotia, New Delhi. 2013.

Journals:

1. American Economic Journal: Macroeconomics
2. South Asian Journal of Macroeconomics and Public finance
3. Macroeconomic Dynamics, Cambridge Core
4. The B.E. Journal of Macroeconomics
5. Journal of Political Economy Macroeconomics
6. Journal of Macroeconomics, Elsevier
7. Journal of Macroeconomics, SCIMAGO
8. Journal of Macroeconomics, Scholars Portal

Web Resources:

1. <https://durhamtech.libguides.com/macroeconomics/web>
2. [Exploring Macroeconomics | Online Resources \(sagepub.com\)](#)
3. [Macroeconomics | Economics | Khan Academy](#)
4. [Oxford University Press | Online Resource Centre | Introduction to Macroeconomics \(oup.com\)](#)
5. [60+ Macroeconomics Courses & Certifications \[2023\] | Learn Online for Free | Class Central](#)
6. [Macroeconomics | Definition | Finance Strategists](#)
7. [Principles of Macroeconomics 2e - OpenStax](#)

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|--------------------|-------------------------|---------------------|-----|-----|-----|-----------------------------------|------|------|------|------|--------------------|--------|
| III | E318 | MACRO ECONOMICS - I | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 | |
| CO2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.2 | |
| CO3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | |
| CO4 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | |
| CO5 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 | |
| Mean Overall Score | | | | | | | | | | | 2.12 | |
| Result | | | | | | | | | | | High | |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|------------------|----------------------------|------------|-------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the course | Hours | Credits |
|----------|-------------|----------------------|-------|---------|
| IV | E419 | Macro Economics – II | 5 | 5 |

Course Objectives

- To study the working of IS-LM.
- To learn the concepts and theories of inflation and deflation.
- To understand the theories of trade cycle.
- To study various economic growth models.
- To know the monetary and fiscal policy.

Course Outcomes:

After successful completion of the course, the student will be able to

| S. No | CO-Statement | Cognitive Level (K-Level) |
|-------|-----------------------------------------------------|---------------------------|
| 1 | Understanding the general equilibrium analysis. | K1, K2 |
| 2 | Examining the theories of inflation and deflation | K2, K3 |
| 3 | Assessing the theories of trade cycle. | K3,K4 |
| 4 | Familiarizing with growth theories. | K4,K5 |
| 5 | Gaining an overview of monetary and fiscal policies | K5,K6 |

Unit - I: IS-LM Models (15 Hours)

Derivation of IS curve and LM curve - General Equilibrium in Macro Economics: Fiscal and Monetary Changes and effects – The crowding in and crowding out effect - The four Sector IS-LM Model – The IS-LM Model with the Balance of Payment Function.

Unit - II: Inflation and Deflation (15 Hours)

Types and Causes – Methods of measuring Inflation – Economic Effects of Inflation - Measures to control Inflation - Anti-inflation Policy – Deflation and its Effects – The difference between inflationary and deflationary gap - Phillip’s Curve – Rational Expectation Hypothesis

Unit - III: Trade Cycle (15 Hours)

Characteristics – Phases – Effects – Theories of Hicks, Hawtrey, Schumpeter, Keynes – Policy Measures to control Trade Cycle

Unit - IV: Growth Models in Macro Economics (15 Hours)

Significance – Uses – Limitations– Tests - Neo Classical Models: Solow and Meade – Balanced and Unbalanced Models – Static and Dynamic models in Macro Economics

Unit - V: Macro Economic Policy (15 Hours)

Monetary policy and Fiscal policy– Objectives – Instruments–Conflicting in Macro Economic goals – Present Macro Economic Scenario in India.

Text Book:

- Ahuja H.L Macro Economic Theory and Policy: Advanced Analysis, S. Chand Publications, New Delhi- 2006.
Unit I – Chapter 24, PP 409 – 424
Unit III – Chapter 27, PP 467 - 487
- Jhingan M.L and Jhingan B.K, Macro Economic Theory, Vrinda Publications, Delhi – 2019.

Unit II – Chapter 37, PP 295 – 328
Unit IV – Chapter 40 to 45, PP 361 – 385
Unit V – Chapter 46, PP 389 - 403

References:

1. Misra.S.K and V.K.Puri, Economics of Development and Planning. Mumbai, Himalaya Publishing House, 2006.
2. Ahuja H.L. “Macro Economic Analysis” Chand and Sons Publications, New Delhi, 2010.
3. Dwivedi D.N., Macro Economic Theory and Policy, Tata McGraw – Hill Publishing Company Ltd, New Delhi, 2005.
4. Seth M.L., Macro Economics, Lakshmi Narayan Agarwal Educational Publishers, Agra, 2017.
5. Jhingan M. L., Macro Economic Theory, Twelfth Edition, Vrinda Publications, Pvt., Ltd. Delhi, 2017.
6. Edward Shapiro, “Macro Economic Analysis”, Galgotia, New Delhi. 2013.

Journals:

1. American Economic Journal: Macroeconomics
2. South Asian Journal of Macroeconomics and Public finance
3. Macroeconomic Dynamics, Cambridge Core
4. The B.E. Journal of Macroeconomics
5. Journal of Political Economy Macroeconomics
6. Journal of Macroeconomics, Elsevier
7. Journal of Macroeconomics, SCIMAGO
8. Journal of Macroeconomics, Scholars Portal

Web Resources:

1. <https://durhamtech.libguides.com/macroeconomics/web>
2. [Exploring Macroeconomics | Online Resources \(sagepub.com\)](#)
3. [Macroeconomics | Economics | Khan Academy](#)
4. [Oxford University Press | Online Resource Centre | Introduction to Macroeconomics \(oup.com\)](#)
5. [60+ Macroeconomics Courses & Certifications \[2023\] | Learn Online for Free | Class Central](#)
6. [Macroeconomics | Definition | Finance Strategists](#)
7. [Principles of Macroeconomics 2e - OpenStax](#)

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|--------------------|-------------------------|----------------------|-----|-----|-----|-----------------------------------|------|------|------|------|--------------------|--------|
| IV | E419 | MACRO ECONOMICS - II | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 | |
| CO2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | |
| CO3 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | |
| CO4 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.1 | |
| CO5 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.2 | |
| Mean Overall Score | | | | | | | | | | | 2.1 | |
| Result | | | | | | | | | | | High | |

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|------------------|----------------------------|------------|-------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|----------------------|-------|---------|
| IV | E420 | Industrial Economics | 5 | 5 |

Course Objectives:

1. To understand the basic concepts in Industrial Economics.
2. To learn the theories in Industrial location, mergers, and SEZs.
3. To know the classification of Indian industries and its productivity.
4. To analyze the sources of industrial financial institutions.
5. To evaluate the performance of industrial development.

Course Outcomes:

By the end of this course, students will be:

| S. No. | Description | Cognitive Level (K-Level) |
|--------|-----------------------------------------------------------------------|---------------------------|
| CO-1 | Working with Industrial linkages. | K1, K2 |
| CO-2 | Familiarizing the theories of Industrial location, mergers, and SEZs. | K2, K3 |
| CO-3 | Differentiating the Indian industries and its productivity. | K3, K4 |
| CO-4 | Exploring the sources of industrial financial institutions. | K4, K5 |
| CO-5 | Appraising the industrial dynamics, and its regulations. | K5, K6 |

Unit - I: Role of Industries

(15 Hours)

Role of industries in economic development- Industry and sectoral linkages; industrial organization-private sector, public sector- joint sector and cooperative sector.

Unit - II: Location of Industries

(15 Hours)

Location of industries – Webber’s - Sargent Florence theories of industrial Location, Integration and Merger of industrial units – problems of regional imbalances -Special Economic Zones.

Unit - III: Classification of Industries

(15 Hours)

Large Scale, Medium and Small Scale Industries; Industrial Production and Productivity in India, Industrial Disputes.

Unit - IV: Industrial Finance, Sicknesses and Policy

(15 Hours)

Industrial finance – Role, Nature, Sources of industrial finance; financial institutions –IFCI, ICICI, IDBI, State Financial Corporations: TIC, DIC, SIDCO, Industrial Sickness – Industrial policy.

Unit - V: Industry Development

(15 Hours)

Geography and industrial dynamics, innovation, Firm survival and the evolution of industries, industry life cycle, Turnover and mobility of firms, Regulation: regulation of firms with market power under asymmetric information; regulation under asymmetric information.

Text Book:

1. Barthwal R R, Industrial Economics: An Introductory Text Book, New Age International Publishers, 2021.
 - Unit – II Chapter 17.1 to 17.2
 - Unit – IV Chapter 11.1 to 11.5
 - Unit – V Chapter
2. Kiran Jotwani, Industrial Economics: Nirali Prakashan Advancement of Knowledge, Pune, 2013.
 - Unit – I Chapter 1.1 to 1.3
 - Unit – II Chapter 2.1 to 2.4
 - Unit – III Chapter 3.1 to 3.4

References:

| Sem. | Course Code | Title of the Course | | | | | | | | | Hours | Credit |
|--------------------|-------------------------|----------------------|-----|-----|-----|-----------------------------------|------|------|------|------|--------------------|--------|
| IV | E420 | INDUSTRIAL ECONOMICS | | | | | | | | | 5 | 5 |
| | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| CO1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | |
| CO2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | |
| CO3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2.2 | |
| CO4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.1 | |
| CO5 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.2 | |
| Mean Overall Score | | | | | | | | | | | 2.12 | |
| Result | | | | | | | | | | | High | |

1. Cherunilam F, Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai. 1994.
2. Desai B, Industrial Economy in India(3rd Edition),Himalaya Publishing House,Mumbai.1999.
3. Kuchhal.S.C Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad. 1980.
4. Singh.A and A.N.Sadhu, Industrial Economics, Himalaya Publishing House, Bombay. 1988.
5. Ahluwalia,I.JIndustrial Growth in India, Oxford University Press, New Delhi. 1995.
6. Devine P.Jet,alAn Introduction to Industrial Economics (3rd Edition) George Allen and Unwin,London.1978.
7. Singh S.P, Industrial Economics and Management, AITBS Publishers, New Delhi, 2008.
8. Sharma A.K. Industrial Economics, Anmol Publisher, Karnataka, 2007.
9. Ranjana Seth. Industrial Economics. ANE Books, New Delhi, 2010.

Journals:

1. The Journal of Industrial Economics
2. International Journal of Industrial Organization
3. Journal of Industrial Economics
4. Journal of Industrial Economics
5. Industrial and Corporate Change

Websites:

1. <https://indecon.com/>
2. <https://egyankosh.ac.in/handle/123456789/3349>
3. <https://www.slideshare.net/attrimahesh/industrial-economics>
4. <https://aiu.edu/publications/student/english/industrial%20economics.html>
5. <https://elearning15.unibg.it/course/view.php?id=889>
6. <https://onlinelibrary.wiley.com> ›

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

| Bloom's Category | CA Tests (Marks Allotment) | | Term End Exam (100) Marks Allotment |
|-------------------------|-----------------------------------|-------------------|------------------------------------------------|
| | I CA (50) | II CA (50) | |
| Remember | 10 | 10 | 20 |
| Understand | 10 | 10 | 30 |
| Apply | 10 | 10 | 10 |
| Analyze | 10 | 10 | 10 |
| Evaluate | 5 | 5 | 10 |
| Create | 5 | 5 | 20 |

Objective

- To help the students to familiarize theories, policies and international financial institutions.

Unit - I: Concept of International Trade

Nature and scope of International Trade - Inter-regional and International Trade: difference - similarities – Theories: Smith's Theory of absolute Costs, Ricardo's Theory of Comparative Costs, Heckscher-Ohlin Theory.

Unit - II: Terms of Trade and Tariffs

Terms of trade: Classification - Factors affecting terms of Trade - Tariffs: Types - Dumping: Types and Objectives – Cartel: types, advantages and disadvantages.

Unit - III: Foreign Exchange Control and Balance of Payments

Exchange Control: Features, Objectives, Methods, Merits and Demerits - Balance of Trade and Balance of Payments – Disequilibrium in Balance of Payments, Measures to correct Balance of payments.

Unit - IV: Foreign Exchange Market and Foreign Capital

Foreign Exchange Market, Methods of Foreign payments, Spot and Forward Exchange markets – Types of International Capital movement – Flow of FDI and FII– Foreign Capital in India: Impact of Foreign Capital on India's Economic Development.

Unit - V: International Financial Institutions

IMF: Origin, Objectives, Functions, Organization and Structure, Working of the Fund, Special Drawing Rights (SDR). **Asian Development Bank:** Functions, Organization, India and ADB. **WTO:** Its structure, objectives, Functions.

Text Book

Jhingan M.L "International Economics", Vrindha Publication, New Delhi.2011.

References

- Cherunilam, Francis 'International Economics', Tata McGraw-Hill Publishing Co. Ltd., New Delhi.1998.
- Dana M. S 'International Economics: Study, Guide and Work Book' (5th Edition). Routledge Publishers. London. 2000.
- Dunn, R.M. and J.H. Mutti 'International Economics', Routledge Publishers. London.2000.
- Soderston, 'International Economics', Macmillan, London.2002.
- Mithani G.M, Essence of International Economics, Himalaya Publishing House, New Delhi. 2001.
- Paul Krugman and Maurice Obstfeld– "International Economics: Theory and Policy", 2005.

Websites:

- <http://www.tradeget.com/partners.html>
- <http://commin.nic.in>
- <http://ipindia.nic.in/ipr/patent/patents.htm>
- <http://dgft.delhi.nic.in>
- <http://dipp.nic.in/>
- http://dipp.nic.in/intellectual_property_dipp.htm
- <http://imf.org>
- <http://wto.org>
- <http://economagic.com>
- <http://www.emginkts.com/>

Fiscal Economics – I

Semester – V

5 Hours / 5 Credits

Objective

- Public economics is the study of government policy from the point of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization.

Unit – I: Nature and scope of Fiscal Economics

Origin, Definition, Meaning and Scope of fiscal finance – Distinction between private and fiscal finance – Public goods versus private goods – Role of fiscal finance in under-developed countries - Principle of maximum social advantage (Musgrave).

Unit – II: Public Expenditure

Meaning, Scope, Difference between public and private expenditures – Aims and Principles of public expenditure – Classification – Reasons for the growth of public expenditure - Causes and effects of public expenditure with reference to India.

Unit – III: Public Revenue and Taxation

Sources of public revenue – Distinction between tax revenue and non tax revenue – Trend in revenue – Taxation – Meaning – Characteristics of a good tax system - Sources of taxation – Classification of taxes – Canons – Incidence and Shifting of taxation – Effects of taxation.

Unit – IV: Taxes and Duties

Individual taxes (with reference to India) – Income tax – Expenditure tax – wealth tax – Property tax- Estate duty – Gift tax – Death duty – Customs duty – Excise duty – Sales tax – Value added tax – Goods and Services Tax (GST): Importance, merits and demerits.

Unit – V: Taxable Capacity

Meaning, Definition, Absolute and Relative taxable capacity – Significance - Factors determining taxable capacity – Limits – Measurement of taxable capacity – Taxable capacity and Ability to pay – Burden of taxation.

Text Book

1. Tyagi.B.P., Public Finance, Jai Prakash Nath Co. Meerut, 2008.

References:

1. Musgrave, R.A., and P.B.Musgrave, Public Finance Theory and Practice, Tata McGraw Hill, New Delhi, 2015.
2. Philip. E. Taylor, Economics of Public Finance, Oxford University Press, New Delhi, 2015.
3. Lekhi.R.L., Public Finance, Kalyani Publishers, Chennai, 2015.

Semester – V

Indian Economy

6 Hours / 6 Credits

Objective: To understand the nature and characteristics of Indian Economy and its Policies and issues.

Unit – I: Structure of the Indian Economy

Underdeveloped economy – Meaning – Characteristics of the Indian economy – Major issues of development – Occupational distribution – Human development index in India – Sectoral composition of national Income in India.

Unit – II: Economic Planning and Development

Economic development Vs Growth: Determinants – Planning: Definition – Scope – Objectives – Mixed Economy model of Development strategy – LPG model of development Strategy – Planning Commission: NITY YOG: Roles & functions.

Unit – III: Agricultural Sector in the National Economy

The role of Agriculture in the Economy – Progress of Agriculture under the five year plans – Green Revolution – Contract farming.

Unit – IV: Industrial and Service Sector

The role of Industrialization in Indian Economy – Classifications of Industry – Large Scale – Small Scale – the role of SSIs in Indian Economy – Service Sector: Transport and Communication, Banking, Insurance and Tourism.

Unit – V: Emerging Issues in Indian Economy

The Concept of Poverty – Poverty Alleviation Programmes – Farmer’s Suicides - Black Money: meaning – Impact and factors responsible for black money, Health and Education challenges – Unemployment: types – Recent Employment Programme – MGREGP - Inequality, Rural Infrastructure in India.

Text Book:

1. Ruddardutt & Sundharam. K. P. M, “Indian Economy”, Sultan Chand and Company, Ram Nagar, New Delhi.2010.

References:

1. Dhingra.I.C, The Indian Economy, Environment and Policy, Sultan Chand & company, Ram Nagar, New Delhi.2001.
2. Mongia.J.N, “Indian Economic Policies”, Allied publishers, New Delhi.2000.
3. Sankaran.S, “Indian Economy”, Margham Publication, Chennai.2005.
4. Agarwal.A.N, Indian Economy Problems and Development Planning, VishwaPrabhakaran Publishers, New Delhi.2002.
5. Planning Commission Report, Government of India Publication, New Delhi.
6. Annual Report, Reserve Bank Bulletin, Government of India Publication, New Delhi

Websites:

1. <http://dare.nic.in>
2. <http://ari.gov.in>
3. <http://aquaculture.tn.nic.in>
4. <http://agricoop.nic.in>
5. <http://drdpat.bih.nic.in>
6. <http://www.nddb.org>
7. <http://dahd.nic.in>
8. <http://www.niam.gov.in>
9. <http://www.manage.gov.in>
10. <http://planningcommission.gov.in>

Semester-VI

Environmental Economics

6 Hours / 6 Credits

Objective

- To explore the fundamental theories of environmental economics, the environmental problems and policy measures.

Unit – I: Scope of Environmental Economics

Scope of environmental economics – Types of environmental resources: renewable and non-renewable – inter-linkage between the economy and environment – Sustainable development.

Unit – II: Externalities

Meaning of Externalities, Types of goods – Classification of environmental resources public, private and common property – Institutional failure, market, government and other institutions – Tragedy of commons – pollution control policies – command and control Vs market based approaches.

Unit – III: Economic Valuation Techniques

Taxes, Permits subsidies, Revealed Preference methods: Travel Cost Method, Coase's Theorem, Household production function approach, State Preference Methods; Benefit/Cost Analysis; Contingent Valuation Method, Technology versus Environment.

Unit – IV: Macro Economics of Environment

Economic growth and environment – Environmental Kuznet's Curve-trade and environment – Global environmental problems global warming: cause and effects – Climate change and their implications.

Unit – V: Environmental Problems and Regulation in India

Environmental Problems in India: Water pollution, air pollution, land degradation, Waste Management, deforestation, pollution and health problems, Environmental policies in India – Environmental Impact Assessment (EIA); Institutions for environmental protection in India – environmental federalism.

Text Book:

1. Hanley Nick, Jason F. Shogren and Ben White, Environmental Economics in Theory and Practice, N.Y. Macmillan, 1997.

References:

1. Kostald Charles D, Environmental Economics, Oxford University Press, 2002
2. Perman R. May, McGilvary M. Common Natural Resources and Environmental Economics (3rded.) Pearson Addison Wesley, 2003
3. Cunnigham, Environmental Economics, Raintree Publishers, Chennai, 2001
4. Karpakam, Environmental Economics, Kalyani publications, Chennai 2000.

Semester-VI

Monetary Economics - II

6 Hours /6 Credits

Objective:

- To know the working of the both national and international banking systems.

Unit - I: Commercial Banking.

History of banking – branch and unit banking - credit creation – commercial bank and economic development – nationalization of banks with reference to India.

Unit – II: Central Banking.

Definition – need – nature and functions – central bank in a developed money market – central in an undeveloped money market – methods of credit control-Demonetization and its impact.

Unit - III: Money market and Stock exchange.

Money market: composition – institution and significance of money market. Stock Exchange: Functions – importance of stock exchange – Governmental control of stock exchange – operation of stock exchange –Stock Exchange Board of India (SEBI).

Unit – IV: Indian Banking System.

The Reserve Bank of India : organization and management – functions – RBI and industrial development – industrial financial institutions (IDBI, IFCI, SFCI, UTI). Non-Bank financial Institutions (NBI) – financial sectoral reforms in India.

Unit –V: International Monetary Institutions.

International Monetary Fund (IMF): purpose – organization- operation – India and the Fund – International liquidity and the Fund. International Bank for Reconstruction and Development (IBRD): Functions – organization – operation – India and IBRD.

Text Book:

1. Jhingan.M.L, Monetary Theory, Delhi, Konark, publication, 2004.

References:

1. Growther.G, An Outline of money, London, Longman\$Green, 1900.
2. Vaish.M.C, Monetary Economics, New Delhi, Vikaspub., 1968.
3. Gosh.B.N, and Rama Gosh, Fundamentals of Monetary Economics, Bombay, Himalayapub., 1989.
4. Gibson.W.E, and George G Kaufman, Monetary Economics, Delhi, Tata Macgraw Hill, 1975.
5. Friedman.M, Studies in Quantity Theory of Money, Chicago, Chicago University Press, 1900.
6. Gurusamy.S,Banking Theory Law and Practice,Vijay Nicole, Chennai,2005.

Semester –VI

Fiscal Economics – II

6 Hours/ 6 Credit

Objective:

- Public economics is the study of government policy from the point of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization.

Unit – I: Public Debt

Meaning and Difference between Public debt and private debt – Objectives and Importance of Public Debt - Sources of Public Borrowings – Effects of public debt – Public debt of Central and State Government – Redemption and management of Public Debt.

Unit – II: Federal and Local Finance

Federal Finance: Principles – Analysis of division of revenue, expenditure other powers between Union, State and Local Governments – Finance commission – Recommendations of recent finance commission.
Local Finance: Local Bodies: Village panchayats – Municipalities – Corporations – Functions and sources of finance to local bodies – Limitations of local finance.

Unit – III: Deficit Financing

Meaning - Objectives - Role of deficit financing – Effects on prices, production and distribution – Causes, Uses, Evils and Limits of Deficit financing.

Unit – IV: Public Budget

Meaning – Purpose – Budget Framing – Classification of Budget - Presentation of Budget – Balanced Budget and Multiplier Effect – Budget as an instrument of economic policy.

Unit – V: Fiscal Policy

Meaning – Objectives and instruments of fiscal policy in a developing economy – Role of Multiplier in Determination of fiscal policy – Limitations of Fiscal Policy - Recent central budget.

Text Book:

1. Tyagi.B.P., Public Finance, Jai PrakashNathCo. Meerut, 2008.

References:

1. Musgrave, R.A., and P.B.Musgrave, Public Finance Theory and Practice, Tata McGraw Hill, New Delhi, 2015.
2. Philip. E. Taylor, Economics of Public Finance, Oxford University Press, New Delhi, 2015.
3. Lekhi.R.L., Public Finance, Kalyani Publishers, Chennai, 2015.