DEPARTMENT OF ECONOMICS

CHOICE BASED CREDIT SYSTEM (CBCS) Learning Outcome-based Curriculum Framework (LOCF) SYLLABUS

B.A. Economics

2023 - 2024



MADRAS CHRISTIAN COLLEGE (AUTONOMOUS)

College with Potential for Excellence Affiliated to University of Madras Tambaram Chennai – 600 059 MADRAS CHRISTIAN COLLEGE

VISION

Madras Christian College aspires to be an Institution of excellence transforming lives through education with a commitment to service.

MISSION

Madras Christian College (MCC) with the inspiration of the love of God offers to people of all communities' education of the whole person, which is congruous with God's revelation in Christ of the true nature of humanity and is appropriate to the needs of India and of the world.

Graduate Attributes

The Madras Christian College defines the philosophy underpinning its academic programmes and student life experience on campus through the Graduate Attributes (GA), that describe the knowledge, competencies, values and skills students imbibe for holistic development and contribution to society. These attributes encompass characteristics that are transferable beyond the domain of study into the national and international realm fostered through curricular, co-curricular and extra-curricular engagements.

GA 1: Intellectual Competencies

- Graduates of MCC have a comprehensive and incisive understanding of their domain of study as well as the capability for cross-disciplinary learning.
- They have the ability to apply the knowledge acquired through the curriculum as well as self-directed learning to a broad spectrum ranging from analytical thinking to synthesise new knowledge through research.
- Forming independent individual opinions regarding academic cores and socially relevant issues

| Graduate chosen of | es of MCC de careers and co | evelop ethica onstructive c | l and profes itizenship i | ssional beha oles. | viour, which | will be dem | nonstrated in th |
|--------------------|--------------------------------|--------------------------------|------------------------------|-----------------------|--------------|-------------|------------------|
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• They imbibe intellectual integrity and ethics in scholarly engagement and develop a spirit of inclusiveness through interactions with people of special needs and diversity.

GA3: Leadership Qualities

- Graduates of MCC inculcate leadership qualities & attitudes, and team behaviour along democratic lines through curricular, co-curricular and extra-curricular activities
- They develop managerial and entrepreneurial skills to ideate and create new opportunities along with career readiness and capacity to take up various competitive exams.

GA 4: Holistic Skill Development

- Graduates of MCC develop critical thinking, problem-solving, effective communication, emotional and social skills
- They develop digital competency to live, learn and serve in society.

GA 5: Cross-Cultural Competencies

- Graduates of MCC imbibe cross-cultural competencies through engaging with diverse linguistic, ethnic and religious communities providing scope to understand, accept and appreciate individuals at local, national and international levels.
- They develop a global perspective through contemporary curriculum, culture, language and international exchange programmes

GA 6: Service-Oriented Focus

- Graduates of MCC have sensitivity to social concerns and a conviction toward social justice through a commitment to active social engagement.
- They are endowed with a strong sense of environmental awareness through the curriculum and campus eco-system.

GA 7: Value-Based Spiritual Development

- Graduates of MCC are rooted in the principles of ethical responsibility and integrity permeated with Christian values leading to the building of character.
- They develop virtues such as love, courage, unity, brotherhood, industry and uprightness.

Programme Outcomes

Programme Outcomes (POs) of Madras Christian College define the minimum level that students are expected to do, achieve and/or accomplish in order to graduate from a particular programme. These Outcomes are a framework to assess the nature of learning activity experienced within the programme.

POs for Under Graduate Programmes

UG Programmes are designed to have the following outcomes:

On successful completion of the Undergraduate programme, the students will be able to

| РО | PO | Descripton of PO | Mapped with GA |
|------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| PO 1 | Language Skills | Demonstrate oral and written skills to effectively communicate in English and Languages of their choice Apply reading and listening skills to facilitate access to knowledge resources and understanding | GA1, GA4, GA5 |
| PO 2 | Domain Knowledge | Acquire knowledge of basic concepts, theories and processes through study of core courses in respective programmes Apply and Analyze domain specific knowledge to emerging areas of academia and industry Assess, adapt and develop domain specific transferrable skills to new/unfamiliar context | GA1, GA3, GA4, GA5 |
| PO 3 | Interdisciplinary knowledge | Identify and determine relationships across disciplines Acquire and apply interdisciplinary knowledge for | GA1, GA4 |

| | | holistic academic development | |
|------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| PO 4 | Digital Skills | Acquire computer skills and their application relevant to classroom and self-directed web-based learning Familiarize with and use domain-related software resources, computational skills and digital tools for data analysis, visualization and interpretation Ethically apply digital skills to creatively communicate a wide range of ideas and issues related to academic experiences | GA1, GA2, GA3, GA4, GA6 |
| PO 5 | Analytical skills | Develop the ability to think critically and relate learning to academic, professional and reallife problem solving Apply empirical knowledge and skills to identify and collect quantitative and qualitative data to analyze and formulate evidence-based suggestions and solutions | GA1, GA2, GA4, GA6 |
| PO 6 | Academic writing & Presentation skills | Formulate and document results obtained in laboratory, case studies, project work, field work and internships Effectively communicate through engaging presentations using methodologies | GA1, GA4, GA5 |

| PO 7 | Innovation and Creativity | appropriate to the discipline Demonstrate transferable capabilities and intrapreneurial skills that are relevant to the industry and other employment opportunities Develop entrepreneurial skills and generate intellectual property |
|------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 8 | Social Engagement and Responsibility | Demonstrate the ability to link classroom learning with social concerns through service learning and outreach programmes. Enhance positive personality traits to adapt to changing circumstances and demonstrate leadership qualities as an individual and a member of cross-cultural and multidisciplinary teams. Appreciate environmental consciousness and sustainability Draw valuable insights from one's own spiritual tradition and that of others for peaceful coexistence and general wellbeing |

PROGRAM SPECIFIC OUTCOMES (PSO's)*

UG ECONOMICS

At the time of graduation they would be able to:

| PSO# | Statement | Mapped with PO# |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| PSO 1 | Gain an in-depth understanding and appreciation of the theoretical foundations of Economics and the historical evolution of economic ideas | PO1, PO2 |
| PSO 2 | Understand, compare and contrast the working of the Indian economy and the world economies and examine the interlinkages between them in today's globalized world. | PO1, PO2 |
| PSO 3 | Apply the knowledge of Economics and determine how individuals, groups and entities strategically interact with one another in optimizing their economic behaviour. | PO2, PO3 |
| PSO 4 | Extend the understanding of Economics to other social sciences and issues of sustainability (environment and social) and propose practical innovative solutions addressing societal needs | PO1, PO2, PO3, PO6, PO7, PO8 |
| PSO 5 | Develop and nurture critical analytical thinking and relevant digital skills to sort out issues of social and economic relevance. | PO1, PO3, PO4, PO5, PO7, PO8. |

Curriculum Template for (B.A. ECONOMICS)

(Effective from **–** 2023-2024)

| este | Part | Cou rse | Course title | Instruc tion | Durat ion of | | Mark | S | Credits |
|------|--------------------------|------------|-----------------------------------------------------------|-----------------------|--------------|-----|------|-------|---------|
| | | code | | hours per Cycle | exam | ICA | ESE | Total | |
| | Part-I | | Language -I | 4 | 3 | 50 | 50 | 100 | 3 |
| | Part-II | | English -I | 4 | 3 | 50 | 50 | 100 | 3 |
| | Part-III. a Major-1 | | Micro Economic Theory - I | 5 | 3 | 50 | 50 | 100 | 5 |
| | Part-III. a Major-2 | | Linear Algebra for Economics | 5 | 3 | 50 | 50 | 100 | 5 |
| | Part- III. b Allied-I | | Indian Economy : Structure | 6 | 3 | 50 | 50 | 100 | 5 |
| | Part IV. a | | General Course :Principles of Economics / BT /AT | 4 | 3 | 50 | 50 | 100 | 2 |
| | Part-IV. d | | Value Education: Social Ethics | 2 | 3 | 50 | 50 | 100 | 1 |
| | Total | | 30 | | | | | 24 | |
| | Part-I | | Language -II | 4 | 3 | 50 | 50 | 100 | 3 |
| | Part-II | | English -II | 4 | 3 | 50 | 50 | 100 | 3 |
| | Part-III. a Major-3 | | Micro Economic Theory - II | 5 | 3 | 50 | 50 | 100 | 5 |

| Part-III. a Major-4 | Calculus for Economics | 5 | 3 | 50 | 50 | 100 | 5 |
|---------------------------|-----------------------------------------------------------------------------|----|---|----|----|-----|----|
| Part- III. b Allied-I | Introduction to Game Theory | 6 | 3 | 50 | 50 | 100 | 5 |
| Part IV. a | General Course :Principles of Economics / BT /AT | 4 | 3 | 50 | 50 | 100 | 2 |
| Part-IV. d | Value Education: Social Studies/ Gender studies /Christian Studies | 2 | 3 | 50 | 50 | 100 | 1 |
| Total | | 30 | | | | | 24 |
| Part-I | Language -III | 4 | 3 | 50 | 50 | 100 | 3 |
| Part-II | English -III | 4 | 3 | 50 | 50 | 100 | 3 |
| Part-III. a Major-5 | Macro Economic Theory - I | 5 | 3 | 50 | 50 | 100 | 5 |
| Part-III. a Major-6 | Development of Economic Ideas | 5 | 3 | 50 | 50 | 100 | 5 |
| Part- III. b Allied-II | International Business | 6 | 3 | 50 | 50 | 100 | 5 |
| Part IV. b | Personality development (Skill Based) | 2 | 3 | 50 | 50 | 100 | - |
| Part-IV. c | Environmental Studies | 4 | 3 | 50 | 50 | 100 | 2 |
| Total | · | 30 | | | | | 23 |
| Part-I | Language -IV | 4 | 3 | 50 | 50 | 100 | 3 |
| Part-II | English -IV | 4 | 3 | 50 | 50 | 100 | 3 |
| Part-III .a Major-7 | Macro Economic Theory - II | 5 | 3 | 50 | 50 | 100 | 5 |
| Part-III .a Major-8 | Statistics for Economics | 5 | 3 | 50 | 50 | 100 | 5 |
| Part-III .b Allied-II | Agricultural Economics | 6 | 3 | 50 | 50 | 100 | 5 |
| Part IV. b | Personality development (Skill Based) | 2 | 3 | 50 | 50 | 100 | 3 |
| Part-IV. b | Interdisciplinary: Economics of Education And Health | 4 | 3 | 50 | 50 | 100 | 3 |
| Total | | 30 | | | | | 27 |
| Part-III .a Major-9 | Public Finance Theory & Practice | 6 | 3 | 50 | 50 | 100 | 5 |
| Part-III .a Major-10 | Economics of Industry | 6 | 3 | 50 | 50 | 100 | 5 |
| Part-III .a Major-11 | Econometrics | 6 | 3 | 50 | 50 | 100 | 5 |
| Part-III .a Major-12 | Economics of Entrepreneurship(With a mini Project) | 6 | 3 | 50 | 50 | 100 | 5 |
| Part-IV. b | Computer Training (Skill Based) | 2 | 3 | 50 | 50 | 100 | 3 |

| Part-IV. b | General elective: | 4 | 3 | 50 | 50 | 100 | 3 |
|-------------|-------------------|----|---|----|----|-----|----|
| | | 4 | 3 | 30 | 30 | 100 | 3 |
| | Economy, state | | | | | | |
| | and society | | | | | | |
| Total | | 30 | | | | | 26 |
| Part-III .a | International | 6 | 3 | 50 | 50 | 100 | 5 |
| Major-13 | Economics | | | | | | |
| Part-III .a | Economics of | 6 | 3 | 50 | 50 | 100 | 5 |
| Major-14 | Institutions | | | | | | |
| Part-III .a | Indian Economy- | 6 | 3 | 50 | 50 | 100 | 5 |
| Major-15 | Policy and | | | | | | |
| | Performance | | | | | | |
| Part-III .a | Economics of | 6 | 3 | 50 | 50 | 100 | 5 |
| Major-16 | Money & Banking | | | | | | |
| Part-III .a | Environmental | 6 | 3 | 50 | 50 | 100 | 5 |
| Major-17 | Economics(With a | | | | | | |
| | mini | | | | | | |
| | Project) | | | | | | |
| Part-V | Physical | | 3 | 50 | 50 | 100 | 1 |
| Extension | Education/NSS/NC | | | | | | |
| activities | C/Sports/Scrub | | | | | | |
| (Outside | Society/Service | | | | | | |
| class | Learning | | | | | | |
| Hours) | Programme/Depart | | | | | | |
| | ment Association | | | | | | |
| | activities | | | | | | |
| Total | | 30 | | | | | 26 |

| Sl No | Semester | Number of hours per | Credit |
|-------|--------------|---------------------|--------|
| | | cycle | |
| 1 | Semester I | 30 | 24 |
| 2 | Semester II | 30 | 24 |
| 3 | Semester III | 30 | 23 |
| 4 | Semester IV | 30 | 27 |
| 5 | Semester V | 30 | 26 |
| 6 | Semester VI | 30 | 26 |
| | Total | 180 | 150 |

| Curriculum Overview Table | | | | | |
|-------------------------------------------|----------------------|-----------------------------------|--|--|--|
| Part | Credits | Hours / Cycle | | | |
| Language | 3+3+3+3=12 | 4 | | | |
| English | 3+3+3+3=12 | 4 | | | |
| III – Core theory (mandatory) | 5+5+5+5+5+5+5+5+5+5+ | 5 hours in 1st and 2nd year and 6 | | | |
| | 5+5+5+5=85 | hours in 3 rd year | | | |
| III – Core Elective | NA | | | | |
| III – Core Practical* | NA | | | | |
| III – Internship / Field work | NA | | | | |
| III – Project | NA | | | | |
| III – Allied theory | 5+5+5+5=20 | 6 | | | |
| III – Allied Practical* | NA | NA | | | |
| IV - GC | 2+2=4 | 4 | | | |
| IV - GE | 3 | 4 | | | |
| IV – ID | 3 | 4 | | | |
| IV – EVS | 2 | 4 | | | |
| IV – Computer Training | 3 | 2 | | | |
| IV – Personlaity Development / Soft Skill | 3 | 2 | | | |
| IV Value Education | 1+1=2 | 2 | | | |
| V – Extension Activity | 1 | NA | | | |
| Total | 150 | | | | |

| Course | e Title | MICRO ECONOMIC THEORY I | | | | |
|-------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------|---------------------------------------|--|
| Credit | s | | | | | |
| Hour | s / Cycle | | | | | |
| Ca | tegory | Part | Core | Theory | | |
| Sei | mester | I | | <u> </u> | | |
| Year o | f | From the acade | emic year 2023-2024 on | wards (this is re | quired as some | |
| Imple | mentation | of the courses i | may not be revised dur | ing particular re | vision) | |
| Course Objectives | | On completion of the course on Micro economic theory I students should be able to know the objective functions and equilibrium conditions for consumers and producers. Students will also be able to understand how equilibrium price and output ate determined in goods as well as factor markets. Students should also know the functioning of markets with perfect and monopol competition. | | | | |
| CO # | | Course Outco | ome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) | |
| On compl | leting the co | urse successfully, | the student will be ab | e to | | |

| CO 1 | Recall the basic concepts in Economics and various approaches to study economics | PSO 1 | K1 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|
| CO 2 | Understand consumer behavior with various demand functions and theories such as Indifference Curve analysis, Revealed Preference Theory, Slutsky's theorem and Elasticity of Demand | PSO1 PSO 3 | K2 |
| CO 3 | Interpret the concepts of production function and structure and supply function | PSO 1 PSO 3 | К3 |
| CO 4 | Evaluate and understand Cost function and Revenue function, profit function | PSO1 PSO 4 | K5 |
| CO 5 | Analyze the market structures such as perfect competition, monopoly and monopolistic competition that exist in the economy. | PSO1 PSO 5 | K4 |

| | SYLLABUS | | | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|--------------------------------|
| UNIT | CONTENT | HOURS | COs | BIOOM'S TAXONOM Y LEVELS |
| I | Module– I Introduction to Micro Economics – Difference between Micro and Macro Economics – Difference between Partial and general equilibrium – Static, comparative static and dynamic equilibrium – Inductive and deductive approach – positive and normative approach – concepts – scarcity, choice and opportunity cost – allocation of Resources – Firm and industry. | | CO1 | K1, K2 |
| II | Module– II | 15 | CO2 | K4,K2 |
| | a. Demand analysis – Law of demand, factors determining demand – demand function –demand curve – shift and scope of demand curve – elasticity of demand – types – methods to measure elasticity – factors determining elasticity | | | |
| | b. Utility – utility in use, utility in exchange- cardinal utility, ordinal utility – Law of diminishing Marginal Utility. | | | |
| | Indifference curve analysis – consumers" equilibrium – Revealed preference theory – Inverse demand function – consumer surplus-Application of consumer surplus- Deadweight loss – Slutsky"s decomposition of Price effect for Normal, Inferior and Giffen goods. | | | |
| III | Module – III | 15 | CO3 | K2,K4,K5 |
| | Production analysis – Factors of Production – Law of variable proportions – Law of Returns to scale – Isoquants – Producer's equilibrium- Cobb- Douglas production function – Economies and Diseconomies of scale – Supply – Producer's supply – Inverse supply function – Supply factors and constraints. | | | |

| IV | Module – IV Cost function – Types of Costs – Accounting and Economic costs, fixed, variable and sunk cost, Imputed cost, implicit and explicit cost – short run and long run costs- relationship between cost function and production function. Revenue function- Relationship between Price, elasticity and Marginal Revenue. | 15 | CO4 | K3,K4 |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----------|
| V | Module – V Market structure a. Perfect competition – Features – Determination of output, Price and Profit under perfect competition. b. Monopoly – Features – Determination of price, output and Profits under monopoly- Impacts of taxes on Monopoly price – Monopoly price discrimination – Dumping - Bilateral monopoly C. Monopolistic competition – Chamberlin's large group model – Price and non-price competition | 20 | CO5 | K4,K5,K6 |

Prescribed Books/Textbooks

- 1) Pindyck. R. S. and D.L. Rubinfeld, Micro Economics fifth edition prentice Hall 2004.
- 2) Hal. R. Varian, Intermediate Micro Economics, A modern approach W.W. Norton and Company / Affiliated East West Press (India) 8 th edition 2010

References

- 1) Gregory Mankiw.N, Principles of Microeconomics, south Western Cengage learning, 5 th edn
- 2) Case & Drinciples of Economics Myeconlab series 8 th Edn
- 3) Koutsoyiannis, Modern Microeconomics, Macmillan Education, 2 nd Edn

Suggested Reading

- 1. Dominick Salvatore, Micro economics Theory and Applications, Oxford University Press, 5 th Edn
- 2. Cullis & Discourse and Public choice, Oxford University Press 3 rd Edn

Web Resources

- 1) https://www.tutorialspoint.com/managerial_economics/theory_of_production.
- 2) https://www.economicscafe.com.sg/economics-lecture-notes-chapter-6/
- 3)https://www.yourarticlelibrary.com/economics/demand-and-law-of-demand-useful-notes-on-demand-and-law-of-demand-economics/10626
- 4)https://www.economicsdiscussion.net/consumer-behaviour/consumers-behaviour-cardinal-utility-analysis-explained-with-diagram/1111

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| | | | | | | Cou | ırse Articı | ılation M | atrix | | | | | |
|--------------------|---------------------------------------|-----|-----|-----|-----|-----|-------------|-----------|---------|----------|--------|----------------|------|-----------------|
| Course Outcomes | Programme Outcomes Programme Specific | | | | | | | | | | | | es | Cognitive Level |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO 1 | - | 3 | - | - | - | - | - | - | 3 | - | - | - | - | K1 |
| CO 2 | - | 3 | - | - | _ | - | - | - | 3 | - | 2 | - | - | K2 |
| CO 3 | - | 3 | 2 | 2 | - | - | - | - | 3 | _ | 2 | - | - | К3 |
| CO 4 | - | 3 | 2 | 2 | - | - | - | - | 3 | - | _ | 2 | - | K5 |
| CO 5 | - | 3 | 2 | 2 | - | - | - | - | 3 | _ | - | - | 2 | K4 |
| Wt. Avg. | - | 3 | 2 | 2 | _ | _ | - | - | 3 | - | 2 | 2 | 2 | |
| | ı | I | | I | l | I | Ove | rall Ma | pping o | of the (| Course | PO-2. PSO-2 | | |

LINEAR ALGEBRA FOR ECONOMICS

| Cour | rse Code | Will be allotted | by COE after the app | roval in | Academ | ic Council | | | | | |
|---------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------|--------|------------|--|--|--|--|--|
| C | redits | 5 | | | | | | | | | |
| Hour | s / Cycle | 5 | | | | | | | | | |
| Ca | tegory | Part III (a) | Core | • | Theory | | | | | | |
| | mester | I | | | | | | | | | |
| | ear of | From the acade | emic year 2023-2024 or | nwards | | | | | | | |
| Imple | mentation | | | | | | | | | | |
| Course | Objectives | In most economic analysis, variables are assumed to be related by sets of simultaneous linear equations. The objective of this paper is to make students understand the theory and applications of Linear Algebra in economic analysis. | | | | | | | | | |
| CO # | | Bloom's Taxonomy Levels (K1 to K5) | | | | | | | | | |
| On comp | pleting the co | urse successfully | , the student will be a | ble to | | | | | | | |
| CO 1 | Understand Matrix Alge | - | in Vector Spaces and | 1 | | K1 | | | | | |
| CO 2 | _ | - | economic problems in the economy over | 4,5 | | K2 | | | | | |
| CO 3 | Apply the Economics | concepts of | Linear Algebra to | 3 | | K3 | | | | | |
| CO 4 | | use of techniquence | nes of Linear Algebra conomics. | 3,4 | | K4 | | | | | |
| CO 5 | | and Estimate iques of Linear A | Economic problems algebra | 4 | | K5 | | | | | |
| | | | | | | | | | | | |

| | SYLLABUS | | | |
|------|----------|------|-----|---------|
| UNIT | CONTENT | HOUR | COs | BLOOM'S |
| | | S | | TAXONOM |
| | | | | Y LEVEL |

| I | | | CO1 | K1 |
|-----|------------------------------------------------------|----|-------------|-------------|
| | VECTOR ALGEBRA: Vectors – Field – Vector | | | |
| | addition and multiplication by scalars - inner | | | |
| | product of two vectors – Geometric interpretation – | 15 | | |
| | Vector Spaces - Linear dependence and | | | |
| | Independence – Basis – Span – Orthogonality – | | | |
| | Properties of Vector Space. | | | |
| II | | 20 | CO1,CO3 | K1, K3 |
| | MATRIX ALGEBRA: Introduction to matrix, | | , | , , , |
| | Types , Matrix operation- addition, subtraction, | | | |
| | matrix multiplication, Elementary Transformation – | | | |
| | row and column , Augmented matrix – Normal | | | |
| | form of a matrix – Row Echelon - Properties of | | | |
| | • | | | |
| | transpose, Determinants, Minors, cofactors, adjoint, | | | |
| | inverse, Solving simultaneous linear equations in | | | |
| | matrix form, Gaussian method, Inverse method | | | |
| | and | | | |
| | Cramer's rule. Application in to Economics : IS – | | | |
| | LM analysis – Market Equilibrium (Two products | | | |
| | and Three products markets only). | | | |
| III | INPUT – OUTPUT ANALYSIS: | 15 | CO2,CO5 | K2,K5 |
| | Rank of a matrix, Characteristic | | | |
| | Equation, Eigen values, Cayley – | | | |
| | Hamilton Theorem. Input – Output | | | |
| | model – Technological Coefficient | | | |
| | matrix, Open and Closed Input Output | | | |
| | models – Hawkins – Simon Conditions | | | |
| | Solution to Open Input –Output | | | |
| | model . | | | |
| | | | | |
| IV | I DULL D. DDOGDANG DEC. | 15 | CO2, CO4 | K2, K4 & K5 |
| | LINEAR PROGRAMMING: Mathematical | | &CO5 | |
| | Formulation, Graphic solutions, Extreme Point | | | |
| | Theorem , Slack and Surplus variables , Simplex | | | |
| | method (Two and Three variables only); The Dual | | | |
| | - Transformation of primal to Dual - The Duality | | | |

| | Theorem, Applications – Diet Problem. | | | |
|---|--------------------------------------------------|----|-------------------|-------------|
| V | TRANSPORTATION AND ASSIGNMENT | 10 | CO2, CO4 & CO5 | K2, K4 & K5 |
| | PROBLEM: Mathematical formulation of | | | |
| | Transportation Problem, Balanced and Un balanced | | | |
| | - Initial Basic Feasible Solution - North West | | | |
| | Corner Method; Least Cost Method; Vogel's | | | |
| | Approximation Method. Optimum solution by | | | |
| | MODI Method. Assignment Problem – structure – | | | |
| | optimum solution - Hungarian Assignment Method. | | | |
| | | | | |

Textbooks:

- 1. Seymour Lipschutz & Marc Lipson "Linear Algebra" Schaums Outline Series, 2017.
- 2. Hadley, G. "Linear Algebra", Addison-Wesley, Delhi, 1987.
- 3. Mehta .B.C. & G.M.K. Madnani "Mathematics For Economists". Sultan Chand and Sons, 2003.

Suggested Reading

- 1. Knut Sydstaeter & Peter J. Hammond, "Mathematics for Economic Analysis", Pearson Edition, 2002.
- 2. S. H. Friedberg, A. L. Insel and L. E. Spence, "Linear Algebra", Prentice Hall of India,

New Delhi, 2004.

References:

- 1. Edward T. Dowling, Theory and Problems of Mathematics for Economists, Schaum's Outline Series, McGraw Hill, New York.
- 2. Alpha C Chiang & Kevin Walnwright, "Fundamental Methods of Mathematics For Economics", McGraw Hill, New York. 4th Edition 2005
- 3. Gupta .P.K. & Manmohan, "Problems in Operations Research", Sultan Chand and Sons , 1992

Web Resources

- 1. https://joshua.smcvt.edu/linearalgebra/book.pdf
- 2. https://www.geneseo.edu/~aguilar/public/assets/courses/233/main_notes.pdf

3. http://www.stat.uchicago.edu/~lekheng/courses/309f11/theil.pdf

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|----------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|---------|------------|---------|------|-----------------|
| Course | Programme Outcomes | | | | | | | | | P | rogramm | e Specific | Outcome | es | |
| Outcomes | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 2 | 2 | - | - | - | - | - | - | - | 2 | - | - | - | - | K1 |
| CO 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | - | - | - | 3 | 3 | K2 |
| CO 3 | - | 3 | 3 | - | - | - | - | - | - | - | - | 3 | - | - | K3 |
| CO 4 | 3 | 3 | 3 | - | - | - | 3 | 3 | 3 | - | - | 3 | 3 | - | K4 |
| CO 5 | 3 | 3 | 3 | - | - | - | 3 | 3 | 3 | - | - | - | 3 | - | K5 |
| Wt. Avg. | 2.75 | 2.8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | - | 3 | 3 | 3 | - |
| | Overall Mapping of the Course | | | | | | | | | | | | | .8 | |

| Cou | ırse Code | | INDIAN ECC | NOM | Y - STRU | CTURE |
|--------|-------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|---------|---------------------------|--------------------------------------------------------------------|
| (| Credits | FIVE (5) | | | | |
| Hou | rs / Cycle | SIX (6) | | | | |
| C | ategory | Part - III | Allied - 1 | | Theory | |
| | emester | ONE (1) | | | | |
| | lear of | From the acade | emic year 2023 - 2024 o | nwards | 3 | |
| Imple | ementation | | | | | |
| Course | e Objectives | To enable the st To focus on few | the various issues and condents to realize the proving important legislations implementation of the so | oblems: | facing the urse of act | economic sectors ion in Indian economy ework of the Indian economy |
| CO # | | Course Outco | ome(s) | | PSO ressed | Bloom's Taxonomy Levels (K1 to K5) |
| On cor | npleting the o | course successfu | lly, the student will be | able to | | |
| CO 1 | | | economy during the e of Independence. | PSO 1 | | K1 |
| CO 2 | | the student to the of the Indian eco | e basic characteristics onomy. | PSO 2 | 2 | K2 |
| CO 3 | | the students aborn the Indian econ | ut the five year plans omy | PSO 4 | 1 | K3 |
| CO 4 | Comprehend components globalization | liberalization, | nomic Policy and its privatization and | PSO 4 | | K4 |
| CO 5 | Develop the economic gre | e arguments fowth after liberal | or and against on ization | PSO 3 | 3 | K5 |

| | SYLLABUS | | | |
|------|-------------------------------------------------------|-------|-----------------|------------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S |
| | | | | TAXONOMY |
| | | | | LEVEL |
| I | Overview of Indian economic development in | 12 | CO 1 | K 1 |
| | colonial period – industry – decline of handicrafts - | | & | |
| | agriculture – land tenure systems - effect of | | CO 2 | |
| | railways- drain of resources by Britain - Indian | | | |
| | economy at the time of Independence. | | | |
| | | | | |
| II | Characteristics of Indian Economy - Natural | 12 | CO 2 | K2 |
| | Resources - Land, Water and Forest Resources - | | | |
| | Population – Size and Growth rates, Sex | | & | |
| | Composition – Rural Urban Migration – | | | |
| | Occupational Distribution – Problems of Over | | CO ₃ | |
| | population – Population Policy – Infrastructural | | | |
| | Development - Unemployment and Mass Poverty. | | | |
| | Structural change in Indian economy – Sectoral | | | |
| | Composition of NI -Dimensions of Indian economy | | | |
| | as an emerging economy. | | | |

| III | The arguments for planning in the Indian context - Five Year Plans – goals of Five Year Plans – growth – modernization – self-reliance – equity – role of state – the role of Planning Commission. | 12 | CO 3 & CO 4 | К3 |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------|----|
| IV | The crisis of 1991- response to crisis – New Economic Policy – Components of New Economic Policy – liberalization – privatization – globalization policy – replacement of Planning Commission with NITI Ayog. | 12 | CO 4 | K4 |
| V | Economic growth after liberalization – driving factors of high growth rates- agriculture- Public investment in agriculture – impact of trade liberalization on agriculture – agricultural production since 1991 – Industry – disinvestment and privatization – arguments for and against privatization – de-reservation for small scale industries – FDI – impact on Indian industrial development. | 12 | CO 5 | K5 |

Prescribed Books/Textbooks

- 1. Uma Kapila (Ed.) Indian Economy Since Independence, 28th Edition, Academic Foundation, New Delhi, 2017.
- 2. Dutt. R. and Sundaram, K. P. M. Indian Economy, 62nd Edition, S. Chand & Sons, New Delhi. 2015

References

- 1. Agrawal. M.K. and Agrawal A.N.(2015). Indian Economy: Problems of Development and Planning, New Age International Publishers, New Delhi.
- 2. Ahluwalia, I. J. and IMD Little (Eds.) (1998), India"s Economic Reforms and Development, Oxford University Press, New Delhi.
- 3. Byres, T.J. (Ed.) (1997), The State, Development Planning and Liberalization in India, Oxford University Press, New Delhi.
- 4. Jalan, B. (2016). The Indian Economy: Problems and Prospects. Viking. New Delhi.

Suggested Reading

- 1. Dhingra, I.C. (2006). The Indian Economy: Environment and Policy, S Chand & Sons, New Delhi.
- 2. Gupta,S.P., (1989). Planning and Development in India: A Critique. Allied Publishers Private Limited, New Delhi.

Web Resources

http://planningcommission.gov.in

http://civilaviation.nic.in http://mohfw.nic.in http://www.indianrailways.gov.in

http://rural.nic.in http://morth.nic.in http://shipping.gov.in

http://ssi.gov.in http://ssi.gov.in http://commin.nic.in

| | Course Articulation Matrix | | | | | | | | | | | | | |
|----------|-----------------------------------------------------|---|-----|---|-----|------|------|-------|---------------------|---------|------------|--------|------|-----------------|
| Course | Programme Outcomes | | | | | | | | | rogramm | e Specific | Outcom | ies | Cognitive Level |
| Outcomes | PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PSO1 PSO2 PSO3 PSO4 | | | | | PSO4 | PSO5 | | | | | | | |
| CO 1 | 1 | 2 | 3 | - | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | K1 |
| CO 2 | 1 | 2 | 2 | - | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | K2 |
| CO 3 | 1 | 2 | 3 | - | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | К3 |
| CO 4 | 1 | 2 | 2 | - | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | K4 |
| CO 5 | 1 | 2 | 2 | - | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | K5 |
| Wt. Avg. | 1 | 2 | 2.4 | - | 2.2 | 2.2 | 1.8 | 2.2 | 2 | 2.4 | 2.4 | 2.4 | 2.4 | |
| | • | | | • | | | • | Overa | ll Map _l | ping of | the Co | ourse | 2.11 | |

Course title: Introduction to Game Theory

| Course Code | | | | | | | | |
|-------------------|-----------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Credits | 5 | | | | | | | |
| Hours / Cycle | 6 | | | | | | | |
| Category | Part III b | Allied | Theory | | | | | |
| Semester | II | | | | | | | |
| Year of | From the acad | From the academic year2023-24 onwards (this is required as | | | | | | |
| Implementation | some of the co | some of the courses may not be revised during particular revision) | | | | | | |
| Course Objectives | interact 2. To equi strategi 3. To appl | ions in economic the students with the convironment. | the nature of strategic interdependence in agent leory. oretical tools to make effective decisions in ined during the course in solving real world | | | | | |

| CO # | Course Outcome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) |
|---------|---------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|
| On comp | pleting the course successfully, the student will be al | ole to | |
| CO 1 | Appreciate the nature strategic of interactions among economic agents and challenges it causes for economic modelling. | PSO 1 & PSO 3 | K1 |
| CO 2 | Gain knowledge about the formal theoretical tools to model strategic interdependence in economics. | PSO 3 &PSO 2 | K2 |
| CO 3 | Analyse different types of game theoretic scenarios arising out of agent interactions. | PSO 3 & PSO 4 | K3 |
| CO 4 | Apply game theoretical models to solve market outcomes | PSO 3 ,PSO 4 &PSO 5 | K4 |
| CO 5 | Build a rigorous platform to learn advanced microeconomics and other fields of strategic interactions in economic theory. | PSO 3 & PSO 5 | K5 |

| | SYLLABUS | | | |
|------|------------------------------------------------------|-------|------|----------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S |
| | | | | TAXONOMY |
| | | | | LEVEL |
| I | Preliminary concepts-Decision making under | 10 | CO 1 | K1&K2 |
| | strategic interdependence-Strategies and Payoff | | & CO | |
| | functions- types of games- Zero sum games and | | 2 | |
| | general sum games- two person and n person games- | | | |
| | non-cooperative and cooperative game theory – | | | |
| | rationality in game theory – Common knowledge | | | |
| | rationality- Game theoretic revolution in economics. | | | |

| II | Classical normal form games- Assumptions – Nash | 15 | CO 2 | K 2 & K 3 |
|-----|----------------------------------------------------|----|-----------------|--------------|
| | Equilibrium – Principle of dominance- Weak | | | |
| | dominance and strong dominance-Best response | | & | |
| | functions- Finding Nash Equilibria using iterated | | | |
| | elimination of dominated strategies and best | | CO ₃ | |
| | response functions- Prisoner's Dilemma- Battle of | | | |
| | Sexes- Chicken Game- Stag Hunt -Cournot's model | | | |
| | of oligopoly-Bertrand's model of Oligopoly. | | | |
| III | Randomization of strategies- von Neumann and | 20 | CO 2, | K 2, K3 & K4 |
| | Morgenstern (vNM) preferences –expected value of | | CO 3 | |
| | a payoff function – strategic game with vNM | | & CO | |
| | preferences – mixed strategy profile – Mixed | | 4 | |
| | strategy Nash Equilibrium – Finding mixed strategy | | | |
| | Nash Equilibria – Zero sum games –minimax | | | |
| | theorem – value of a zero sum game – Examples of | | | |
| | mixed strategy Nash Equilibrium. | | | |
| IV | Games in extensive form with complete information | 15 | CO 2, | K2, K3 & K4 |
| | (GEFCI) – structure of GEFCI – Backward | | | |
| | induction – Common Knowledge Rationality – | | CO 3, | |
| | Credible threats and promises-Criticisms of | | | |
| | backward induction – Ultimatum game and | | CO 4 | |
| | Centipede game - Sub game perfection - | | | |
| | Rubenstein's bargaining model – Repeated games – | | | |
| | Iterated Prisoner's Dilemma. | | | |
| V | Random events and incomplete information – | 15 | CO 4 | K 3 & K 5 |
| | Bayesian Games – Bayesian normal form – | | | |
| | Bayesian Nash Equilibrium and Rationalizability – | | & CO | |
| | Examples- Market for Lemons – Auctions – second | | _ | |
| | price auctions. | | 5 | |
| | | | | |

Prescribed Books/Textbooks

- 1. Osborne, Martin J (2012) An Introduction to Game Theory, Oxford University Press, India
- 2. Watson, Joel (2013) Strategy: An Introduction to Game Theory, Third edition, W.W.Norton& Company
- 3. Dixit, A.K., Susan Skeath and David H Reiley (2015) Games of Strategy, Fourth Edition, W.W.Norton & Company.

References

- 1. Hargreaves, H. Shaun and Varoufakis, Yanis (2004) Game Theory: A Critical Text, Routledge
- 2. Gintis, H. and Schecter, S. (2016). Game Theory in Action: An Introduction to Classical and Evolutionary Models, Princeton University Press

Suggested Reading

- 1. Dixit, Avinash and Nalebuff, Barry (2008) The Art of Strategy: A Game Theorist's Guide to Success in Business and Life, W.W.Norton & Company
- 2. Schelling, Thomas C (1980) The Strategy of Conflict, Harvard University Press.
- 3. Axelrod, Robert (1984) The Evolution of Cooperation, Basic Books

Web Resources

- 1. https://cgi.csc.liv.ac.uk/~rahul/bimatrix_solver/
- 2. https://mindyourdecisions.com/GameSolver.html
- 3. https://ocw.mit.edu/courses/14-12-economic-applications-of-game-theory-fall-2012/

| | | | | | | | Course | Articula | ation Mat | rix | | | | |
|----------|-----------------------------------|---------|---------|--------|---------|---------|--------|----------|-----------|---------|----------|--------|----------|------------|
| Course | | | Pro | ogramı | ne Ou | tcome | 8 | | Pr | ogramme | Specific | Outcom | es | Cognitive |
| Outcomes | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO 5 | Level |
| CO 1 | | 3 | 2 | | | | | | 3 | | 3 | | | K 1 |
| CO 2 | | 3 | 2 | | | | | | | 2 | 3 | | | K2 |
| CO 3 | | 3 | 2 | | 2 | 2 | | | | | 3 | 3 | | К3 |
| CO 4 | | 3 | 2 | | 2 | 2 | | | | | 3 | 3 | 3 | K4 |
| CO 5 | | 3 | 2 | 2 | 2 | 2 | | | | | 3 | | 3 | K5 |
| Wt. Avg. | | 3 | 2 | 2 | 2 | 2 | | | 3 | 2 | 3 | 3 | 3 | |
| | Overall Mapping of the Course 2.5 | | | | | | | | | | | | | |

PRINCIPLES OF ECONOMICS (GC)

| Cou | rse Code | 191EC1G01 (PR | RINCIPLES OF ECO | NOMICS) | |
|--------|----------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C | Credits | 2 | | (01.22.00) | |
| Hou | rs / Cycle | 4 | | | |
| Ca | ategory | Part | Elective | Theory | |
| | mester | I and II | | | |
| | ear of | From the acade | mic year 2023-24 onwa | ards | |
| Imple | mentation | | | | |
| Course | e Objectives | world are To help To enable demand, markets To enable | ound them works in an students understand the students to understand the students to understand the final students. It is students of this could be students of this could be students. | n economic cor he building blo erstand consum rm and provide rse understand | nics) to understand the how the ntext. cks of basic economic theory. ner behaviour, individual a general understanding of how how the economy in the ons of constraints it faces. |
| | | aggrega | ie works, based on the | broad conditio | |
| CO # | | Course Outco | me(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) |
| On com | pleting the co | urse successfully | , the student will be al | ole to | |
| CO 1 | Gain a basic | | of the subject matter | PSO-1 | K1 |
| CO 2 | | onomy arrives at | markets function and a theoretical general | PSO-1, PSO-3 | K1 |
| CO 3 | Gain a maci | o understanding | or perspective of the and interpret key roeconomics. | PSO-1 | K1 |
| CO 4 | Examine ho | | | | K4 |
| CO 5 | functions, b | | how the real-world market imperfections s. | PSO-1, PSO-3 | K4 |

| | SYLLABUS | | | | | | | | | |
|------|----------------------------------------------|-------|-----------------|---------------------|--|--|--|--|--|--|
| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY | | | | | | |
| | | | | LEVEL | | | | | | |
| I | MODULE I: INTRODUCTION TO | 12 | CO1, | K1, K4 | | | | | | |
| | ECONOMICS | | CO2, | | | | | | | |
| | The Scope and Method of Economics - The | | CO ₄ | | | | | | | |
| | Economic Problem: Scarcity and Choice, | | | | | | | | | |
| | Demand and Supply and Market Equilibrium - | | | | | | | | | |
| | Demand and Supply Applications – Elasticity. | | | | | | | | | |

| II | MODULE II: THE MARKET SYSTEM: CHOICES MADE BY HOUSEHOLDS AND FIRMS Household Behaviour and Consumer Choice – The Production Process: The Behaviour of Profit-Maximising firms – Short-run costs and Output Decisions, Long-run costs and Output Decisions, Long-run costs and Output Decisions – Input Demand: The Labour and Land Markets Input Demand: The Capital Market and the Investment Decision – General Equilibrium and the Efficiency of Perfect Competition. | 12 | CO2, CO4, CO5 | K1, K4 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------|--------|
| III | MODULE III: MARKET IMPERFECTIONS AND ROLE OF GOVERNMENT Monopoly and Antitrust Policy – Oligopoly – Monopolistic Competition Externalities – Public Goods and Social Choice – Uncertainty and Asymmetric Information – Income Distribution and Poverty – Public Finance – The Economics of Taxation. | 12 | CO2, CO4, CO5 | K1, K4 |
| IV | MODULE IV: CONCEPT AND PROBLEMS IN MACROECONOMICS Introduction to Macroeconomics – Measuring National Output and National Income, Unemployment, Inflation and Long-Run Growth | 12 | CO1, CO3 | K1 |
| V | MODULE V: THE CORE OF MACROECONOMIC THEORY Aggregate Expenditure and Equilibrium Output – The Government and Fiscal Policy The Money Supply and the Federal Reserve System – Money Demand and the Equilibrium – Aggregate Demand in the Goods and Money Markets – Aggregate Supply and the Equilibrium Price Level – The Labour Market in the Macro Economy. | 12 | CO1, CO2, CO3 | K1 |

Prescribed Books/Textbooks:

Gregory Mankiw (2013), "Principles of Economics", 7th Edition Cengage Learners, Stanford.

Kooutsoyiannis (2012). Modern Micro Economics, Macmillan Publishers, New Delhi.

Stonier, Alfred W and Douglas C Hague, A Text Book of Economic Theory, Longman, London, 2000.

References:

Sowell, T. (2004). Basic economics: a citizen's guide to the economy. Rev. and expanded ed. New York, Basic Books.

Salvatore, Dominick (2003). Schaum's outline of theory and problems of principles of economics Mc-Graw Hill.

Mankiw, N. G. (2016). Principles of microeconomics (8th ed.). CENGAGE Learning Custom Publishing.

Suggested Reading:

Hazlitt, H. (1981). Economics in one lesson. Three Rivers Press.

| Course | A: | 1 - 4: | N/ - + ! |
|--------|----|--------|----------|
| | | | |

Raworth K.(2017). Doughnut economics: Seven ways to think like a 21st-century economist. Randomhouse

Web Resources (3-5)

https://www.khanacademy.org/ https://www.economicshelp.org/ https://www.freeeconhelp.com/

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| Course | | Programme Outcomes | | | | | | | Programme Specific Outcomes | | | | Comitina I and | | |
|----------|-------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----------------------------|------|------|------|----------------|------|-----------------|
| Outcomes | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 2 | 3 | | | | | | | | 3 | | | | | K1 |
| CO 2 | 2 | 3 | | | | | | | | 2 | 3 | | | | K1 |
| CO 3 | 2 | 3 | | | | | | | | 3 | | | | | K1 |
| CO 4 | 2 | 3 | | | | | | | | 2 | 3 | | | | K4 |
| CO 5 | 2 | 3 | | | | | | | | 2 | 3 | | | | K4 |
| Wt. Avg. | 2 | 3 | | | | | | | | 2.4 | 3 | | | | |
| | Overall Mapping of the Course | | | | | | | | 2 | .6 | | | | | |

SEMESTER -II

MICRO ECONOMIC THEORY II

| | 0.1 | | | | i |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|---------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------|
| | irse Code | | | | |
| Credi | | | | | |
| | rs / Cycle | D | C | h r 1 | |
| | ategory | Part | Core | Theory | |
| Year | emester | II From the acade | emic year 2023-2024 on | warde (this is re | equired as some |
| | | | • | ` | • |
| Implementation Course Objectives On completion of the course on Microeconomic theory II students should learn all the st the players in oligopoly market structure and monopolistic market. Students should knowledge about consumer behavior when there is asymmetric information. They also g the microeconomic foundations for microeconomic systems through general equilibrium and the structure and monopolistic market. | | | | | lents should learn all the strategies of c market. Students should also get c information. They also get to know |
| CO# | | Course Outco | ome(s) | PSO | Bloom's Taxonomy Levels |
| | | Course Oute | Sinc(0) | Addressed | (K1 to K5) |
| On comp | oleting the co | urse successfully, | , the student will be abl | e to | |
| CO 1 | Understand h | now the oligopoly | market structure works | PSO 1 | K2 |
| | and to trace | U 1 • | t of oligopoly models | PSO 3 | N2 |
| CO 2 | Apply the pricing for al | | ivity theory of factor | PSO 3 | К3 |
| CO 3 | Generalize th | ne micro economio | principles for | PSO3 | K1 |
| | | | orium models using entify the difficulties | PSO 5 | |
| CO 4 | | | rom classical school to and Value Judgement | PSO 3 PSO 4 | K5 |
| | | | tric information | PSO 3 | K4 |

| | SYLLABUS | | | | | | | | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-------------------------------|--|--|--|--|--|
| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOM Y LEVEL | | | | | |
| I | Module – I Market Structure- Oligopoly a. Non-collusive oligopoly – Cournot, Bertrand, Chamberlin, Sweezy, Edgeworth and Stackelberg models. b. Collusive oligopoly – cartels – OPEC Cartel, Gold Cartel- Price Leaderships – Low Cost and Dominant Price Leadership | | CO1 | K2,K3 | | | | | |
| II | Module -II Factor pricing theories Demand for and supply of factors – Characteristics of factors – a)Land- Pricing of land –Ricardo's theory of rent, Quasi rent-Economic rent –b)Labour-Factor markets with monopsony power-Factor market with monopoly market- Pricing of Labour – Marginalistic pricing principle for wages – c)Interest-Theories of Interest – Loanable funds theory – Abstinence theory – Liquidity preference theory – NPV criteria for capital investment-d)Profits-Theories of Profit –Innovation theory – Risk bearing | | CO2 | K3 | | | | | |

| | theory – theory of uncertainty. | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|-------|
| III | Module -III General equilibrium Walrasian theory – 2x2x2 model – Edgeworth Box diagrams- Pareto optimality conditions for allocation of resources – Euler's Product exhaustion theorem – Factor Prices and Income distribution. | | CO3 | K2,K4 |
| IV | Module- IV Welfare criteria Classical -Neo Classical welfare criteria – Pigou's welfare criteria-Pareto's criteria – Kaldor Hicks compensation criteria – Bergson Samuelson's social welfare function -Arrow's Impossibility theorem –Second best solution- Value judgment. | 13 | CO4 | K2,K3 |
| V | Module V Markets with asymmetric information Market signaling-Adverse selection-Moral hazard-The principal- agent problem-Managerial incentives in integrated firm-Asymmetric information in labour | | CO 5 | K2,K5 |

Prescribed Books/Textbooks

- 1. Pindyck. R. S. and D.L. Rubinfeld, Micro Economics fifth edition prentice Hall 2004.
- 2. Hal. R. Varian, Intermediate Micro Economics, A modern approach W.W. Norton and Company / Affiliated East West Press (India) 8 th edition 2010

References

- 1. Gregory Mankiw.N, Principles of Microeconomics, south Western Cengage learning, 5 th edn
- 2. Case & Fair ,Principles of Economics Myeconlab series 8 th Edn
- 3. Koutsoyiannis, Modern Microeconomics, Macmillan Education, 2 nd Edn

Suggested Reading

- 1. Dominick Salvatore, Micro economics Theory and Applications, Oxford University Press, 5 th Edn
- 2. Cullis & Jones, Public finance and Public choice, Oxford University Press 3 rd Edn

Web Resources

- 1)https://www.yourarticlelibrary.com/economics/the-concept-of-social-welfare-propounded-by-a-bergson/37642
- 2)https://www.economicsdiscussion.net/firm/general-equilibrium-theory-with-diagram/6002
- 3)https://www.economicsdiscussion.net/price/factor-pricing-concept-and-theories/3875

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| Programme Outcomes | | | | | | | | | Programn | es | Cognitive Level | | |
|--------------------|-----|-----------|--------------------------|-----------------|-----|------------------------------------------|-----|-------------------------------------------------------------|--------------|-----------------|---------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| - | 3 | _ | - | - | - | - | 3 | 3 | - | 2 | - | - | K2 |
| - | 3 | - | - | - | 2 | - | - | _ | - | 2 | - | - | K3 |
| _ | 3 | 1 | - | 2 | 2 | 1 | 2 | - | _ | 3 | - | 1 | K1 |
| - | 3 | 1 | - | 2 | 2 | 1 | 2 | - | _ | 2 | 1 | _ | K5 |
| - | 2 | - | - | 2 | 2 | 1 | 3 | - | - | 2 | - | 1 | K4 |
| | 2.8 | 1 | - | 2 | 2 | 3 | 2.5 | 3 | _ | 2.2 | 1 | 1 | |
| | | 3 3 3 3 2 | 3 - 3 1 3 1 2 - | 3 3 1 - 3 1 - 2 | 3 | 3 2 3 1 - 2 2 3 1 - 2 2 2 2 2 2 | 3 | 3 3 3 2 3 3 1 - 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 3 | 3 3 3 3 3 | 3 3 3 3 3 3 3 3 | 3 2 2 3 1 - 2 2 1 2 3 3 1 - 2 2 1 2 2 2 2 1 3 - 2 2 2 1 2 - 2 | 3 2 2 3 - 3 - 2 3 - 3 | 3 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - |

| Cour | rse Code | CALCULUS FOR ECONOMICS | | | | | | | | | | |
|-------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------|---------------|---------------------------------------|--|--|--|--|--|--|
| С | redits | | | | | | | | | | | |
| Hour | s / Cycle | 06/ 15 | | | | | | | | | | |
| Category | | Part | Core | Theory | | | | | | | | |
| | mester | | | | | | | | | | | |
| | ear of mentation | From the academic year 2023-24 onwards (this is required as some of the courses may not be revised during particular revision) | | | | | | | | | | |
| Course Objectives | | Calculus provides the language of economics and the means by which economists to solve the problems. Calculus is especially significant in illustrating key principles of economics. It focuses heavily on functions and derivative. Functions examine the relationship between two or more variables or entities that take in different values. | | | | | | | | | | |
| CO # | | Course Outco | ome(s) | | PSO ressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | | |
| On comp | pleting the co | urse successfully | , the student will be al | ole to | | | | | | | | |
| CO 1 | understand in economi | | cal operations used | PS | SO 1 | K1 | | | | | | |
| CO 2 | | | rams in economics | PS | SO 2 | K2 | | | | | | |
| CO 3 | analyze the | e consumers' be | ehaviour | PSO 3 K3 | | | | | | | | |
| CO 4 | build an ec | | with the help of | PS | K4 | | | | | | | |
| CO 5 | | ne Consumer's n mathematical | and producers' | PS | SO 5 | K5 | | | | | | |

| | SYLLABUS | | | |
|------|-----------------------------------------------------------|-------|-----|---------|
| UNIT | CONTENT | HOURS | COs | |
| | | | | TAXONOM |
| | | | | Y LEVEL |
| Ι | Definition of a set, Different types of a set, Operations | 15 | CO1 | K1& K2 |
| | on Set(Basic Idea Only), Conecpts of range, domain, | | | |
| | Mapping: The Plane, Cartesian Product:Concept of | | | |
| | euclidean space, Points and lines in Euclidean space. | | | |
| | Relations: Functions, onr to one and onto function, the | | | |
| | inverse function. Types of functions: Quatradic, | | | |
| | Polynomial, Power, Exponential, Logarithmic: Graphs- | | | |
| | Line, curves, Slope, Tangent, Graphs of linear functions, | | | |
| | Non-Linear functions, Applications into Economics: | | | |
| | Market Equilibrium, Break-Even Point. | | | |

| II I | Limits and continuity- Differentiablity of a function, - | 15 | CO1 | K1, K3 & K4 |
|------|---------------------------------------------------------------------------------------------------------|----|-----------------|--------------|
| S | Slope of a curve-Increasing and decreasing fucntion- Simple rules of differentiation; Application of | | CO2 | |
| | differentiation in economics-Calculation of marginal | | | |
| | cost,avarege costMarginal and average revenue from | | | |
| t | he respective total and cost and revenue functions- | | | |
| | Elasticity:types-calculation of price- income elasticity | | | |
| | of demand –Subituttes and complements-Relationships | | | |
| | between AR & MR and Price elasticity of demand- | | | |
| | Relationship between average and marginal cost. Second Order Derivatives- Convex and Concave | | | |
| | functions-maximisation and Minimisation of a function | | | |
| _ | - Economic Applications- output- Sales, | | | |
| r | evenuemaximisation- profit Maximisation under | | | |
| r | perfect competition, Monopoly, Discriminating | | | |
| | monopoly etc, Cost Minimisation- Effect of Taxation. | | | |
| III | Partial Differentiation: Partial derivates- Second order | 15 | CO2 | K2,K3 & K4 |
| | partial derivatives- total and partial Diffential- Total | | & | |
| _ | derivatives-implicit functions rules-economic | | 001 | |
| | applications-marginal productivity- Partial Elasticities, | | CO3 | |
| | Cross partial elasticities – Prodcution function- | | | |
| | Homonegeous and non-Homogeneous –Euler Theorem-Cobb-Douglas-CES production function. | | | |
| IV | Theorem-Cobb-Douglas-CES production function. | 15 | CO2 | K2, K3,K4, & |
| | Unconstrained – Constrained Optimisation: | | & | K5 |
| | Optimisation with two variables: output, revenue, | | CO ₅ | |
| | profit maximisation under perfect competition – | | | |
| | profit maximisationunder monopoly- oligopoly and duoploy markets. Constrained optimisation: | | | |
| | Lagrangian Multiplier- The Hessian and Bordered | | | |
| | Hessian method of optimisation- Numerical | | | |
| | problems of utility, output, Sales, revenue and profit | | | |
| | maximisation under different market conditions. | | | |
| V | Integral calculus: Rules of Integration- Integration by | 15 | CO1 | K2, K4, K5 & |
| | substittion- Integration by parts- Define integrals- | | , | K6 |
| | Properties of definite integrals - Area under a curve- | | , | |
| | Economic Applications- Derivation of total functions (Total Output Payonus cost Utility etc.) | | CO2 | |
| | functions(Total Output, Revenue,cost, Utility etc) from thr marginal function- Profit Maximisation- | | & | |
| | Profit Minimisation-Consumer's and Producer's | | | |
| | Surplus. | | C04 | |
| | 1 | | 1 | i |

1. Allen, R.G.D., "Mathematical Analysis for Economists", First Edition, Macmillan and

Co. Ltd, 2008.

- 2. Chiang, A. C., "Fundamental Methods of Mathematical Economics", Fourth Edition, McGraw-Hill, 1984.
- 3. Hadley, G., "Linear Algebra Addison", First Edition, Wesley Publishing Company, 1977.

References (3-5)

- 1. Carl P Simon & Lawrence E. Blume., "Mathematics for Economists", First Edition, W. W. Norton & Company, 2010.
- 2. Edward T. Dowling., "Mathematical Methods for Business and Economics", Schaum's Outline Series, Third Edition, McGraw Hill, 2002.
- 3. Ian Jacques, "Mathematics for Economics and Business", Ninth Edition, Pearson, New Delhi, 2018.
- 4. Mehta and Madnani., "Mathematics for Economists", First Edition, Sultan Chand and Sons, New Delhi. 2019.
- 5. Renshaw Geoff., "Maths for Economics", Third Edition, Oxford University Press, Oxford, 2005

Suggested Reading (2-5)

- Mabett. Alan J., "Workout for Mathematics for Economist", First Edition, McMillan, 1986.
- Sydsaeter, K. and Hammond, P., "Mathematics for Economic Analysis", First Edition, Pearson Educational Asia, New Delhi 2002.

Web Resources (3-5)

- https://hummedia.manchester.ac.uk/school/soss/economics/pg/psmaths/presessionmathbook.pdf
- 2. https://mitpress.mit.edu/9780262046626/mathematics-for-economics/
- 3. https://mitpress.mit.edu/9780262294805/mathematics-for-economics/
- **4.** https://www.coursera.org/learn/mathematics-for-economists

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| Course Articulation Matrix | | | | | | | | | | | | | | | |
|-------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------------------------|------|------|------|-----------------|
| Course Outcomes | Programme Outcomes | | | | | | | | | | Programme Specific Outcomes | | | | |
| | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 3 | 3 | - | - | 2 | - | 2 | 1 | 2 | 3 | - | - | - | - | K1 |
| CO 2 | 3 | 3 | | 1 | 1 | 1 | - | - | - | - | - | - | - | 3 | K2 |
| CO 3 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | - | - | - | - | 3 | К3 |
| CO 4 | 3 | 3 | 2 | 2 | - | 2 | 2 | 2 | 2 | - | - | 3 | - | - | K4 |
| CO 5 | - | - | 3 | - | - | 3 | 3 | 3 | 3 | - | - | - | 3 | - | K5 & K6 |
| Wt. Avg. | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | - | 3 | 3 | 3 | |
| Overall Mapping of the Course | | | | | | | | | | 2. | 66 | | | | |

Course title: Introduction to Game Theory

| Course Code | | |
|-------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Credits | 5 | |
| Hours / Cycle | 6 | |
| Category | Part III b Allied | Theory |
| Semester | II | |
| Year of | From the academic year2 | 023-24 onwards (this is required as |
| Implementation | some of the courses may not be | e revised during particular revision) |
| Course Objectives | interactions in economi 5. To equip students with strategic environment. | oout the nature of strategic interdependence in agent ic theory. theoretical tools to make effective decisions in e gained during the course in solving real world |

| CO # | Course Outcome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) |
|--------|---------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|
| On com | pleting the course successfully, the student will be a | ble to | |
| CO 1 | Appreciate the nature strategic of interactions among economic agents and challenges it causes for economic modelling. | PSO 1 & PSO 3 | K1 |
| CO 2 | Gain knowledge about the formal theoretical tools to model strategic interdependence in economics. | | K2 |
| CO 3 | Analyse different types of game theoretic scenarios arising out of agent interactions. | PSO 3 & PSO 4 | K3 |
| CO 4 | Apply game theoretical models to solve market outcomes | PSO 3 ,PSO 4 &PSO 5 | K4 |
| CO 5 | Build a rigorous platform to learn advanced microeconomics and other fields of strategic interactions in economic theory. | | K5 |

| | SYLLABUS | | | |
|------|----------|-------|-----|----------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S |
| | | | | TAXONOMY |
| | | | | LEVEL |

| I | Preliminary concepts-Decision making under strategic interdependence-Strategies and Payoff functions- types of games- Zero sum games and general sum games- two person and n person games-non-cooperative and cooperative game theory – rationality in game theory – Common knowledge rationality- Game theoretic revolution in economics. | 10 | CO 1 & CO 2 | K1&K2 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------|--------------|
| II | Classical normal form games- Assumptions – Nash Equilibrium – Principle of dominance- Weak dominance and strong dominance-Best response functions- Finding Nash Equilibria using iterated elimination of dominated strategies and best response functions- Prisoner's Dilemma- Battle of Sexes- Chicken Game- Stag Hunt – Cournot's model of oligopoly-Bertrand's model of Oligopoly. | 15 | CO 2 & CO3 | K 2 & K 3 |
| III | Randomization of strategies- von Neumann and Morgenstern (vNM) preferences –expected value of a payoff function – strategic game with vNM preferences – mixed strategy profile – Mixed strategy Nash Equilibrium – Finding mixed strategy Nash Equilibria – Zero sum games –minimax theorem – value of a zero sum game – Examples of mixed strategy Nash Equilibrium. | 20 | CO 2, CO 3 & CO 4 | K 2, K3 & K4 |
| IV | Games in extensive form with complete information (GEFCI) — structure of GEFCI — Backward induction — Common Knowledge Rationality — Credible threats and promises-Criticisms of backward induction — Ultimatum game and Centipede game — Sub game perfection — Rubenstein's bargaining model — Repeated games — Iterated Prisoner's Dilemma. | 15 | CO 2, CO 3, CO 4 | K2, K3 & K4 |
| V | Random events and incomplete information – Bayesian Games – Bayesian normal form – Bayesian Nash Equilibrium and Rationalizability – Examples- Market for Lemons – Auctions – second price auctions. | 15 | CO 4 & CO 5 | K 3 & K 5 |

Prescribed Books/Textbooks

- 4. Osborne, Martin J (2012) An Introduction to Game Theory, Oxford University Press, India
- 5. Watson, Joel (2013) Strategy: An Introduction to Game Theory, Third edition, W.W.Norton& Company
- 6. Dixit, A.K., Susan Skeath and David H Reiley (2015) Games of Strategy, Fourth Edition, W.W.Norton & Company.

References

- 3. Hargreaves, H. Shaun and Varoufakis, Yanis (2004) Game Theory: A Critical Text, Routledge
- 4. Gintis, H. and Schecter, S. (2016). Game Theory in Action: An Introduction to Classical and Evolutionary Models, Princeton University Press

Suggested Reading

| | | | | | | | Course | e Articula | ation Mat | trix | | | | |
|----------|------------------------------------------------|---------|---------|---------|-------------|---------|--------|------------|-----------|------------|--------|------|----------|-------|
| Course | Programme Outcomes Programme Specific Outcomes | | | | | | | | Cognitive | | | | | |
| Outcomes | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO 5 | Level |
| CO 1 | | 3 | 2 | | | | | | 3 | | 3 | | | K1 |
| CO 2 | | 3 | 2 | | | | | | | 2 | 3 | | | K2 |
| CO 3 | | 3 | 2 | | 2 | 2 | | | | | 3 | 3 | | К3 |
| CO 4 | | 3 | 2 | | 2 | 2 | | | | | 3 | 3 | 3 | K4 |
| CO 5 | | 3 | 2 | 2 | 2 | 2 | | | | | 3 | | 3 | K5 |
| Wt. Avg. | | 3 | 2 | 2 | 2 | 2 | | | 3 | 2 | 3 | 3 | 3 | |
| | | I | | I | I | I | 0 | verall M | Iapping | g of the (| Course | 2. | .5 | |

Overall Mapping of the Course

- Dixit, Avinash and Nalebuff, Barry (2008) The Art of Strategy: A Game Theorist's Guide to Success in Business and Life, W.W.Norton & Company
- 5. Schelling, Thomas C (1980) The Strategy of Conflict, Harvard University Press.
- 6. Axelrod, Robert (1984) The Evolution of Cooperation, Basic Books

Web Resources

- 4. https://cgi.csc.liv.ac.uk/~rahul/bimatrix solver/
- 5. https://mindyourdecisions.com/GameSolver.html
- 6. https://ocw.mit.edu/courses/14-12-economic-applications-of-game-theory-fall-2012/

PRINCIPLES OF ECONOMICS (GC)

| Cou | rse Code | 404E04004 (B) | NAME OF SOME | NOMIOS: | | | | | |
|--------|-------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| | redits | 191EC1G01 (PI | RINCIPLES OF ECO | NOMICS) | | | | | |
| | rs / Cycle | 4 | | | | | | | |
| | itegory | Part Elective Theory | | | | | | | |
| | mester | I and II | Elective | Theory | | | | | |
| | ear of | | emic year 2023-24 onwa | arde | | | | | |
| | mentation | 1 Tom the acade | .1111c year 2025-24 011wa | itus | | | | | |
| Course | Objectives | world ar To help To enable demand markets To enable | ound them works in ar students understand the le the students to under , utility, goals of the fir function. the students of this coun | n economic cont the building block erstand consume rm and provide a rse understand h | ics) to understand the how the ext. ks of basic economic theory. er behaviour, individual general understanding of how low the economy in the as of constraints it faces. | | | | |
| CO # | | Course Outco | | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) | | | | |
| On com | pleting the co | urse successfully | , the student will be ab | | | | | | |
| CO 1 | Gain a basic | | of the subject matter | PSO-1 | K 1 | | | | |
| CO 2 | | onomy arrives at | markets function and a theoretical general | PSO-1, PSO-3 | K 1 | | | | |
| CO 3 | Gain a macreeconomy | o understanding | or perspective of the and interpret key roeconomics. | PSO-1 | K1 | | | | |
| CO 4 | Examine ho | w individuals ar | nd groups make basic n the constraints they | PSO -1 PSO-3 | K4 | | | | |
| CO 5 | Understand functions, b | | how the real-world market imperfections es. | PSO-1, PSO-3 | K 4 | | | | |

| | SYLLABUS | | | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------|------------------------------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
| I | MODULE I: INTRODUCTION TO ECONOMICS The Scope and Method of Economics – The Economic Problem: Scarcity and Choice, Demand and Supply and Market Equilibrium – Demand and Supply Applications – Elasticity. | 12 | CO1, CO2, CO4 | K1, K4 |
| II | MODULE II: THE MARKET SYSTEM: CHOICES MADE BY HOUSEHOLDS AND FIRMS Household Behaviour and Consumer Choice – The Production Process: The Behaviour of Profit-Maximising firms – Short-run costs and Output Decisions, Long-run costs and Output Decisions – Input Demand: The Labour and Land Markets Input Demand: The Capital Market and the Investment Decision – General Equilibrium and the Efficiency of Perfect Competition. | 12 | CO2, CO4, CO5 | K1, K4 |
| III | MODULE III: MARKET IMPERFECTIONS AND ROLE OF GOVERNMENT Monopoly and Antitrust Policy – Oligopoly – Monopolistic Competition Externalities – Public Goods and Social Choice – Uncertainty and Asymmetric Information – Income Distribution and Poverty – Public Finance – The Economics of Taxation. | 12 | CO2, CO4, CO5 | K1, K4 |
| IV | MODULE IV: CONCEPT AND PROBLEMS IN MACROECONOMICS Introduction to Macroeconomics – Measuring National Output and National Income, Unemployment, Inflation and Long-Run Growth | 12 | CO1, CO3 | K1 |
| V | MODULE V: THE CORE OF MACROECONOMIC THEORY Aggregate Expenditure and Equilibrium Output - The Government and Fiscal Policy The Money Supply and the Federal Reserve System – Money Demand and the Equilibrium – Aggregate Demand in the Goods and Money Markets – Aggregate Supply and the Equilibrium Price Level – The Labour Market in the Macro Economy. | 12 | CO1, CO2, CO3 | K1 |

Prescribed Books/Textbooks:

Gregory Mankiw (2013), "Principles of Economics", 7th Edition Cengage Learners, Stanford.

Kooutsoyiannis (2012). Modern Micro Economics, Macmillan Publishers, New Delhi.

Stonier, Alfred W and Douglas C Hague, A Text Book of Economic Theory, Longman, London, 2000.

References:

Sowell, T. (2004). Basic economics: a citizen's guide to the economy. Rev. and expanded ed. New York, Basic Books.

Salvatore, Dominick (2003). Schaum's outline of theory and problems of principles of economics Mc-Graw Hill.

Mankiw, N. G. (2016). Principles of microeconomics (8th ed.). CENGAGE Learning Custom Publishing.

Suggested Reading:

Hazlitt, H. (1981). Economics in one lesson. Three Rivers Press. Raworth K.(2017). Doughnut economics: Seven ways to think like a 21st-century economist. Randomhouse

Web Resources (3-5)

https://www.khanacademy.org/ https://www.economicshelp.org/ https://www.freeeconhelp.com/

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|----------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|---------|------------|--------|------|------|------|-----------------|
| Course | Programme Outcomes | | | | | | | Р | rogramm | e Specific | Outcom | es | | | |
| Outcomes | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 2 | 3 | | | | | | | | 3 | | | | | K1 |
| CO 2 | 2 | 3 | | | | | | | | 2 | 3 | | | | K1 |
| CO 3 | 2 | 3 | | | | | | | | 3 | | | | | K1 |
| CO 4 | 2 | 3 | | | | | | | | 2 | 3 | | | | K4 |
| CO 5 | 2 | 3 | | | | | | | | 2 | 3 | | | | K4 |
| Wt. Avg. | 2 | 3 | | | | | | | | 2.4 | 3 | | | | |
| | Overall Mapping of the Course 2.6 | | | | | | | | | | | | | | |

SEMESTER -III

Course title: Macroeconomic Theory I

| Course Code | | | | | | | |
|-------------------|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Credits | 5 | | | | | | |
| Hours / Cycle | 6 | | | | | | |
| Category | Part III a Ma | ajor | Theory | | | | |
| Semester | III | | • | | | | |
| Year of | From the academic | year2024-25 | onwards (this is required as | | | | |
| Implementation | some of the courses | some of the courses may not be revised during particular revision) | | | | | |
| Course Objectives | level. 5. To equip stu macroecono | dents with theoretical my both at equilibrium knowledge gained du | nctioning of the economy at aggregate I tools to analyse the working of m and off equilibrium. Bring the course in explaining real world | | | | |

| CO# | Course Outcome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) |
|--------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|
| On com | pleting the course successfully, the student will be at | ole to | |
| CO 1 | Appreciate the nature interactions among economic units at macro level and challenges it causes for economic modelling. | PSO 1 & PSO 3 | K1 |
| CO 2 | Gain knowledge about the formal theoretical tools to model macroeconomy. | PSO 3 &PSO 2 | K2 |
| CO 3 | Analyse different types of theoretical frameworks existing in macroeconomic literature. | PSO 1 & PSO 2 | К3 |
| CO 4 | Apply macroeconomic models to explain aggregate outcomes | PSO 2, PSO 3 ,PSO 4 &PSO 5 | K4 |
| CO 5 | Build a rigorous platform to learn advanced macroeconomics and its extensions in economic theory. | PSO 3 & PSO 5 | K5 |
| | SYLLABUS | 1 | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|------------------------------|
| I | Basics of national income accounting – Circular flow of income and spending – Macroeconomic models – Endogenous and Exogenous variables in a model – stock and flow variables – Ex ante and ex post variables – Statics, comparative statics and dynamic approaches to macroeconomic modelling – Behavioural equations, technical equations, equilibrium conditions and identities in a macroeconomic model- causal structure of macroeconomic models. | 10 | CO 1- CO 5 | K1-K5 |

| П | Classical approach to macro economy – Quantity theory of Money – Fisher's equation of exchange and Cambridge approach to quantity theory – Say's Law of markets – Wage-price flexibility – role of money in classical model – Classical dichotomy and neutrality of money- Keynes' challenge to classical approach to macro economy – Keynes' criticism of classical quantity theory – Keynes' theory of demand for money – Motives for holding idle balances – Liquidity trap – Rigidities in Keynes' model – Keynesian psychological law of consumption and consumption function – Concept of multiplier – multiplier in closed and open economies – Concept of effective demand – Keynesian aggregate supply curve under the assumption of excess capacity in the economy – Underemployment equilibrium in Keynes' model. | 15 | CO 1- CO 5 | K1-K5 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------|-------|
| m | Integration of real and monetary sectors – IS-LM as neoclassical synthesis – Derivation of IS and LM schedules – Theoretical reason for the slope of IS-LM schedules – Shifts in IS-LM schedules – equilibrium in the closed economy – Equilibrium in the open economy – Equilibrium in the foreign exchange market – exchange rates and balance of payments – IS-LM-FE model (Mundell-Fleming model) – Fiscal and monetary policies under Mundell- Fleming model – Comparative statics versus adjustment dynamics – exchange rate expectations – Exchange rate overshooting . | 20 | CO 1- CO 5 | K1-K5 |
| IV | Subjective and objective factors influencing consumption – Keynes' absolute income hypothesis – results of short and cross section studies of Keynes' consumption function – Kuznets' study on the long run constancy of average propensity to consume – Attempts to reconcile short run and long run results of consumption function – Wealth as an explanatory variable in consumption function - Modigliani's Life Cycle Hypothesis (LCH) – Friedman's Permanent Income Hypothesis (PIH) - Policy implications of LCH and PIH - Duesenberry's Relative Income Hypothesis. | 15 | CO 1- CO 5 | K1-K5 |
| V | Classical theory of investment and the role of rate of interest – Role of expectations in Keynesian model of investment – Role of Animal spirits – Marginal Efficiency of Capital (MEC) – Net Present Value | 15 | CO 1- | K1-K5 |

| (NPV) – Keynes' idea of investment as a beauty | | |
|----------------------------------------------------|--|--|
| contest game – Neo-classical model of investment – | | |
| Accelerator model of investment. | | |
| | | |
| | | |

Prescribed Books/Textbooks

- 4. Snowden, Brian and Howard R Vane (2005) Modern Macroeconomics: Its Origins, Development and Current State, Edward Elgar
- 5. Gartner, Manfred (2003) Macroeconomics, Prentice Hall
- 6. Branson, William H and James M Litvack (1981) Macroeconomics, Harper and Row

References

- 1. Levacic, Rosalind and Alexander Rebmann (1982) Macroeconomics: An Introduction to Keynesian-Neoclassical Controversies, The Macmillan Press
- 2. Hansen, Alvin H (1953) A Guide to Keynes, McGraw Hill

Suggested Reading

- 4. Mankiw, Gregory N (2010) Macroeconomics, Worth Publishers
- 5. Akerlof, George A and Shiller, Robert (2009) Animal Spirits How Psychology Drives the Economy and Why it Matters for Global Capitalism, Princeton University Press
- 6. Carter, Zachary D (2020) The Price of Peace: Money, Democracy, and the Life of John Maynard Keynes, Penguin Random House
- 7. Skidelsky, Robert (2010) Keynes The Return of the Master, Public Affairs

Web Resources

- 1. https://www.core-econ.org/new-edition-of-the-economy/
- 2. https://www.macroscan.org/
- 3. https://ocw.mit.edu/courses/14-02-principles-of-macroeconomics-spring-2014/

| | | | | | | | Course | e Articula | ation Mat | rix | | | | |
|----------|---------|---------|---------|---------|----------|---------|--------|------------|-----------------------------|------------|--------|--------|----------|-------------|
| Course | | | Pro | ogramı | ne Ou | tcomes | S | | Programme Specific Outcomes | | | | | Cogniti |
| Outcomes | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO 5 | ve Level |
| CO 1 | 1 | 3 | 2 | | | | | | 3 | | 3 | | | K 1 |
| CO 2 | | 3 | 2 | | | | | | 3 | 2 | 3 | | | K2 |
| CO 3 | 1 | 3 | 2 | | 3 | 2 | | | 3 | 2 | 3 | 2 | | К3 |
| CO 4 | 1 | 3 | 2 | | 3 | 2 | | | 3 | 2 | 3 | 2 | 3 | K4 |
| CO 5 | | 3 | 2 | 2 | 3 | 2 | | | 3 | | 3 | | 3 | K5 |
| Wt. Avg. | 1 | 3 | 2 | 2 | 3 | 2 | | | 3 | 2 | 3 | 2 | 3 | |
| | | I | I | I | <u> </u> | | O | verall N | Iapping | g of the (| Course | P O 2. | 16/PSO | |

Overall Mapping of the Course P O 2.16/PSO 2.6

| Cou | rse Code | | DEVELOPMEN | T OF E | CONON | MIC IDEAS | | | | | | | |
|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------|--------------|---------------------------------------|--|--|--|--|--|--|--|
| | Credits | FIVE (5) | | | | | | | | | | | |
| Hou | rs / Cycle | SIX (6) | | | | | | | | | | | |
| | ategory | Part - III a | Core | | Theory | | | | | | | | |
| | emester | III | | | | | | | | | | | |
| | Year of ementation | From the acade | From the academic year 2024-2025 onwards | | | | | | | | | | |
| Course | e Objectives | Economic ideas originated from the philosophical thoughts of the people belonging to the Medieval times. In later times, economic ideas evolved in response to prevailing social and economic situations. This paper will aim at building such understanding among the undergraduate students of Economics. | | | | | | | | | | | |
| CO# | | Course Outco | me(s) | | SO ressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | | | |
| On con | npleting the o | course successful | ly, the student will be | able to | | | | | | | | | |
| CO 1 | Understand | the main econo | omic ideas of early, | PSO 1 | | K1 | | | | | | | |
| | classical an | d neo-classical sc | hool of thought | | | | | | | | | | |
| CO 2 | Understand | the theories dev | reloped by various the different school of | PSO 2 | | K2 | | | | | | | |
| CO3 | Learn the School of T | | nesien and Marxian | n PSO 4 K3 | | | | | | | | | |
| CO 4 | | ndian economic i | deas and thoughts by | PSO 4 | | K4 | | | | | | | |
| CO 5 | | contribution made | by Nobel Laureates | PSO 3 | | K5 | | | | | | | |

| SYLLABUS | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|------------------------------|
| UNIT CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
| I Economic ideas of the Hebrews – Economic ideas of Greco-Romans – Economic thought of Plato and Aristotle – Medieval economic thought of St. Thomas Aquinas - Economic ideas of Adam Smith: Division of labour, Theory of value, Capital accumulation, Distribution, Views on trade - David Ricardo: Theory of distribution and rent, Ideas of international trade – Thomas R. Malthus: Theory of Population, Theory of Gluts – Economic ideas of J.B. Say and J.S. Mill. Economic ideas of Walras, Jevons and Menger – Marginalism, characteristics and | 12 | CO 1- CO 5 | K1-K5 |

| II | economic ideas - Economic ideas of Alfred Marshall: Neo-Classicism - economic methods, elasticity, consumer surplus, costs and quasi-rent. School of Economics of Institutions: Main characteristics, Economic ideas of Veblen, Common and Mitchell - Economic thought of Gunnar Myrdal and Galbraith | 12 | CO 1- CO 5 | K1-K5 |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------|-------|
| Ш | Economic ideas of Karl Marx: Theory of value, Surplus value, Dynamics of social change. Economic ideas of Keynes: Aggregate economy, Liquidity Preference Theory, Liquidity Trap, Marginal Efficiency of Capital and Marginal Efficiency of Investment, Underemployment equilibrium, Wage rigidities, Role of fiscal policy. Multiplier principle, Cyclical behaviour of the economy | 12 | CO 1- CO 5 | K1-K5 |
| IV | Early economic ideas: Kautilya's Arthasasthra, Valluvar's Thirukural – Modern economic ideas: Naoroji, Ranade, Gokale, R.C.Dutt, M.N.Roy and Ambedkar – Gandhian economic thought: Village, Swedeshi, Cottage industries, Trusteeship - and J.C. Kumarappa's idea - Nehru-Mahalanobis approach. | 12 | CO 1- CO 5 | K1-K5 |
| V | Ragnar Frisch – Jan Tinbergen - Paul Samuelson – Simon Kuznets – Kenneth Arrow – Wassily Leontief - Milton Friedman – Arthur Lewis – Franco Modigliani – Robert Solow - Amartya Sen – Paul Krugman – Elinor Ostrom – Abhijit Banerjee – Esther Duflo – Michael Kremer. | 12 | CO 1- CO 5 | K1-K5 |

scribed Books/Textbooks

- William J. Barbar., A History of Economic Thought, Wesleyan University Press, 2015.
- Ernesto Screpanti and Stefano Zamagni., An Outline of the History of Economic Thought, Oxford University Press, 2012.

ierences

- Alexander Grey & Thomson A.E., The Development of Economic Doctrine, Longman Group, London, 1980.
- Ganguli B.N., Indian Economic Thought, A 19th Century Perspective, McGraw Hill, New Delhi, 1977.
- Hajela T.N., History of Economic Thought, Ane's Student Edition Ane Books, New Delhi, 2010.

ggested Reading

• Haney H.L., History of Economic Thought 4th Edition Oxford Press, 1990.

Schumpeter J.A., A History of Economic Analysis, Oxford Press, New York, 196.

b Resources

://planningcommission.gov.in ://civilaviation.nic.in http://mohfw.nic.in http://www.indianrailways.gov.in ://rural.nic.in http://morth.nic.in http://shipping.gov.in ://ssi.gov.in http://ssi.gov.in http://commin.nic.in

| | Course Articulation Matrix | | | | | | | | | | | | | |
|----------|----------------------------|-----|-----|---------|---------|-------|-----|-------|---------|-----------------|------|------|------|----|
| Course | | | F | Program | me Outo | comes | | P | rogramn | Cognitive Level | | | | |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO 1 | 1 | 2 | 3 | - | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | K1 |
| CO 2 | 1 | 2 | 2 | - | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | K2 |
| CO 3 | 1 | 2 | 3 | - | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | К3 |
| CO 4 | 1 | 2 | 2 | - | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | K4 |
| CO 5 | 1 | 2 | 2 | - | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | K5 |
| Wt. Avg. | 1 | 2 | 2.4 | - | 2.2 | 2.2 | 1.8 | 2.2 | 2 | 2.4 | 2.4 | 2.4 | 2.4 | |
| | I | | | | | | I | Overa | ll Map | ping of | the | PO = | 1.72 | |

Course

 $\underline{PSO} = 2.32$

| Cou | rse Code | | International Busines | SS | | | | | | | | |
|--------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|--|--|--|--|--|--|--|
| Credi | | | | | | | | | | | | |
| | rs / Cycle | | _ | | | | | | | | | |
| | ategory | Part | Part Core Theory | | | | | | | | | |
| | emester | | | | | | | | | | | |
| Year o | | From the academic year 2024-2025 onwards (this is required as some of the courses may not be revised during particular revision) | | | | | | | | | | |
| Imple | mentation | | | | | | | | | | | |
| Course | e Objectives | business terms and abilities to | This course is designed to help student understand the most widely used international business terms and concepts. This course will provide students with the knowledge, skills and abilities to understand the global, economic, political, cultural and social environment within which firms operate. | | | | | | | | | |
| CO# | | Course Outc | ome(s) | PSO | | | | | | | | |
| | | | () | Addressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | | | |
| On com | pleting the co | urse successfully | y, the student will be a | ble to | , | | | | | | | |
| CO 1 | Understand Internationa | the basic concept I Trade | s and theories in | PSO 1 | K1, K2 | | | | | | | |
| CO 2 | | the global capital I business operati | | PSO 1 | K1, K2 | | | | | | | |
| CO 3 | Understand the internation | | can be used to enter | PSO 1 K2 | | | | | | | | |
| CO 4 | Understand promotions | | stment and export | rt PSO 1 K5 | | | | | | | | |
| CO 5 | | the international d its developmen | organization's role, t. | PSO 4 | K4 | | | | | | | |

| | SYLLABUS | | | | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|--------------------------------|--|
| UNIT | CONTENT | HOURS | COs | BIOOM'S TAXONOM Y LEVELS | |
| I | UNIT I: INTRODUCTION Globalization-National Differences in Political Economy-Political Economy and Economic | | CO 1- CO 5 | K1-K5 | |
| | Development - Differences in Culture-Ethics in International Business- Patterns of Trade – Trade theory And Government Policy - Product Life Cycle Theory - New Trade Theory - National Competitive Advantage - Porter's Diamond. | | | | |
| | | | | | |

| П | UNIT II: THE GLOBAL CAPITAL MARKET Growth of Global Capital Market -The Euro market: Genesis and Growth - Attractions and Drawback of Euro market - Global Bond Market and Global Equity Market - Global Production, Outsourcing and Logistics - Global Marketing and R&D-Market Segmentation - Distribution Strategy- Communication Strategy - New Product Development | CO 1- CO 5 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Ш | UNIT III: STRATEGY AND STRUCTURE OF INTERNATIONAL BUSINESS Entry Strategies and Strategic Alliance – Exporting - Turnkey Projects – Licensing – Franchising - Joint Ventures - Wholly Owned Subsidiaries - Greenfield Ventures - Advantages and Disadvantages of Strategic Alliance - Types of Countertrade-Pros and Cons of Countertrade - Pricing Strategies - Dumping | CO K1-K5 1- CO 5 |
| IV | UNIT IV: INTERNATIONAL INVESTMENTS AND EXPORT PROMOTION Foreign Investments Types - Factor Affecting International Investment - Foreign Direct Trends in FDI - Direction o FDI - Source of FDI-Theories of Foreign Direct Investment - India's Position- Export oriented Units and Export Processing Zones-Export Houses and Trading Houses. | CO 1- CO 5 |
| V | UNIT V: INTERNATIONAL ORGANISATIONS Development of World Trading System - General Agreement on Tariffs and Trade (GATT) - Uruguay Round - World Trade Organisation - Unresolved Issues in Doha Round - International Monetary Fund - Role of Special Drawing Rights (SDR) - Bretton Woods System - Role of International Monetary Fund(IMF) - Role of World Bank | CO K1-K5 1- CO 5 |

Prescribed Books/Textbooks (1-5 books)

1) Francis Cherunilam – International Business (5th Ed.)-Wheeler publishing Company (2016)

References (3 – 5)

²⁾ Charles W.L. Hill. – International business-Competing in the global marketplace (9" Ed.)- McGraw-Hill, Irwin (2013).

- S. Tamer Cavusgil, Gary Knight, John Riesenberger.- International Business-The New Realities (4th Ed.) Pearson Education Limited (2017).
- 2. Philip Cateora International Marketing--Toppan Company Ltd
- 3. Subba Rao P -International Business Himalayan Publishing House

Suggested Reading (2 - 5)

International Business Environments and Operations by Daniels and Sullivan – 17th edition

K. Aswathappa, International Business, 2009, Tata McGraw Hill, New Delhi.

Web Resources (3-5)

- 1) https://www.economics discussion.net/essays/international-trade-essays/essay-on-theories-of-international-trade/17910
- 2) https://www.yourarticlelibrary.com/economics/dumping-meaning-types-price-determination-and-effects-of-dumping/28863
- 3) https://www.indeed.com/career-advice/career-development/market-entry-strategies
- 4)https://www.coursesidekick.com/economics/36139
- 5)https://pressbooks.pub/internationalbusiness/chapter/chapter-13-global-production-outsourcing-and-logistics/

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| Course Articulation Matrix | | | | | | | | | | | | | | | |
|----------------------------|--------------------|-----|-----|-----|-----|-----|-----|------|---------|---------|----------|-----------------|------|------|--|
| Outcomes | Programme Outcomes | | | | | | | | | | rogramm | Cognitive Level | | | |
| | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO 1 | | | | | | | | | | | | | | | |
| CO 2 | | | | | | | | | | | | | | | |
| CO 3 | | | | | | | | | | | | | | | |
| CO 4 | | | | | | | | | | | | | | | |
| CO 5 | | | | | | | | | | | | | | | |
| Wt. Avg. | | | | | | | | | | | | | | | |
| | | ı | ı | 1 | ı | | I | Over | all Maj | pping o | of the C | ourse | | | |

SEMESTER -IV

Course title: Macroeconomic Theory II $\,$

| Course Code | | | | | | | | | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| Credits | 5 | | | | | | | | |
| Hours / Cycle | 6 | | | | | | | | |
| Category | Part III a Major Theory | | | | | | | | |
| Semester | IV | | | | | | | | |
| Year of | From the academic year2024-25onwards (this is required | | | | | | | | |
| Implementation | some of the courses may not be revised during particular revision) | | | | | | | | |
| Course Objectives | 7. To create knowledge about nature and causes of macroeconomic problems 8. To equip students with theoretical tools to analyse macroeconomic fluctuations and understand the corrective measures to restore the equilibrium 9. To apply the knowledge gained during the course in understanding the complexities of real-world economic problems and its potential solutions. | | | | | | | | |

| CO# | Course Outcome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) |
|--------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|
| On com | pleting the course successfully, the student will be ab | ole to | |
| CO 1 | Appreciate the nature economic problems at macro level and challenges it causes for economic modelling. | PSO 1 & PSO 3 | K1 |
| CO 2 | Gain knowledge about the formal theoretical tools to model macroeconomic issues like inflation, growth and economic fluctuations. | PSO 3 &PSO 2 | K2 |
| CO 3 | Evaluate the effectiveness of policy frameworks in modern macroeconomic literature. | PSO 2 ,PSO 3 & PSO 4 | К3 |
| CO 4 | Apply latest macroeconomic theoretical models to understand and analyse complex macroeconomic issues | PSO 2, PSO 3 ,PSO 4 &PSO 5 | K4 |
| CO 5 | Build a rigorous platform to learn advanced macroeconomics and its extensions to related fields | PSO 3 & PSO 5 | K5 |
| | SYLLABUS | $\overline{\mathbf{S}}$ | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOM Y LEVEL |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|-------------------------------|
| I | Wage setting and Price setting equations – Natural rate of unemployment – Derivation of Aggregate Supply curve with price expectations – Equilibrium between Aggregate Supply and Aggregate Demand in short run and Medium run – Dynamics of aggregate demand shocks and aggregate supply shocks in short run and medium run – Impact on price and output – Demand pull inflation and cost push inflation – Trade-off between inflation and unemployment (Phillips' curve) – Natural Rate Hypothesis and Expectation Augmented Phillips' Curve. | 15 | CO1- CO5 | K1-K5 |
| II | a) Economic growth – stylized facts – Harrod – Domar Model –Neoclassical Challenges to central results of Harrod – Domar model – Solow model with and without technical progress - Growth Accounting in Solow model – nature of technical progress – Solow model with human capital – Endogenous Growth models – Romer Model – Alternative theories of endogenous growth –AK Model b) Cambridge challenges to neoclassical paradigm – Joan Robinson's model of economic growth – Kaldor's differential saving approach. | 15 | CO 1 - CO 5 | K1-K5 |
| III | Business cycles – phases of business cycles – Schumpeter's innovations approach – Hayek's Theory – Keynes's approach to trade cycles – Hicks-Samuelson Accelerator- Multiplier Interactions model – Kaldor's model with Non-linear saving and investment functions – Real Business Cycles. | 15 | CO1- CO5 | K1-K5 |
| IV | Core features of New Classical macroeconomic models — Rational Expectation Hypothesis — Continuous Market Clearing — The Aggregate Supply Hypothesis of Robert Lucas — Focus on the Microfoundations of Macroeconomics — Policy implications of New Classical Approach — The policy ineffectiveness theorem — Lucas Critique of | 15 | CO 1 - | K1-K5 |

| | Structural Macroeconomic models – Rule Vs Discretion debate under new classical model –Time consistency problem of monetary policy -Central bank independence and reduction of inflation bias. | | | |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-------|
| V | Resurgence of Keynesian economics – Core features of New Keynesian Macroeconomics – Imperfections in real market – Nominal rigidities – Incorporation of Rational Expectation Hypothesis – Fisher and Taylor model with nominal rigidities – Real rigidities – New Keynesian Business Cycle Theory – Policy implications of New Keynesian macroeconomics – Inflation targeting regime – New Keynesian approach to monetary policy – Keynesian Economics without the LM curve. | 15 | CO1- CO5 | K1-K5 |

Prescribed Books/Textbooks

- 7. Snowden, Brian and Howard R Vane (2005) Modern Macroeconomics: Its Origins, Development and Current State, Edward Elgar
- 8. Blanchard, Olivier and David R Johnson (2013) Macroeconomics, Pearson
- 9. Jones, Charles I (2013) Introduction to Economic Growth, Viva-Norton Books

References

- 3. Jones, G Hywel (1976) An Introduction to Modern Theories of Economic Growth, McGraw-Hill
- 4. Gartner, Manfred (2003) Macroeconomics, Prentice Hall
- 5. Feiwel, George (Ed) (1985) Issues in Contemporary Macroeconomics and Distribution, Palgrave Macmillan
- 6. Mankiw, Gregory N and Romer, David (Eds) (1991) New Keynesian Economics, Vol.1, MIT Press

Suggested Reading

- 8. Solow, Robert M (1956) "A Contribution to the Theory of Economic Growth", The Quarterly Journal of Economics, Vol. 70, N0.1, pp.65-94
- 9. Solow, Robert M (1957) "Technical Change and the Aggregate Production Function", The Review of Economics, Vol.39, No.3, pp.312-330
- 10. Friedman, Milton (1968) "The Role of Monetary Policy", The American Economic Review, March, vol 1.
- 11. Phillips, A W (1958) "The Relation Between Unemployment and Rate of Change of Money Wage Rates in the United Kingdom, 1861-1957, Economica, vo.25, pp.283-299

Web Resources

- 4. https://www.core-econ.org/new-edition-of-the-economy/
- 5. https://www.macroscan.org/
- 6. https://ocw.mit.edu/courses/14-452-macroeconomic-theory-ii-spring-2007/

| | Course Articulation Matrix | | | | | | | | | | | | | |
|----------|----------------------------|---------|---------|---------|---------|------|-----|-----|------|---------|----------|---------|----------|------------|
| Course | Programme Outcomes | | | | | | | | Pr | ogramme | Specific | Outcome | es | Cognitive |
| Outcomes | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO 5 | Level |
| CO 1 | 1 | 3 | 2 | | | | | | 3 | | 2 | | | K 1 |
| CO 2 | | 3 | 2 | | | | | | | 3 | 2 | | | K2 |
| CO 3 | | 3 | 2 | 3 | 2 | 2 | | | | 3 | 2 | 2 | | К3 |
| CO 4 | 1 | 3 | 2 | 3 | 2 | 2 | | | 3 | | 2 | 2 | 3 | K4 |
| CO 5 | 1 | 3 | 2 | 3 | 2 | 2 | | | 3 | 3 | 2 | | 3 | K5 |
| Wt. Avg. | 1 | 3 | 2 | 3 | 2 | 2 | | | 3 | 3 | 2 | 2 | 3 | |
| Wt. Avg. | 1 | 3 | 2 | 3 | 2 | 2 | | | | 3 | | | | |

Overall Mapping of the Course PO 2.16/ PSO 2.6

| Course Code | | STATISTICS FOR ECONOMICS | | | | | | | | | |
|-------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------|----------------|---------------------------------------|--|--|--|--|--|
| | redits | | | 5 | | | | | | | |
| | rs / Cycle | 6 | | | | | | | | | |
| | ategory | Part | Core | | Theory | | | | | | |
| | mester | | | Γ | | | | | | | |
| | ear of mentation | | | 2024 | -25 | | | | | | |
| Course | Objectives | To provide essential knowledge of the theory and key properties of probability and random variables, and the application of these concepts in practical situations. To facilitate an understanding of the main branches of basic statistical inference, and to develop the ability to use statistical techniques to analyze data and assess the accuracy of the resulting estimates and conclusions Manipulate the probability models that are most widely used in economics, and apply them correctly and carry out the appropriate statistical analysis | | | | | | | | | |
| CO# | | Course | • Outcome(s) | | PSO dressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | |
| On com | pleting the co | urse succe | essfully, the student will be | able to | | | | | | | |
| CO 1 | | | probability rules and l distributions. | | PSO 1 | K1 | | | | | |
| CO 2 | Make use of testing of l | | sampling methods and | | PSO 2 | K2 | | | | | |
| CO 3 | Analyse th square for | | data using t test and chi | | PSO 6 | К3 | | | | | |
| | E | ne importa | nce of analysis of variance | | PSO 3 | K4 | | | | | |
| CO 4 | in Econom | | nee of analysis of variance | | | | | | | | |

| | SYLLABUS | | | | | | | | | | |
|------|--------------------------------------------------------------|------|-----|---------|--|--|--|--|--|--|--|
| UNIT | CONTENT | HOUR | COs | BLOOM'S | | | | | | | |
| | | S | | TAXONOM | | | | | | | |
| | | | | Y LEVEL | | | | | | | |
| I | Module I: Probability Theory | 18 | CO1 | K1- K5 | | | | | | | |
| | | | - | | | | | | | | |
| | Basic concepts - Random experiment — Outcomes — Events | | CO5 | | | | | | | | |
| | - Sample space - Mutually exclusive events collectively | | | | | | | | | | |
| | exhaustive and complement - Classical probability - Relative | | | | | | | | | | |

| | Frequency - Subjective probability - Addition and multiplication rules - Conditional probability - Bayes Theorem: Random variables - Discrete and continuous variables - Probability distributions for discrete variables - Properties of discrete random variables - Theorems on expectation variables: Definition and Statement of the Theorem (no derivation)- Expected value of discrete random variable - Variance of a discrete random variable - Mean and variance of linear functions of a random variable. | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|--------|
| II | Module II: Theoretical Distribution | 18 | CO1 | K1- K5 |
| | Binomial Distribution :mean and variance of binomial probability distribution - Poisson Distribution: Mean and Variance - Its properties uses and applications - Poisson approximation to Binomial distribution — Jointly Distributed Discrete Random variables - Conditional probability function - Covariance and Correlation - Continuous Random variables and Probability distributions - Normal distribution - Properties and uses — Problems using area under Standard Normal Curve - Normal Distribution Approximation for Binomial Distribution. | | CO5 | |
| III | Module III: Sampling and Estimation | 18 | CO1 | K1- K5 |
| | Sampling — Types - Random and non-random sampling - Sampling distribution and Standard Error - Sampling distribution of sample mean - The Central Limit Theorem - Sampling distribution of sample proportion - Sampling distribution of sample variances. Criteria of a Good Estimator - Types of Estimates: Point and Interval Estimates - Difference between Point estimator and | | CO5 | |
| | Point Estimate - Point estimate of the Population Variance and Standard Deviation - Point Estimate of Population Proportion. Interval Estimates and Confidence Intervals; Relationship Between Confidence level and confidence interval - Interval Estimates of mean from large samples - Population standard variance known - Population standard variance unknown | | | |

| IV | Module IV: Hypothesis Testing Formulation of statistical hypotheses - Null and alternative; Goodness of fit - Confidence intervals - one tailed and two tailed tests and level of significance - Type I and Type II errors - Power of the test and decision making. Hypothesis testing - t test — Cases - Population standard deviation is unknown - Independent samples, Paired samples - Chi-square test-contingency table and F-tests — Anova - One way classification - Properties — Uses and application - Degrees of freedom. | 18 | CO5 | K1- K5 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------|--------|
| V | Module V: Correlation and Regression and Association of Attributes Correlation Analysis - Correlation: types of correlation - Scatter diagram, Sample correlation coefficient - Karl Pearson's correlation coefficient and its properties - Probable error of correlation coefficient - Spearman's rank correlation coefficient. | 18 | CO1 - CO5 | K1- K5 |
| | Regression Analysis Two variable linear regression analysis - Estimation of regression lines (Least square method) and regression coefficients - Their interpretation and properties. Methods of estimation — Least square method and method of maximum likelihood - Difference between correlation and regression analysis - Association of attributes - Terminologies and notations - Consistency of data - Coefficient of attributes. | | | |

Prescribed Books/Textbooks (1-5 books)

- 4. Sancheti, D.C. and Kapoor, V.K., "Statistics Theory,
 Methods and Applications", Seventh Edition, Sultan Chand and
 Sons, New Delhi, 2010.
- 5. Shukla, M.C. and Gulshan, S. S., "Statistics", Sultan Chand and Sons, New Delhi, 2005.
- 6. Veerarajan, T., "Probability, Statistics Random Processes", Tata McGraw Hill EducationPvt. Ltd., New Delhi, 2009.
- 7. Vittal, P.R., "Mathematical Statistics", Margham Publications, 2020.

References (3-5)

- 1. Agarwal, B.L., "Basic Statistics", Fifth Edition, New Age International (P) Ltd., New Delhi, 2012.
- 2. Anderson, Sweeney and Williams., "Statistics for Business and Econom\ics", Cengage, 2014.
- 3. Arora, P. N., Sumeet Arora and Amit Arora, "Elements of Statistical Methods", S. Chand & Company Ltd., New Delhi, 2009.
- 4. Gupta, S.C., "Fundamentals of Statistics", Seventh Edition, Himalaya Publishing House, Mumbai, 2018.
- 5. Gupta, S.P., "Elementary Statistical Methods", Eighteenth Edition, Sultan ChandandSons, New Delhi, 2014.

Suggested Reading (2 -5)

- Gupta, S.P., "Statistical Methods", Sultan Chand and Sons, New Delhi, 2017.
- Monga, G. S., "Mathematics and Statistics for Economics", Third Edition, Vikas Publishing House Pvt. Ltd., New Delhi, 2017.
- Pillai R.S.N., and Bagavathi, V., "Statistics Theory and Practice", Seventh Edition, S.Chand & Co., New Delhi, 2017.

Web Resources (3-5)

- 1. https://www.statista.com.
- 2. https://techjury.net
- 3. https://dss.princeton.edu/online help/analysis/interpreting regression.html

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|----------|----------------------------------------------------|------|------|------|------|-----|-----|-----|-----|---------|------------|---------|------|------------------|-----------------|
| Course | Programme Outcomes | | | | | | | | P | rogramm | e Specific | Outcome | es | Cognitive I aval | |
| Outcomes | | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | | 3 | 3 | - | 2 | 3 | 2 | 1 | 2 | 3 | - | - | - | - | K1 |
| CO 2 | | 2 | 1 | 1 | 1 | 3 | - | - | - | - | - | - | - | 3 | K2 |
| CO 3 | | 3 | 2 | 1 | 3 | 3 | 1 | 2 | 1 | - | - | - | - | 3 | K4 |
| CO 4 | | 1 | 3 | 2 | - | 3 | 2 | 2 | 2 | - | 2 | 3 | - | - | К3 |
| CO 5 | | - | - | 3 | 1 | 3 | 3 | 3 | 3 | - | 3 | - | 3 | 3 | K5 & K6 |
| Wt. Avg. | | 2.25 | 2.25 | 1.75 | 1.75 | 3 | 2 | 2 | 2 | 3 | 2.5 | 3 | 3 | 3 | 32 |
| | Overall Mapping of the Course PO-2.15 PSO- 2.53 | | | | | | | | | | | | | | |

ALLIED-II-AGRICULTURAL ECONOMICS

| Co | urse Code | | | | | |
|-----------------|------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| C | redits | 5 | | | | |
| Ho | urs / Cycle | 6 | | | | |
| | Category | Part III – b | Allied – II | | Theory | |
| | Semester | IV | | | | |
| | ear of | From the acade | mic year 2024-202 | 5 onwards | | |
| _ | lementa | | | | | |
| 1 | tion | | | | | |
| Cours Object | se ctives | agricultural proc analyze the im opportunities wi | luctivity factors, rupact of globalizathin the context of | ıral financial ition on Inc | Ill gain a comprehensive systems, and marketing lian agriculture, assess a lagreements and econor | strategies. They will ing challenges and nic integration. |
| CO# | | Course O | utcome(s) | | PSO | Bloom's |
| | | | | | Addressed | Taxonomy Levels (K1 to K5) |
| On cor | npleting th | e course success | fully, the student | | | |
| CO1 | productivit patterns, a understand | y, various land and modernizating the signification | nfluencing agric classifications, cro tion techniques, nce of agriculture he role of NABAR | opping while in the | PSO 1, PSO 2 | K1 |
| CO 2 | | | low productivngs and the problem | • | PSO 3, PSO 4 | K2 |
| CO 3 | | Ty the various problems of agriculture ting and factors which result in a debt trap. | | | PSO 2, PSO 4 | К3 |
| CO 4 | | ricultural pricing and MSP's in | mechanism, market n India. | PSO 3, PSO 4 | K4 | |
| CO 5 | the Agreen agricultura | ment on Agricu | ional agreements solution (AoA) in solution in solution and opportude in integration. | naping | PSO 3, PSO 4 & PSO 5 | К5 |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY |
|------|---------------------------------------------------------------|-------|-----|---------------------|
| | | | | LEVEL |
| Ι | | 12 | CO1 | K1 to K5 |
| | AGRICULTURAL PRODUCTIVITY | | to | |
| | Land resource - Classification of land - Cropping pattern in | | CO5 | |
| | India - Factors affecting cropping pattern Occupational | | | |
| | structure of the people - Importance of agriculture in Indian | | | |
| | economy - Agriculture productivity in India - Causes for | | | |
| | low productivity – labour productivity in agriculture | | | |
| | Modernization of agriculture. – Share of agriculture and | | | |
| | allied activities in GDP and employment in India | | | |

| II | AGRICULTURAL HOLDINGS AND IRRIGATION | 18 | CO1 | K1 to K5 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------|
| | Agricultural Holdings – meaning and Types - Pattern of land holdings in India – Fragmentation/Sub-division of holdings – Marginal/small: holdings – characteristics advantages and disadvantages. Irrigation managementneed - role - types - benefits - causes for inadequate utilization of irrigation potential - measures for effectively increasing irrigation potential. Subsidies/Schemes - MNREGA/Free electricity. Protective Agriculture Zone (PAZ) and its impact on agriculture | | to CO5 | |
| III | | 15 | CO1 | K1 to K5 |
| | RURAL INDEBTEDNESS AND RURAL CREDIT | | to | |
| | Rural indebtedness - source of rural debt - causes and consequences –debt trap- Farmer suicidesRole of State in relation to debt relief measures - role of public investment in agriculture. Rural credit: - need – classification. Sources of Rural Credit. Institutional and Non-Institutional financing: NABARD - Co-operative Credit Societies: merits & demerits - rural money lenders | | CO5 | |
| IV | | 15 | CO1 | K1 to K5 |
| | Fluctuation in agricultural prices: Causes and impact. Price Stabilization - its meaning - need for stabilization - Agricultural Price Policy: Minimum Support Price (MSP) - Fair and Remunerative Price - Procurement Price - Multi-Commodity Exchange (MCX). Role of Commission for Agricultural Costs and Prices (CACP). Warehousing: Role of Food Corporation of India (FCI). Agricultural Marketing: types - defects. Marketing Agencies - Public Distribution System (PDS) and its impact - e-Nam | | to CO5 | |

т

| V | | 15 | CO1 | K1 to K5 |
|---|--------------------------------------------------------|----|-----|----------|
| | IMPACT OF GLOBALISATION ON INDIAN AGRICULTURE | | to | |
| | Problems and Prospects of Indian Agriculture with | | CO5 | |
| | specific focus on Globalization of Indian Economy. | | | |
| | Agriculture-Industry linkages. Council for Advancement | | | |
| | for People's Action and Rural Technology (CAPART). | | | |
| | Export possibilities in agriculture: World Trade | | | |
| | Organisation (WTO) and Agreement on Agriculture | | | |
| | (AoA) – Review of Agricultural Policies in India. | | | |

Prescribed Books/Textbooks

- 1. Bhalla, G.S (2007), Indian Agriculture since Independence, National Book Trust, India. (Chapters: 6, 7, 8, 9, 10 and 11)
- 2. C.B. Singh and R.K. Singh (2011), A Textbook of Agricultural Economics, Laxmi Publications, New Delhi (Chapters: 1, 2, 4, 7, 8, 12, 13, 15, 16, and 19)
- 3. Bhaduri, A. (1983), The Economic Structure of Backward Agriculture, Macmillan, Delhi. (Chapters: 4, 5, 6, 9, 11)

References

- 1. Bilgrami, S. A. R (2017), Agricultural Economics, Himalaya Publishing House, Delhi. (Chapters: 3, 4, 5, 6, 7, 8 and 9)
- 2. Danwala, M.L. et.al. (1991) Indian Agriculture Development Since Independence, Oxford & IBH, New Delhi (Chapters: Chapter: 4, 6, 7, 8, 11, 12 and 16)
- 3. NIRD, (2009) "WTO and its implications on Indian Agriculture (Chapters :1, 2, 3, 5, 6, 7, and 8)

Suggested Readings

- 1. Kahlon, A.S. and Tyagi D.S. (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi
- 2. Rudra, A. (1982), Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi.

Web Resources

- 1. https://agcensus.nic.in/
- 2. https://eands.dacnet.nic.in/publications.htm
- 3. https://prsindia.org/policy/analytical-reports/state-agricultureindia#:~:

text=Despite%20high%20levels%20of%20production,%2Fhectare%20in%202014%2D15.

| Course Articulation Matrix | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|------|-------|-----|-------|------|------|--|------------------------------------|------|-------|------|------|-----------------|
| Course | | | P | rogra | mme | Outco | mes | | | Programme Specific Outcomes | | | | | a |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 3 | 3 | | | | | | | | 3 | 2.5 | | | | K1 |
| CO 2 | | 2 | 2 | | | 2 | 2 | 2 | | | | 2.5 | 2 | | K2 |
| CO 3 | 3 | 3 | 2.5 | | | 2 | 2 | 2 | | | 3 | | 2.5 | | К3 |
| CO 4 | | 2 | 2 | | | 2 | 2 | 2 | | | | 2 | 2 | | K4 |
| CO 5 | | 2 | 2 | 2 | 2 | 2 | 1 | 3 | | | | 2 | 2.5 | 2 | K5 |
| Wt. Avg. | 3 | 2.4 | 2.12 | 2 | 2 | 2 | 1.75 | 2.25 | | 3 | 2.75 | 2.167 | 2.25 | 2 | |
| | • | | | | | | | | | | | | D | | |

Po -2.172/PS O - 2.433

ECONOMICS OF EDUCATION AND HEALTH

| Cou | rse Code | | ies of Education | <u> </u> | | | | | | | | |
|---------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------|--------------------|---------------------------------------|--|--|--|--|--|--|
| C | redits | 4 | | | | | | | | | | |
| Hours / Cycle | | 4 | | | | | | | | | | |
| Category | | Part | ID Economics of Education and Healtl | | Theory / Practical | | | | | | | |
| Semester | | IV | IV | | | | | | | | | |
| Year of Implementation | | From the academic year 2024-2025 onwards (this is required as some of the courses may not be revised during particular revisions) | | | | | | | | | | |
| Course Objectives | | Economics of Health and Education highlights the demand and supply of health care and studies how scarce healthcare resources are allocated amor competing interventions and groups in society. This course introduces the basic conc Education and health and practical issues faced by decision-makers at all levels in the scarce resources so that the choices they make maximize health benefits to the population. | | | | | | | | | | |
| CO# | | Course Outco | ome(s) | PS Addr | | Bloom's Taxonomy Levels (K1 to K5) | | | | | | |
| On com | pleting the co | urse successfully | , the student will be ab | ole to | | | | | | | | |
| CO1 | • | understand the he nortality, and life | ealth indicators such as expectancy rate. | PSO 1 PSO 3 PSO 4 | | K2 | | | | | | |
| CO 2 | - | • | se the theoretical issues supply systems in India | PSO 2 PSO 4 | | К3 | | | | | | |
| CO 3 | education inf | frastructure in Ind | vailability of health and lia including public and and education in India. | PSO 1 PSO 3 PSO 4 | | K4 | | | | | | |
| CO 4 | | and learn in deta poverty in India. | il about nutrition and | PSO 1 PSO 2 PSO 3 PSO 5 | | K5 | | | | | | |
| CO 5 | health insura | ance with referent ulation. Underst | mine the principles of ace to problems of the tand the educational cation reforms in India | PSO 2 PSO 4 PSO 5 | | К6 | | | | | | |

| | SYLLABUS | | | | | | | | | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|------------------------------|--|--|--|--|--|--|
| UNIT | CONTENT | HOURS | Cos | BLOOM'S TAXONOMY LEVEL | | | | | | |
| I | INTRODUCTION TO ECONOMICS OF HEALTH Determinants of health - Demand and supply of health- Shifts in the demand and supply curves - Opportunity cost - Health care services - Preventative, Curative, Promotional and Rehabilitative health care – Public, Private and Public Private Partnership in health care service - Role of health in Human development – Growth and Development - Importance - Relationship with macroeconomic performance – Health sector and pandemics. | 10 | CO 1 CO 4 | KI, K2, | | | | | | |
| II | KEY HEALTH INDICES Health indicators (BMI-BR-DR-IMR-MMR-Fertility Rate)-Morbidity- Physical Quality of Life Index (PQLI) and Human Development Index (HDI) — Disability Adjusted Life Year (DALY) - Quality of Adjusted Life Year (QALY) - Epidemics-its Eradication-Tropical diseases - Food and nutrition | 20 | CO 1 CO 2 CO 3 | K3, K3, K4 | | | | | | |
| III | HEALTH SECTOR IN INDIA Resource allocation — Budget and GDP — Government Policies: National Health Policies — Schemes and Programmes — Status of current health care sector in India.Health Insurance — Types — Individual Insurance Plan — Group Insurance Plan- Floater Insurance Plan — Asymmetric Information- | 20 | CO 3 CO 4 | K4, K5 | | | | | | |

| | Market Failure- Adverse Selection and Moral Hazard. | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------|------------|
| IV | EDUCATIONAL INDICATORS Education – Formal and Informal education – Levels of formal education – Educational indicators – Literacy Rate (LR) – Adult Literacy Rate (ALR) – Literacy Gender Parity Index (LGPI) – Admission rate (AR) Gross Enrolment Ratio (GER) – Attendance Rate – Absenteeism – Marks obtained – Grades – Dropout Rate (DR) – Child Labour – Educational expenditure on Government and Parents – Skill Development – Public-Private Partnership (PPP) model on education. | 15 | CO 3 CO 4 | K4, K5 |
| V | EDUCATIONAL BODIES IN INDIA AND EDUCATIONAL REFORMS Educational bodies in India – The Ministry of Education – Central Board of Secondary Education (CBSE), National Council of Educational Research and Training (NCERT) - The University Grants Commission (UGC) – All India Council for Technical Education (AICTE) the Distance Education Council (DEC) – The Indian Council for Agriculture Research (ICAR) –The Bar Council of India (BCI) – The Central Council of Indian Medicine (CCIM), National Council for Teacher Education (NCTE) – Enhancing the quality of the Indian Education system – Contribution of Kamaraj on Education in Tamil Nadu – Educational Reforms in India – New Education Policy (NEP) 2020. | 10 | CO 2 CO 5 | K4, K5, K6 |

Prescribed Books/Textbooks

- Pushpalata Patnaik, (2013), Health Economics. Black Prints India Inc. (Chapters: 2, 3, 4, 5, 7, and 8)
- David Wonderling et.al (2011), Introduction to Health Economics. McGraw Hill Education (Chapters: 1, 2,3, and 4)
- Jayapalan. N (2005), History of Education in India. Atlantic publisher (Chapters: 3, 4, 5, 6, and 8)

References

Hollis Chenary and T.N.Srinivasan (1988), Handbook of Development Economics Vol-I (Chapters: 13 and 14

Website:

- 1. www.unicef.org
- 2. www.india.gov.in/health-family-welfare
- 3. www.fpai.org
- 4. www.ihpi.mohfw.gov.in

| Course Articulation Matrix | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|------|---------|---------|-----|-----------------------------|-----|------|------|------|------|------|-----------------|
| Course | | | | Prog | ramme (| Outcome | es | Programme Specific Outcomes | | | | | | | |
| Outcomes | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | - | 2 | ı | - | - | 1 | - | - | | 2 | | 2 | 2 | | K 2 |
| CO 2 | | 2 | 2 | | | | 2 | 2 | 2 | | 2 | | 2 | | К 3 |
| CO 3 | | 2 | 2 | | | | 2 | 2 | 2 | 2 | | 2 | 2 | | K4 |
| CO 4 | | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 2 | K 5 |
| CO 5 | | 2 | 3 | 2 | | | 2 | 2 | 2 | | 2 | | 2 | 2 | K 6 |
| Wt. Avg. | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | |

Overall Mapping of the Course PO-2 / PSO-2

SEMESTER -V

Course title: PUBLIC FINANCE THEORY AND PRACTICE

| Course Code | | 191EC05M01 | | | | | | | | | |
|-------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------|--|--|--|--|--|--|--|
| | Credits | 5 | | | | | | | | | |
| | ırs / Cycle | 6 | | | | | | | | | |
| | Category | Part Core Theory | | | | | | | | | |
| | emester | V | | | | | | | | | |
| | Year of | From the academic year2024- | 25 | onwards | | | | | | | |
| Impl | ementation | | | | | | | | | | |
| Course Objectives | | Students will learn the building blocks of public finance theory and how governments function. It will help students to understand public revenue, budgetary allocations, deficits, etc and | | | | | | | | | |
| | | the more practical aspects of public finance like how governments (at the Centre and at the States) share power, resources and responsibilities amongst themselves. | | | | | | | | | |
| CO# | | Course Outcome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | | | |
| On con | npleting the co | urse successfully, the student will be al | ole to | | | | | | | | |
| CO 1 | and private g key function | the difference between public goods goods, the understand and remember the s of public policy, analyse and the igouvian taxes and subsidies. | PSO – 1, PSO – 3, PSO – 4 | K1 | | | | | | | |
| CO 2 | Understand principle in tanalyse the i | the various approaches to equity exaction, understand tax incidence and mpact of various kinds of taxes and impact of tax reforms followed in | PSO – 1, PSO – 3 | K2 | | | | | | | |
| CO 3 | Understand structure, gre in the study | the concept of public expenditure, its owth and reforms; apply its application of cost-benefit analysis and evaluate aditure benefit incidence analysis | PSO – 1, PSO – 3, PSO – 4 | К3 | | | | | | | |
| CO 4 | Remember a public debt; | and understand the various sources of analyse the burden of public debt and nate the reforms in public debt | PSO – 1, PSO – 3 | K4 | | | | | | | |
| CO 5 | Understand, fiscal federa thereof; und in devolution | analyse and evaluate the system of lism and the emerging imbalances erstand the role of Finance Commission of power and resources between the ts of the government. SYLLABU | PSO – 2. PSO – 5 | K5/K6 | | | | | | | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|------------------------------|
| I | INTRODUCTION TO PUBLIC FINANCE Public Finance – Need for the public sector in the Economy – Fiscal functions – Allocation, Distribution, Stabilization and Coordination of the Budget Function. Social goods – Pure public goods – Congestible public goods – Price- excludable public goods – Merit goods – Social goods and Market Failure – Public goods and externalities – Pigouvian taxes and subsidies – Theory of Public Choice – Political equilibrium under simple majority – Arrow's Impossibility Theorem. | 15 | CO1 TO CO5 | K1 TO K5 |
| II | PUBLIC REVENUE Sources of public revenue – Tax and Non-tax revenues – Canons of Taxation – Approaches to equity in taxation – Ability to Pay Principle – Benefit Principle – Horizontal and Vertical Equity – Taxable capacity and factors influencing taxable capacity - Tax rate structure. Tax Incidence – Rules of Tax Incidence – Elasticities and Tax Incidence – Tax incidence under different market conditions – Excess burden of taxation. | 15 | CO1 TO CO5 | K1 TO K5 |
| III | PUBLIC EXPENDITURE Public Expenditure – Cannons of Public Expenditure - Causes of growth of Public Expenditure - Wagner's Law of Increasing State Expenditure – Peacock Wiseman Hypothesis - Evaluation of Public Expenditure – Types of Benefits and Costs in Public Expenditure – Cost Benefit Analysis – Social and Private Cost Benefit Analysis - Efficiency versus Equity in Public Expenditure – Principle of Maximum Social Advantage – Public Expenditure Benefit Incidence Analysis – Concentration Curves. Structure and Growth of Public Expenditure in India – Economic Reforms and controls of Public Expenditure in India. | 15 | CO1 TO CO5 | K1 TO K5 |
| IV | PUBLIC DEBT Objectives of Public Debt – Types of Public Debt – Sources of Public Debt – Burden of Public | 15 | CO1 TO CO5 | K1 TO K5 |

| | Debt – Interest cost as a burden on future generations – Public Debt Servicing Techniques – Deficit – Types of Deficits – Deficits, Debt and Economic Growth – Debt-GDP Ratio. Structure and Growth of Public Debt in India – Burden of Debt Servicing in India – Public Debt Management in India – Issues in Public Debt Management in India - Fiscal Responsibility and Budget Management Act, 2003. | | | |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------|----------------|
| V | FISCAL FEDERALISM IN INDIA Decentralization – Welfare Gains From Multiple Fiscal Units - The Decentralization Theorem (Oates) - Fiscal Federalism – Seventh Schedule of the Constitution of India – Fiscal Imbalance – Vertical and Horizontal Fiscal Imbalance – Intergovernmental Grants - Finance Commission - Scope of the Finance Commission – Report of the latest Finance Commissions – Taxation | 15 | CO1 TO CO5 | K1 TO K5 |
| | Reforms in India – GST – The GST Council and its functions – Recent Experiences with GST implementation and revenue collection in India. | | | |

- 1. Public Finance and Public Choice. John Cullis and Philip Jones (2015), Oxford University Press Inc., New York.
- 2. Public Finance in Theory and Practice (5th Ed.) Richard A. Musgrave and Peggy B. Musgrave (1989). Mc-Graw Hill Book Company. Singapore.
- 3. Public Economics in India Theory and Practice (2nd Ed.) Janak Raj Gupta (2011). Atlantic Publishers and Distributors P Ltd, New Delhi.

References

- 1. Public Finance A Contemporary Application of Theory to Policy. David Hyman (2015), South-Western Cengage Learning.
- 2. Economics of the Public Sector (4th Ed.) Joseph. E. Stiglitz and Jay K. Rosengard (2015), W.W. Norton & Company.
- 3. Readings in Public Finance Amaresh Bagchi (2006), Oxford University Press, New Delhi.
- 4. Indian Economy. 72nd Ed. Gaurav Datt and Ashwani Mahajan (2016), S Chand Publishing; Seventy Second edition.

Suggested Reading

- 1. Indian Economy. Madhur M. Mahajan (2020), Pearson India Educational Services Pvt. Ltd.
- 2. The Indian Economy: Policies, Practices and Heresies. Jayanta Sarkar (2007), Pearson Longman.
- 3. Hyman, D. (2014). Public Finance: A Contemporary Application of Theory to Policy (11th ed.). Cengage Learning (2014).

Web Resources

1. https://www.youtube.com/watch?reload=9&v=AhVR7gFMKNg

- 2. https://www.elibrary.imf.org/view/IMF069/22254-9781498330664/22254-9781498330664/ch02.xml?language=es&redirect=true
- 3. https://www.indianeconomy.net/splclassroom/what-is-deficit-financing-what-are-the-different-types-of-deficits-in-the-budget/

| | Course Articulation Matrix | | | | | | | | | | | | | |
|----------|-------------------------------|-----|-----|----------|-----------|-----|-----|---------|------------|---------|------|----------------|------|-----------------|
| Course | | | | Programn | ne Outcom | es | P | rogramm | e Specific | Outcome | es | Comition I and | | |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | - | 3 | 3 | - | K1, K2, K4 |
| CO 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | - | 3 | 1 | - | K2, K4, K5 |
| CO 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | - | 3 | 3 | - | K2, K3, K5 |
| CO 4 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | - | 3 | - | - | K1, K2, KO, K5 |
| CO 5 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | - | 3 | - | 1 | 3 | K2, K4, K5 |
| Wt. Avg. | 3 | 3 | 2.2 | 3 | 2.6 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | Overall Mapping of the Course | | | | | | | | | | 2. | 6 | | |
| | | | | | | | | | | | | 3. | 0 | |

ECONOMICS OF INDUSTRY

| Co | ourse Code | | | | | | | | | |
|---------------|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|--|--|--|--|
| | redits | 5 | | | | | | | | |
| Но | urs / Cycle | 6 | | | | | | | | |
| | Category | Part III - a | Core | | Theory | | | | | |
| | Semester | V | - | | <u> </u> | | | | | |
| Y | ear of | From the acad | lemic year 2024-2025 | onwards | | | | | | |
| Imp | lementa | | | | | | | | | |
| | tion | | | | | | | | | |
| Cour Objec | | from sectoral economic polic | This course aims to deepen students' understanding of industrial dynamics in India, spatrom sectoral linkages and market behaviour to productivity metrics and the imperconomic policies, fostering critical insights into the complexities of industrial developed and economic reforms. | | | | | | | |
| CO# | | Course C | Outcome(s) | | PSO | Bloom's | | | | |
| | | | | | Addressed | Taxonomy | | | | |
| | | | | | Addressed | Levels | | | | |
| | | | | | | (K1 to K5) | | | | |
| On cor | npleting th | e course succes | ssfully, the student w | vill be abl | e to | | | | | |
| CO 1 | Recall and | l recognize the | fundamental aspect | ts of | PSO 1, PSO 3 | K1 | | | | |
| | industry a | and the econo | omy, market struct | ures, | | | | | | |
| | investment | 1 0 | methods, product | - | | | | | | |
| | 1 1 | • | sms, financing modes | s and | | | | | | |
| | | reforms in indus | | | | | | | | |
| CO 2 | | | e understanding of | | PSO 1, PSO 2 | K2 | | | | |
| | | | performance of indust | | | | | | | |
| | | | nd evolution of indus | | | | | | | |
| | - | | reforms shaping | the | | | | | | |
| | | levelopment tra | , , | | | | | | | |
| CO3 | 110 | _ | stry and the econom | • | PSO 2, PSO 3, PSO 4 | К3 | | | | |
| | | | to ownership struct | | | | | | | |
| | | | ctivity issues and | | | | | | | |
| GO 4 | | | ime of independence. | | PSO 2, PSO 4 | T7.4 | | | | |
| CO 4 | | | s, industrial conduct, | | rs0 2, rs0 4 | K4 | | | | |
| | | | netrics, pricing strate onsidering factors suc | | | | | | | |
| | | | | | | | | | | |
| | issues. | cories, growin j | patterns, and prolifera | auon |)II | | | | | |
| 00.5 | | impact of soci | toral linkages, owner | rchin | PSO 3, PS | 17.5 | | | | |
| CO 5 | | | nics, productivity le | - | 1303,13 | K5 | | | | |
| | | • | cing modes, indus | 1 | | | | | | |
| | | | reforms on indus | | | | | | | |
| | developme | | reforms on maus | 511111 | | | | | | |
| | ac veropine | 111. | | | | | | | | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|---------------------|
| | | | | LEVEL |
| I | INDUSTRY AND THE ECONOMY | 12 | to CO5 | K1 to K5 |
| | Industry and Sectoral linkages – Balanced Unbalanced growth – Ownership structure – Public Private and Co- operative sector – Global markets – Multinational corporations – Role and importance, impact and survival. | | | |
| | Significance of size – Large scale, Small Scale, Cottage and village industries – Industrial Competition and Markets Integration - Monopoly control – Mergers and acquisition. | | | |
| II | STRUCTURE-CONDUCT -PERFORMANCE | 18 | CO1 | K1 to K5 |
| | Market Structure - Seller's concentration; entry conditions - Economies of scale, Market Structure and profitability, Innovation; Theories of Industrial location - Weber and Sargent Florence; Factors affecting location Market Conduct - Product Pricing - predatory pricing - Investment planning - methods of evaluating | | to CO5 | |
| | investment planning – Mergers and Acquisitions and diversification Market Performance - Growth of a firm; Behaviour of firm- strategies – theories on firm behaviour and strategies Cournot's model and Bertrand's model | | | |
| III | | 15 | CO1 | K1 to K5 |
| | PRODUCTIVITY Concept and measurement of productivity – Productivity in Indian Industries -Industrial sickness. Under-utilisation | | to CO5 | |
| | of capacity- factors accounting for under-utilisation of capacity and consequences – Structure of Industrial Labour - Wages and problems of bonus. | | | |
| IV | PRICING AND FINANCING OF INDUSTRY | 15 | CO1 to | K1 to K5 |
| | Pricing in India – Mode of Financing- Equity debt – Bank Finance – Financial Institutions. | | CO5 | |

| V | | 15 | CO1 | K1 to K5 |
|---|-------------------------------------------------------------|----|-----|----------|
| | INDUSTRIAL DEVELOPMENT IN INDIA | | to | |
| | Industrial Structure at the time of Independence – | | CO5 | |
| | Industrial Policies – Role of State – Issues of | | | |
| | Industrialisation during planning regime – Economic | | | |
| | Reforms – Liberalisation, Privatisation, Globalisation- | | | |
| | Impact. Industrial growth and pattern. Issues of industrial | | | |
| | proliferation. | | | |

- 4. R.R. Barathwal, Industrial Economics New Age International (P) Ltd. Publishers
- 5. Stephen Martin: Advanced Industrial Economics, Blackwell.
- 6. Kapila, Raj and Kapila, Uma (2002), India's Economy in the 21st Century. New Delhi: Academic Foundation.
- 7. S.C.Kuchhal, The Industrial Economy of India, Chaitanya Publishing House (Publisher).

References

- 1. Mookherjee, D. (1997). Indian Industry: Policies and Performance. Oxford University Press, Edited.
- 2. Jean Tirole: The Theory of Industrial Organization, (MIT Press) Prentice Hall India. Oz Shy: Industrial Organization, MIT Press
- 3. Kaushik Basu: Lectures in Industrial Organization Theory, Blackwell.
- 4. Richard Schmalensee and Robert D. Willig (Ed:), Hand Book of Industrial Organization, Volume I and II, North Holland.

Suggested Readings

- 3. Donald A. Hay and Derek J. Morris: Industrial economics and organization; theory and evidence, Oxford University Press
- 4. Paramita Roy Biswas and Arpita Ghose (2012), Growth, Efficiency & Productivity of Indian Manufacturing Industries Paperback.
- 5. Ahluwalia I. J. (1995), Industrial Growth in India. Oxford University Press, New Delhi.

Web Resources

- 1. https://www.tcd.ie/Economics/assets/pdf/SER/1999/Hambrock_Hauptman.pdf
- 2. https://www.egyankosh.ac.in/bitstream/123456789/37977/1/Unit-9.pdf
- 3. https://mospi.gov.in/sites/default/files/Statistical_year_book_india_chapters/ch14.pdf

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|----------|----------------------------|------|-----------|-------|-----|-------|-------|-------|-----------------------------|-------|-------|-------|-------|-----------|-------|
| Course | | | P | rogra | mme | Outco | mes | | Programme Specific Outcomes | | | | comes | Cognitive | |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Level |
| CO 1 | 2 | 2.25 | 2.25 | | | | | | | 2 | | 2.25 | | | K1 |
| CO 2 | 2.25 | 2.25 | | | | | | | | 2.25 | 2 | | | | K2 |
| CO 3 | 2.25 | 2.25 | 2 | | | 2 | 2 | 2 | | | 2.25 | 2 | 2 | | К3 |
| CO 4 | 2 | 2 | 2.25 | | | 2.25 | 2.25 | 2.25 | | | 2 | | 2.25 | | K4 |
| CO 5 | 2.25 | 2 | 2.12 | 2 | 2 | | 2.25 | 2.25 | | | | 2 | | 2.25 | K5 |
| Wt. Avg. | 2.15 | 2.15 | 2.15 6 | 2 | 2 | 2.12 | 2.167 | 2.167 | | 2.125 | 2.083 | 2.083 | 2.125 | 2.25 | |
| | | | | | | | | | | | | | DO | 2 114 | |

PO – 2.114 /PSO – 2.133

| Cou | rse Code | ECONOMETRICS | | | | | | | | |
|--------|------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|---------------------------|---------------------------------------|--|--|--|--|--|
| | Credits | 5 | | | | | | | | |
| | rs / Cycle | 6 | | | | | | | | |
| | ategory | Part | Core | Theory | | | | | | |
| | emester | V 2024-2025 | | | | | | | | |
| | ear of | | | | | | | | | |
| Imple | ementation | | | | | | | | | |
| Course | e Objectives | estin Assi matt | matters for how we interpret and use statistical analysis | | | | | | | |
| | | | | | | | | | | |
| CO# | | Course O | utcome(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | |
| | pleting the co | | utcome(s) fully, the student will be a | Addressed | | | | | | |
| On com | | urse successf | ., | Addressed | | | | | | |
| On com | Understand to methods | the concepts in | ully, the student will be a | Addressed able to | (K1 to K5) | | | | | |
| On com | Understand to methods Apply the ecceptonetric | the concepts in | tully, the student will be an the econometric epts in formulating an | Addressed able to PSO 1 | (K1 to K5) K1 | | | | | |
| | Understand to methods Apply the ecceptonetric Examine the assumptions | the concepts in conomic conce model problems of i | tully, the student will be an the econometric epts in formulating an | Addressed PSO 1 PSO 2 | (K1 to K5) K1 K2 | | | | | |

| | SYLLABUS | | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|-------------------------------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOM Y LEVEL |
| I | INTRODUCTION TO ECONOMETRICS Econometrics: Definitions, Scope of Econometrics and Divisions in Econometrics Mathematical Economics and Econometrics Statistics and Econometrics, Methodology of Econometrics- Population regression function Stochastic specification of population | 18 | CO1 - CO5 | K1 – K5 |

| | regression function- Significance of the error term Sample regression function, variable - Mean and variance of linear functions of a random variable. | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|---------|
| II | ESTIMATION: The method of ordinary least square method- Principle-Assumption-Properties of ordinary least square estimator-Gauss-Markov theorem- Coefficient of Determination- R Square- Adjusted R Square- Confidence Interval- 't' statistic / p value- Residual diagnostics: Stability and Normality tests- Interpretations of (ANOVA) table, Chi Square and F statistic-Estimation of three variable model(only Basic Ideas). | 18 | CO1 CO5 | K1 – K5 |
| Ш | VIOLATIONS OF CLASSICAL LINEAR REGRESSION ASSUMPTIONS Multipollipoprity, Hotorogoodosticity, Autocorrelation; natura | 18 | CO1 CO5 | K1 – K5 |
| | Multicollinearity- Heteroscedasticity-Autocorrelation: nature, detection, practical consequences and remedial measures. | | | |
| IV | FUNCTIONAL FORMS AND DUMMY VARIABLE REGRESSION MODELS Double log, Semi log model and reciprocal transformation-Regression on one quantitative variable and one qualitative variable with two categories- Uses of dummy variable analysis. | 18 | CO1 CO5 | K1 – K5 |
| V | | 18 | CO1 | K1 – K5 |
| | DISTRIBUTED LAG MODEL AND SIMULTANEOUS EQUATION | | CO5 | |
| | Role of lags in economics- Reasons for lag Adhoc and Keyck estimation of distributed lag models-Nature of simultaneous equation-Simultaneous equation bias-Structure and Reduced form equations- Identification- Rank order conditions Indirect least square estimation. | _ | | |

Prescribed Books/Textbooks (1-5 books)

- 1. Damodar N Gujarati, Dawn C Porter & Manoranjan Pal Sangeetha (2021), Basic Econometrics, Sixth edition(Special Indian Edition), Tata McGraw Hill.
- 2. Wooldridge J (2012): Introductory Econometrics: A Modern Approach, 5/E South Western.

Green,

3. William H.(2018), Econometric Analysis, Eighth Revised Edition. Pearson P.Ltd.

Text Books:

- 4. Damodar N Gujarati, Dawn C Porter & Manoranjan Pal Sangeetha (2021), Basic Econometrics, Sixth edition(Special Indian Edition), Tata McGraw Hill.
- 5. Wooldridge J (2012): Introductory Econometrics: A Modern Approach, 5/E South Western. Green.
- 6. William H.(2018), Econometric Analysis, Eighth Revised Edition. Pearson P.Ltd.

References:

- 1. Christopher Dougherty (2011), Introduction to Econometrics, 4th edition, OUP, Indian edition.
- 2. H.Studenmund, A Practical Guide to Using Econometrics, Pearson P.Ltd 7th Edition, 2017.
- 3. Jeffrey M. Wooldridge (2014), Introduction to Econometrics: A Modern Approach, 7th Edition, Cengage Learning.
- 4. Johnston J (2006): Econometrics Methods ,3rd Edition, McGraw Hill.

Web Resources (3-5)

- 1. https://www.youtube.com/@thomachankt8235
- 2. https://learneconometricsfast.com.
- 3. https://www.youtube.com/@sayedhossain23

| | Course Articulation Matrix | | | | | | | | | | | | | |
|----------|----------------------------|------|------|---------|---------|-----|-----------------------------|-----|------|------|------|------|------|-----------------|
| Course | | | Prog | ramme (| Outcome | es | Programme Specific Outcomes | | | | | | | |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 3 | 3 | - | 2 | 3 | 2 | 1 | 2 | 3 | - | - | - | - | K1 |
| CO 2 | 2 | 1 | 1 | 1 | 3 | - | - | - | - | - | - | - | 3 | K2 |
| CO 3 | 3 | 2 | 1 | 3 | 3 | 1 | 2 | 1 | - | - | - | - | 3 | K4 |
| CO 4 | 1 | 3 | 2 | - | 3 | 2 | 2 | 2 | - | | 3 | - | - | К3 |
| CO 5 | - | - | 3 | 1 | 3 | 3 | 3 | 3 | - | 1 | - | 3 | 3 | K5 & K6 |
| Wt. Avg. | 2.25 | 2.25 | 1.75 | 1.75 | 3 | 2 | 2 | 2 | 3 | 1 | 3 | 3 | 3 | 31 |
| | - I | • | • | • | • | | | • | • | • | | DO | 2 15 | |

Overall Mapping of the Course

PO-2.15 PSO- 2.66

| | | | ECONOMICS OF ENTREPRENEURSHIP | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|----------|-------------|----------------------------------|--|--|--|--|--|--|--|
| Co | urse Code | | | | | | | | | | | | |
| _ | redits | 5 | | | | | | | | | | | |
| | urs / Cycle | | | | | | | | | | | | |
| | Category Semester | Part III – a | Core | | Theory | | | | | | | | |
| | ear of | V From the acad | From the academic year 2024-2025 onwards | | | | | | | | | | |
| | lementa | 110m the acad | onne year 2021 2020 onw | ui us | | | | | | | | | |
| _ | tion | | | | | | | | | | | | |
| Course Objectives This course endeavours to equip students with a comprehensive understand entrepreneurship, covering essential aspects such as theories, functional areas, finance non-financial institutional support, feasibility studies, and project report prepositions will gain insights into the role of entrepreneurship in economic developments significance in fostering innovation and growth. | | | | | | | | | | | | | |
| CO# | | Course O | utcome(s) | | PSO | Bloom's | | | | | | | |
| | | | | | Addressed | Taxonomy Levels (K1 to K5) | | | | | | | |
| On con | npleting th | e course succes | sfully, the student will b | e able t | 0 | | | | | | | | |
| CO 1 | theories, motivation | including type | reneurship concepts and s of entrepreneurship, roles of financial and | | | | | | | | | | |
| CO 2 | economic | development, a | of entrepreneurship in nalysing entrepreneurial nctions, and institutional | | SO 2, PSO3 | K2 | | | | | | | |
| CO3 | Apply entr scenarios, identificati | demonstrating on, technolog trategy formula | nowledge to real-world skills in opportunity sy selection, market tion, and project report | y et | | | | | | | | | |
| CO 4 | manageme institutiona | nt decisions, ea al roles, utilizing | complexities, considering conomic influences, and SWOT analyses, project nd program evaluations. | nd et | | | | | | | | | |
| CO 5 | Evaluate contribution | entrepreneurshins to eco | | P | SO 4. PSO 5 | K5 | | | | | | | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|-------------------|
| | | | | TAXONOMY LEVEL |
| Ι | INTRODUCTIONEntrepreneurship: Meaning – Definition – Women | 12 | CO1 to | K1 to K5 |
| | entrepreneurs - Types – Characteristics - Role and functions of Entrepreneurship in economic development – Difference between an entrepreneur and a manager. | | CO5 | |
| | • Theories of Entrepreneurship: Maslow's need Hierarchy theory – McClelland's theory of needs and motivation - Kirzrier's view, Baumol's and Peter Drucker's view on entrepreneurship - Mark Casson theory of Entrepreneurship. | | | |
| II | FUNCTIONAL ASPECTS OF ENTREPRENEURIAL AREAS Planning – Organizing – Staffing – Leading and Control – Management Decisions and Economic environment – Identification of opportunities – Choice of Technology – Identification of opportunities – Choice of technology - Product selection and Development – Costing: Types – Importance-Market Survey –Market Strategy – Sales Promotion and Advertising. | 18 | CO1 to CO5 | K1 to K5 |
| III | Role and functions of financial Institutions: Industrial Financial Corporation of India(IFCI), The Small Industries Development Bank of Industries Development of Bank of India (IDBI), The Small Industries Development Bank of India (SIDBI), The Industrial Investment Bank of India (IIBI), All-India Development Banks (AIDBs) Specialised Financial Institutions: IFCI Venture Capital Ltd (IVCF) –Tourism Finance Corporation of India Ltd (TFCI) – Unit Trust of India (UTI), General Insurance Corporation of India (GIC) – State Financial Corporation (SFC). | 15 | to CO5 | K1 to K5 |
| IV | NON-FINANCIAL INSTITUTIONS SUPPORT TO ENTREPRENEURS Role and functions of non- financial Institution: National Small Industries Corporation (NSIC) – Small Industries Development Organization (SIDO) - Small Scale Industries Board (SSIB) –State Small Industries | 15 | to CO5 | K1 to K5 |

| | Development Corporation (SSID) Small Industries Service Institute (SISI) – District Industries Centre (DICs) – Industrial Estates – Specialized Institutions – Technical Consultancy Organisations (TCOs) – SIPCOT – Entrepreneurship Development Institute of India (EDII). | | | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----------|
| \mathbf{V} | | 15 | CO1 | K1 to K5 |
| | FEASIBILITY STUDY AND PROJECT REPORT | | to | |
| | Feasibility Study: Input -Technical/Technology - | | CO5 | |
| | Marketing – Environment - Economic Viability role need | | | |
| | and importance: SWOT Analysis – PERT – CPM – | | | |
| | Entrepreneurship Development Programmes (EDPs) - | | | |
| | Course Contents of EDP- Format of a Project report - | | | |
| | Preparation of a Project Report | | | |
| | (Students may choose any one area in the syllabus | | | |
| | for Mini Project Work) | | | |

- 8. S.S.Khanka (2020): 'Entrepreneurial Development' S Chand and Company Ltd Revised Edition, New Delhi
- 9. P.T. VijayaShree and M. Alagammai (2020): 'Entrepreneurial Development and Small Business management' Margham Publications Revised Edition Chennai.
- 10. Nuzhath Khatoon (2013): "Entrepreneurial Development" Himalaya Publishing House, New Delhi.

References

- 5. N.P.Srinivasan and C.B.Gupta (2015): 'Entrepreneurial Development' Sultan and Chand & Sons Edition, New Delhi.
- 6. Donald F Kuratko (2010): 'Entrepreneurship: Theory, Process, Practice' 2nd AsiaPacific Edition
- 7. Parker SC. *The Economics of Entrepreneurship*. 2nd ed. Cambridge University Press; 2018.

Suggested Readings

- 6. Drucker, P. F. (1985). Innovation and entrepreneurship: practice and principles (1st ed.). Harper & Row.
- 7. Jean Dreze and Amartya Sen, 2013. An Uncertain Glory: India and its Contradictions, Princeton University Press. Reetika Khera, 2011, India's Public Distribution System: Utilisation and Impact Journal of Development Studies.
- 8. Moore, G. A. (1991). Crossing the chasm: marketing and selling technology products to mainstream customers. HarperBusiness. University Press.

Web Resources

- 4. https://wcu.edu.et/FirstYearModule/ENTREPRENEURSHIP%20module.pdf
- 5. https://mrecacademics.com/DepartmentStudyMaterials/20220106-Entrepreneurship.pdf
- 6. https://oasis.col.org/server/api/core/bitstreams/24fc6ce7-028e-48b7-8b48-15670a5a5223/content

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|--------------------|----------------------------|------|-------|-------|-------|-------|-------|--------------------------------|--|------|------|-------|-----------|------|-------|
| Course Outcomes | | | Prog | gramı | ne Oı | ıtcom | es | Programme Specific Outcomes | | | | | Cognitive | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Level |
| CO 1 | 2.25 | 2.25 | | | | | | | | 2.25 | 2.25 | | | | K1 |
| CO 2 | 2.25 | 2.25 | 2 | | | | | | | | 2.25 | 2 | | | K2 |
| CO 3 | 2 | 2 | 2 | | | 2 | 2 | 2 | | | | 2 | 2 | | К3 |
| CO 4 | 2.25 | 2.25 | 2.25 | | | 2.25 | 2.25 | 2.25 | | | | 2.25 | 2.25 | | K4 |
| CO 5 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | | | | | 2.25 | 2.25 | K5 |
| Wt. Avg. | 2.20 | 2.20 | 2.125 | 2.25 | 2.25 | 2.167 | 2.167 | 2.167 | | 2.25 | 2.25 | 2.083 | 2.167 | 2.25 | |
| | 1 | | | | | | | | | 1 | 1 | | | | |

PO -2.19/PSO - 2.2

GENERAL ELECTIVE – ECONOMY, STATE & SOCIETY

| Co | urse Code | | | | | | | | | | | |
|----------------|------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|--|--|--|--|--|--|
| | redits | 3 | | | | | | | | | | |
| Ho | urs / Cycle | 4 | | | | | | | | | | |
| | Category | Part IV - | - b | General Elective | Theory | | | | | | | |
| | Semester | V | | ı | , , | | | | | | | |
| Ye | ear of | From th | e acade | mic year 2024-2025 onw | ards | | | | | | | |
| Impl | lementa | | | | | | | | | | | |
| 1 | tion | | | | | | | | | | | |
| Cours Objec | etives | political, to critical the dynai they will | This course aims to equip students with a deep understanding of the historical, social political, and economic dimensions of modern India. Students will develop analytical skill to critically assess the evolution of Indian society, the functioning of its political system, and the dynamics of its economic development, both pre and post-liberalization. Through this hey will gain insights into the complexities of India's journey as a nation and its role in the global landscape. | | | | | | | | | |
| CO# | | Cor | urse Oi | ıtcome(s) | PSO | Bloom's | | | | | | |
| | | | | | Addressed | Taxonomy Levels (K1 to K5) | | | | | | |
| | Recall and i | dentify ke | ey histor | fully, the student will be rical events and periods in colonial rule, nationalist estitution, and economic | PSO 1, PSO 4 | K1 | | | | | | |
| GO 4 | reforms. | | | and implications of | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | |
| CO 2 | nationalism political sys | in India, stem, soci | the fun | and implications of actioning of the Indian mic dynamics, and the Indian society and | PSO 2, PSO3, PSO 4 | K2 | | | | | | |
| CO 3 | contexts to economic is | analyze a | and eval India, u | orical and contemporary uate political, social, and tilizing concepts such as ad economic reforms. | PSO 3, PSO 4 | К3 | | | | | | |
| CO 4 | changes, po | olitical str ating tren | uctures, ds in ed | related to socioeconomic and policy initiatives in conomic growth, poverty, rernance. | ves in | | | | | | | |
| CO 5 | events, poli economic re | tical syste eforms in | ems, soc India, co | consequences of historical cioeconomic policies, and onsidering their impact on al cohesion, and global | PSO 2, PSO 4 & PSO 5 | K5 | | | | | | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|------------------------------|
| I | MODERN INDIAN NATION: A HISTORICAL PERSPECTIVE | 12 | CO1 to CO5 | K1 to K5 |
| | India on the eve of British Rule – Colonial Rule under the East India Company from 1757 to the Great Revolt of 1857 – Crown Rule 1857-1947 – Social Conditions of the Indian People under Colonial Rule | | COS | |
| | Nationalism in India – Rise and growth – Indian National Congress – Moderates and Extremists- Gandhi and the emergence of a mass movement for freedom from colonial role –Role of the Working Class and Peasant movements - Modern Indian Nation State as the product of an anti-colonial struggle uniting people across sentiments of religion, caste, language and region | | | |
| II | CONTEMPORARY INDIAN SOCIETY | 12 | CO1 | K1 to K5 |
| | Main features: Large and diverse territory and population - Language, ethnicity, religion and geography as markers of diversity and plurality - Uniqueness of India as a unified Nation state with the highest degree of diversity The Indian Caste System -Hierarchies - Relations of Dominance and Dependence - Untouchability and other forms of caste discrimination/oppression - Caste as a marker of identity in a changing India - Role of affirmative action/positive discrimination Classes and Class Relations - Dynamics of Caste and Class Relations linked to socioeconomic changes such as economic modernization and urbanization Globalization and contemporary Indian Society - Implications for Family and Social Values. | | to CO5 | |
| III | INDIAN POLITICAL SYSTEM The Constitution of India: Evolution, Preamble, Fundamental Rights, Fundamental Duties, Directive Principles of State Policy Union Government: Parliament – Powers and functions of key functionaries: President, Vice President, Prime Minister, Council of Ministers and | 12 | to CO5 | K1 to K5 |

| | Speaker – Supreme Court of India: independence of Judiciary Federalism and Centre-State Relations – Coalitions at Centre and in the States Centre-State Financial Relations – Finance Commission -NITI Aayog State Government: Legislative Assembly – Powers and functions of key functionaries: Governor, Chief Minister, Council of Ministers and Speaker – High Court | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----------|
| | Local Government: PRIs & Urban Local Government Institutions | | | |
| IV | ECONOMIC DEVELOPMENT IN INDIA, 1950 TO 1990 | 15 | CO1 to | K1 to K5 |
| | • Indian Economy at Independence: Population, Education, Health, Agriculture, Industry, Physical and Industrial Infrastructure | | CO5 | |
| | • Economic Growth Patterns: Overall, Agriculture, Industry, Services | | | |
| | Human Development Trends | | | |
| | Trends in extent of Poverty over time in India and major States | | | |
| | • Employment and Unemployment – Trends in terms of quality and quantity | | | |
| | • An introduction to Environment, Development and Displacement Issues in India. | | | |
| V | INDIAN ECONOMY SINCE 1990 | 9 | CO1 to | K1 to K5 |
| | Economic reforms of liberalization, privatization and globalization - Growth, poverty, employment and unemployment and food security. | | CO5 | |

- 11. Bipan Chandra, (2009) History of Modern India. New Delhi: Orient Blackswan
- 12. Bidyut Chakrabarty, Rajendra Kumar Pandey(2008) Indian Government and Politics , Sage Publications, New Delhi
- 13. Kapila, Raj and Kapila, Uma (2002), India's Economy in the 21st Century. New Delhi: Academic Foundation.

References

- 8. Kurien C.T (1992) The Economy: An Interpretative Introduction Sage Publications
- 9. Kurien C.T. (1994), Global Capitalism and Indian Economy Orient Longman
- 10. Dutt and K.P.M.Sundaram (2006) Indian Economy, New Delhi, Sultan and Chand Company.

Suggested Readings

- 9. Kashyap, Subash. (2005), Our Constitution, National Book Trust, New Delhi.
- 10. Johari, JC. (1995). The Constitution of India A Politico-Legal Study, Sterling Publishers Pvt. Limited, New Delhi.

Web Resources

- 7. https://hdr.undp.org/
- 8. https://www.niti.gov.in/sites/default/files/2023-08/India-National-Multidimentional-Poverty-Index-2023.pdf
- 9. https://www.niti.gov.in/

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|----------|----------------------------|------|-----|--------|------|-------|------|-----------------------------|--|------|-------|-------|-----------------|------|---------------|
| Course | | | F | Progra | mme | Outco | omes | Programme Specific Outcomes | | | | | Cognitive Level | | |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cogmuve Level |
| CO 1 | 2.5 | 2.75 | 2.5 | | | 2.5 | 1.5 | 1.5 | | 1.5 | | | 3 | | K1 |
| CO 2 | 2 | 2.25 | 2 | | | 2 | 1.75 | 2 | | | 2 | 2.5 | 2.5 | | K2 |
| CO 3 | 2 | 3 | 2.5 | | | 2 | 1.75 | 2 | | | | 2.25 | 2.75 | | К3 |
| CO 4 | 2 | 2 | 2 | 2.25 | 2.25 | 2 | 2 | 2 | | | | | 2.25 | 1.75 | K4 |
| CO 5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 1.5 | 3 | | | 2.25 | | 2.5 | 2.25 | K5 |
| Wt. Avg. | 2 | 2.4 | 2.2 | 2.12 | 2.12 | 2.1 | 1.7 | 2.1 | | 1.5 | 2.125 | 2.375 | 2.6 | 2 | |

Po -2.093/PS O - 2.12

SEMESTER-VI

Course title: INTERNATIONAL ECONOMICS

| Cou | rse Code | 191EC6M01 | | | | | | | | |
|--------|----------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|------------------------------------------------|--|--|--|--|
| C | redits | 6 | | | | | | | | |
| Hou | rs / Cycle | 6 | | | | | | | | |
| Ca | ategory | Part | Core | | Theory | | | | | |
| Se | mester | VI | | | _ | | | | | |
| | ear of mentation | | emic year rses may not be revise | | | onwards (this is required as ılar revision) | | | | |
| Course | Objectives | associated with also introduces The students wi | The course is designed to provide students gain an in-depth knowledge about the theories associated with international trade and understand the impact of free trade. The course also introduces students to the various tariff and non-tariff barriers to international trade. The students will also learn about the financial dynamics that supports the international trade in goods and services and India's response to international trade at a policy level. | | | | | | | |
| CO# | | Course Outco | ome(s) | | PSO ressed | Bloom's Taxonomy Levels (K1 to K5) | | | | |
| On com | Understand international | the meaning trade and analyse v | and importance of why countries engage in pretical perspective. | | | K1 | | | | |
| CO 2 | Understand greasoning pr | gains from trade u rovided by econor | sing various theoretical mists and analyse how an engine of economic | PSO-1 PSO-2 | | K2 | | | | |
| CO 3 | Remember a trade policy. | Understand and e gional trade agree | various components of valuate the need for and ements and cooperative | | | К3 | | | | |
| CO 4 | international Balance of disequilibriu | trade. Understa Payment accou | mics behind facilitating nd the working of the nts, the reasons for in which the foreign | PSO-1 PSO-2 PSO-3 | 2 | K4 | | | | |
| CO 5 | Understand t | he significance of economic order a | Emerging Economies and India's foreign trade | PSO-2 PSO-4 PSO-5 | 1 | K5/K6 | | | | |

| SYLLABUS | |
|----------|--|
|----------|--|

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|------------------------------|
| I | INTRODUCTION TO INTERNATIONAL ECONOMICS The subject matter and importance of International Economics – Inter-regional and International trade – Theoretical Perspectives in International Economics: Autarky – Mercantilists' School of Thought – Adam Smith's Theory of Absolute Advantage – David Ricardo's Theory of Comparative Advantage – Comparative Advantage and Opportunity Costs – Introduction of opportunity Cost and increasing costs to the traditional trade theories. | 15 | CO1, TO CO5 | K1 TO K5 |
| II | GAINS FROM TRADE AND TRADE THEORIES Gains from Trade: Equilibrium with and without International Trade – The Trade Triangle – Terms of Trade — Demand and Supply in International Trade –Trading Equilibrium using the Offer Curves – Elasticity and the Offer Curves – J.S. Mill's Theory of Reciprocal Demand – Mill's Paradox – The Hecksher-Ohlin Theory of International Trade – The Leontief's Paradox – The Gravity Model of International Trade – Foreign Trade as an Engine of Growth. | 15 | CO1, TO CO5 | K1 TO K5 |
| III | TRADE POLICY Arguments For and Against Free Trade – Barriers to Free Trade: Tariffs – Types – Measurement of Tariffs (Unweighted, Weighted, Prohibitive Tariff) – Quotas – Preferential Duties – Generalized System of Preferences – Most Favoured Nation – Offshore Assembly Provisions - Non-tariff Measures (NTMs) as Barriers to Free Trade – Reasons for implementing NTMs – Types of NTMs. Impact of Trade Restrictions: Welfare implications of Tariff Protection in the Small Country and the Large Country in the case of both partial equilibrium and general equilibrium setting. Tariff Wars – Optimum Tariff – Metzler's Paradox. Regional and International Cooperation: Spread of RTAs and their implications. EU, | 15 | CO1, TO CO5 | K1 TO K5 |

| | NAFTA, SAARC, ASEAN, BRICS and OPEC – The Trans-Pacific Partnership (TPP) - The Regional Comprehensive Economic Partnership (RCEP) – Forums for international economic cooperation: The G7 and G20. | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------|----------|
| IV | BALANCE OF PAYMENTS Balance of Trade and Balance of Payments: Concepts and Components – Equilibrium and Disequilibrium in the Balance of Payments: Causes and Consequences – Measures to Correct the Deficit in the Balance of Payments – The Forex Market and The Foreign Exchange Rate – Causes of Fluctuations in the rate of exchange – Devaluation – Merits and Limitations of the Devaluation Approach – The Marshall-Lerner Condition – Foreign Trade Multiplier: Concept and Importance. | 15 | CO1, TO CO5 | K1 TO K5 |
| V | TRADE REFORMS IN INDIA The significance of Emerging Economies in the global economic order – Issues in 'job export' from the Global North to the Global South and implications on emerging economies - Foreign Trade in India during the plan period and afterward – Instruments of Export Promotion – SEZs, Multinational Corporations, Foreign Exchange Management Act (FEMA) – Recent changes in the composition and direction of Foreign Trade – Need for and Rationale of Trade Reforms in India – Partial and Full Convertibility of Rupee – Foreign Trade Policy in India since 2015. | 15 | CO1, TO CO5 | K1 TO K5 |

- 1. Dennis R. Appleyard and Alfred J. Field, Jr. International Economics (8th Edition) (2014). McGraw Hill, Irwin.
- 2. Dominic Salvatore. International Economics (11th Edition) (2013). Wiley. Paul R. Krugman, Maurice Obstfeld, Marc J. Melitz. International Economics Theory and
- **3.** Policy (9th Edition). Pearson. (2012).

References

- 1. Robert J. Carbaugh. International Economics (10th Edition) (2005). Thomson South-Western.
- 2. Dominic Salvatore. Theory and Problems of International Economics (3rd Edition). Mc-Graw Hill Inc. (2013).
- 3. International Economics. Author, H. G. Mannur. Publisher, Vikas, (1995)

Suggested Reading

- 1. Indian Economy. 72nd Ed. Gaurav Datt and Ashwani Mahajan. S Chand Publishing; Seventy Second edition (2016).
- 2. Indian Economy. Madhur M. Mahajan. Pearson India Educational Services Pvt. Ltd. (2020).
- 3. The Indian Economy: Policies, Practices and Heresies. Jayanta Sarkar. Pearson Longman (2007)

Web Resources

https://pressbooks.bccampus.ca/uvicecon103/chapter/4-7-tariffs/ https://en.wikipedia.org/wiki/Global North and Global South

https://milnepublishing.geneseo.edu/genderedlives/chapter/chapter-15-the-global-north-introducing-the-region/

| | Course Articulation Matrix | | | | | | | | | | | | | |
|----------|-----------------------------------|-----|-----|---------|---------|-------|-----|-----|------|---------|-------------|----------|------|-------------------|
| Course | | | I | Program | me Outo | comes | | | | Program | me Specific | Outcomes | , | |
| Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | - Cognitive Level |
| CO 1 | 3 | 3 | | | 3 | 3 | | 3 | 3 | | | | | K1, K2, K4 |
| CO 2 | 3 | 3 | | | 3 | 3 | | | 3 | | | | | K1, K2, K4 |
| CO 3 | 3 | 3 | 3 | 2 | 3 | 3 | | 3 | 3 | 3 | 3 | | | K1, K2 |
| CO 4 | 3 | 3 | 3 | | 3 | 3 | 3 | | 3 | 3 | 3 | | | K1, K2, K3 |
| CO 5 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | K2, K5, K6 |
| Wt. Avg. | 3 | 3 | 3 | 2 | 3 | 3.2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | Overall Mapping of the Course 2.9 | | | | | | | | | | | | | |
| | | | | | | | | | | | | 3.0 | | |

Correlation of POs/PSOs to each CO and make a corresponding mapping table.

| Cou | rse Code | | ECONOMICS OF INSTITUTIONS | | | | | | | | |
|-------------------|----------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------|---------------------------------------|--|--|--|--|--|
| (| Credits | FIVE (5) | · · | | | | | | | | |
| Hou | rs / Cycle | SIX (6) | | | | | | | | | |
| | ategory | Part - III a | Part - III a Core Theory | | | | | | | | |
| | emester | VI | | | | | | | | | |
| | ear of | From the academic year 2024 - 2025 onwards | | | | | | | | | |
| Imple | ementation | | | | | | | | | | |
| Course Objectives | | institutions. | The main aim of this course is to make students aware of the importance of economic institutions. It is essential to have a good deal of understanding about the role of economic institutions. | | | | | | | | |
| CO# | | Course Outco | ome(s) | | PSO ressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | |
| On con | npleting the c | ourse successful | ly, the student will be | able to | | | | | | | |
| CO 1 | Understand | the main charac | eteristics of economic | PSO 1 | [| K1 | | | | | |
| | institutions | and how economic | ic institutions evolved | | | | | | | | |
| | in response | e to economic s | ystems – Capitalism, | | | | | | | | |
| | Socialism ar | nd both. | | | | | | | | | |
| CO 2 | Understand | the dualistic | economic theories | PSO 2 | 2 | K2 | | | | | |
| | developed b | y various econor | nists who belonged to | | | | | | | | |
| | the differen | t school of Institu | itions | | | | | | | | |
| CO3 | Learn the o | concept of devel | opment - pattern of | PSO 4 | ı | К3 | | | | | |
| | growth and | l development – | stages of growth - | | | | | | | | |
| | unlimited s | supply of labor | ur – balanced and | | | | | | | | |
| | unbalanced | growth theory | | | | | | | | | |
| CO 4 | Study the c | ooperative move | ment such as | PSO 4 | 1 | K4 | | | | | |
| | cooperation | eties, role of | | | | | | | | | |
| | cooperation | in an economy. | | | | | | | | | |
| CO 5 | Learn the o | rganizational stru | actures of foreign | PSO 3 | 3 | K5 | | | | | |
| | _ | | ts and exports and | | | | | | | | |
| | trading hou | ses | | | | | | | | | |

| | SYLLABUS | | | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|------------------------------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY LEVEL |
| I | Meaning and Definitions of Economic Institutions - School of Economics of Institutions: Main characteristics - Social, Economical and Political Institutions: Nature and Significance of Institutional Approach in Economics - Veblon's, Common's and Mitchell's contribution to the theory of economic institutions: Economic system – Capitalism – Socialism | 12 | CO 1 & CO 2 | K1 |
| П | New Institutional Economics - Oliver Williamson's Four levels of social analysis – Contribution made by New Institutional Economists – Ronald Coase – North Douglass – Elinor Ostrom – Herbert Simon - A convergence of researchers resulted in founding the Society for Institutional & Organizational Economics. | 12 | CO 2 & CO 3 | K2 |
| Ш | Concept of Dualism – Social, Economical and Political dualism: Boeke's Social Dualism – Myint's Financial Dualism – Higgin's Technological Dualism – Prebisch's International Dualism – Inter-Regional and International Dualism – Seer's contribution to international dualism – Gunnar Myrdal's Theory of Cumulative Causation. | 12 | CO 3 & CO 4 | К3 |
| IV | The Concept of Development - Core Values of Development - Development Gap - Absolute development gap - Relative development gap - The New International Economic Order: Pattern of Growth and Development - Chenery's & Syrquin's Pattern of Development - Marx's Theory of Development - Rostow's Stages of Economic GrowthArthur Lewis Unlimited Supply of Labour - Balanced and Unbalanced Growth Theory | 12 | CO 4 | K4 |
| V | Meaning and Significance of Cooperation -Definition - Importance of Cooperation - Principle of Cooperation - Cooperative Doctrines - Ancient and Modern Form of Cooperation - Cooperative Societies - Cooperative | 12 | CO 5 | K5 |

| Credits: Place of Cooperatives in a Planned Economy - | | |
|--------------------------------------------------------------------|--|--|
| Role of Cooperation in a Dynamic Competitive | | |
| Economy - Cooperation and Economic Development | | |
| Cooperative Movement in India - National Level | | |
| Cooperative Institutions in India - Cooperative | | |
| Banking in India | | |
| | | |

- 1. Thirlwall A. P., Growth and Development (2017), 9th Edition, English Language Book Society (ELBS) Macmillan Press London.
- 2. Lekhi R.K. and Sing J. (2014), The Economics of Development and Planning, Kalyani Publishers, Ludhiana.

References

- 5. Michael P. Todaro and Stephen C. Smith. (2017), Economic Development, A 12th Edition, Pearson India Education Services Pvt. Ltd., Noida.
- 6. Alexander Grey & Thomson A.E. (1980), The Development of Economic Doctrine, Longman Group, London..
- 7. Taneja M.L. & Myer R.M. (2012), Economics of Development & Planning, Vishal Publishing Co, Jalandhar.
- 8. Hajela T.N. (2010), History of Economic Thought, Ane's Student Edition Ane Books, New Delhi.

Suggested Reading

- Hajela T.N (2010), Cooperation: Principles, Problems and Practice, Konark Publishers, New Delhi.
- Schumpeter J.A., A History of Economic Analysis, Oxford Press,

Web Resources

http://planningcommission.gov.in

http://civilaviation.nic.in http://mohfw.nic.in http://www.indianrailways.gov.in

http://rural.nic.in http://morth.nic.in http://shipping.gov.in

http://ssi.gov.in http://ssi.gov.in http://commin.nic.in

| Course Articulation Matrix | | | | | | | | | | | | | |
|----------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Programme Outcomes | | | | | | | Programme Specific Outcomes | | | | | Cognitive Level | |
| P 01 | P O2 | P 03 | P O4 | P O5 | PO 6 | PO 7 | PO 8 | PS O1 | PS O2 | PS O3 | PS O4 | PS O5 | |
| 1 | 2 | 3 | - | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | K1 |
| 1 | 2 | 2 | - | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | K2 |
| 1 | 2 | 3 | - | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | К3 |
| 1 | 2 | 2 | - | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | K4 |
| 1 | 2 | 2 | - | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | K5 |
| 1 | 2 | 2.4 | - | 2.2 | 2.2 | 1.8 | 2.2 | 2 | 2.4 | 2.4 | 2.4 | 2.4 | |
| | 1 1 1 1 1 | O1 O2 1 2 1 2 1 2 1 2 1 2 1 2 | P O1 P O2 P O3 1 2 3 1 2 2 1 2 3 1 2 2 1 2 2 1 2 2 | P O1 P O2 P O3 P O4 1 2 3 - 1 2 2 - 1 2 3 - 1 2 2 - 1 2 2 - 1 2 2 - | P O1 P O2 P O3 P O4 P O5 1 2 3 - 1 1 2 2 - 2 1 2 3 - 3 1 2 2 - 3 1 2 2 - 2 | Programme Outcome P O1 O2 O3 O4 O5 O5 P P O5 O5 O5 1 2 3 - 1 2 1 2 3 - 3 2 1 2 3 - 3 2 1 2 2 - 3 2 1 2 3 - 3 2 1 2 2 - 3 3 | Programme Outcomes P O1 O2 O3 O4 O5 O5 O6 O7 1 2 3 - 1 2 2 1 2 2 - 2 1 1 2 3 - 3 2 2 1 2 2 - 3 2 1 2 3 - 3 2 2 1 2 2 - 3 2 | Programme Outcomes P O1 O2 O3 O4 O5 O5 O6 O7 O8 1 2 3 - 1 2 2 2 1 2 3 - 2 2 2 1 2 3 - 3 2 2 1 2 3 - 3 2 2 1 2 3 - 3 2 2 1 2 2 - 3 2 1 2 3 3 - 3 2 2 1 2 3 3 - 3 2 3 1 2 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 | Programme Outcomes P O1 O2 O3 O4 O5 O5 O6 O7 | Programme Outcomes Programme Outcomes P O1 O2 O3 O4 O5 O5 O6 O7 O2 PO PO PO PO PO PO O2 PO PO PO PO PO PO O2 1 2 3 - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 3 - 3 2 2 2 2 3 2 2 2 2 2 1 2 2 2 - 3 2 2 2 2 2 2 2 2 2 1 2 2 2 - 3 2 2 2 2 2 2 2 2 2 1 2 2 2 - 3 2 2 2 2 2 2 2 2 2 1 2 2 2 - 3 2 3 2 3 2 3 2 2 2 2 | Programme Outcomes Programme Soutcomes P P O1 O2 O3 O4 O5 O5 O1 O2 O3 PO PO PO PO PO PO PO O2 O3 PS PS PS O1 O2 O3 1 2 3 - 1 2 2 2 2 2 2 3 3 2 2 2 2 2 3 3 1 2 3 - 3 2 2 2 2 2 3 2 3 2 2 2 2 2 2 1 2 2 2 - 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 - 3 2 3 2 3 2 2 2 2 2 2 2 2 | Programme Outcomes P O1 O2 O3 O4 O5 O5 O1 P O5 | Programme Outcomes Programme Specific Outcomes P O1 O2 O3 O4 O5 O5 O6 O7 |

Overall Mapping of the Course

PO = 2.02PSO = 2.12

| | | INDIAN | ECONOMY – POLIC | Y & PERFORMANCE | | | | | |
|--------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------|--|--|--|--|
| Co | ourse Code | | | | | | | | |
| C | redits | 5 | | | | | | | |
| Но | urs / Cycle | 6 | | | | | | | |
| | Category | Part III – a | Core | Theory | | | | | |
| | Semester | VI | | | | | | | |
| | ear of | From the academic year 2024-2025 onwards | | | | | | | |
| _ | lementa | | | | | | | | |
| | tion | This course provides students a thorough overview of India's economic journey post-independence, | | | | | | | |
| Cour Obje | ctives | examining polic Students will ana | ies and performance acro | ss agriculture, industry, service sectoral trends, and contemporary al development amidst global cris | s, and social sectors y challenges, including | | | | |
| CO# | | Course O | utcome(s) | PSO | Bloom's | | | | |
| | | | | Addressed | Taxonomy Levels (K1 to K5) | | | | |
| CO 1 | | | omic policies, reforms, and | | K1 | | | | |
| CO 1 | crises in In | dia since indepe | omic policies, reforms, and endence, encompassing the year plans, sectoral reforms, | * | K1 | | | | |
| | and signification changes like | ant events such as those during the | economic crises and policy late 1980s. | | | | | | |
| CO 2 | industry, se cropping pa | ervices, and social atterns, industrial social welfare in | performances in agriculture, al sectors, including major al policies, service sector measures like the Right to | | К2 | | | | |
| CO 3 | performance structure, in | es to analyze dustrial growth d initiatives like M | onomic policies and sectoral issues such as agrarian isparities and the impact of take in India and the Right | ian of | | | | | |
| CO4 | agriculture, scrutinizing variations, a sector, whi aspects like | industry, serving factors such as out and the impact of ile conducting | rmance indicators across ices, and social sectors, atput, employment, regional economic reforms on each thorough assessments of as and the functioning of the | | K4 | | | | |
| CO 5 | Evaluate to economic po | he effectiveness olicies, reforms, a | s and consequences of and sectoral performances, s for national development, | PSO 2, PSO 4 & PSO 5 | K5 | | | | |

| social welfare, and addressing contemporary challenges | |
|--------------------------------------------------------|--|
| like farm indebtedness, demographic shifts, and the | |
| impact of global events such as the Covid-19 pandemic. | |

| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONOMY |
|------|-------------------------------------------------------------------------------------------------------------------|-------|-----|---------------------|
| | | | | LEVEL |
| I | | 12 | CO1 | K1 to K5 |
| | ECONOMIC DEVELOPMENT SINCE INDEPENDENCE | | to | |
| | Growth of the Indian economy during 1950-1990 - Planning | | CO5 | |
| | Commission- five Year Plans - Objectives, achievements and | | | |
| | failures of Planning - Economic crisis during the late 1980s - | | | |
| | Economic Reforms – Banking sector reforms - Reforms in tax | | | |
| | policy - Reforms in the external sector -Reforms in Labour market. | | | |
| II | POLICIES AND PERFORMANCE IN AGRICULTURE | 18 | CO1 | K1 to K5 |
| - | Major cropping patterns in different parts of the country, | 10 | to | 111 10 112 |
| | different types of irrigation - Growth; productivity; agrarian | | CO5 | |
| | structure and technology, capital formation - Agricultural | | | |
| | marketing - transport and marketing of agricultural produce and | | | |
| | issues and associated constraints - Food security and food policy - Pricing and procurement - WTO and Indian | | | |
| | agriculture- Direct and indirect farm subsidies and minimum | | | |
| | support prices. | | | |
| III | | 15 | CO1 | K1 to K5 |
| | POLICY AND PERFORMANCE IN INDUSTRY | | to | |
| | Industry – industrial policies (1948, 1956, 1991), small scale | | CO5 | |
| | industries, key industries, industrial sickness, the different | | | |
| | committees, disinvestment, PSU policy, industrial finance- | | | |
| | Output, employment and productivity growth - Regional variation of industrial growth - Public sector; competition | | | |
| | policy - Foreign direct investment in industry - Economic | | | |
| | reforms and industry – Make in India. | | | |
| IV | | 15 | CO1 | K1 to K5 |
| | TRENDS AND PERFORMANCE IN SERVICE | | to | |
| | Formal and informal sectors - Banking and insurance- trade in | | CO5 | |
| | services - education - health - transport and communication- | | | |
| | roadways- railways- waterways - airways - power - | | | |
| | information technology enabled services – trends and | | | |
| | directions- PDS- objectives, functioning, limitations; issues of buffer stocks, food security. | | | |
| V | outlet stocks, food security. | 15 | CO1 | K1 to K5 |
| • | POLICIES AND PERFORMANCES IN SOCIAL SECTOR | 13 | to | 111 00 110 |
| | Education and health: Basic problems and Government | | CO5 | |
| | measures, Education for all: Right to Education (RTE) Act | | | |
| | 2009- Skill Development- Aftereffects of demonetisation- | | | |

| Impact of Covid-19-Demographic Dividend- Universal Basic | | |
|----------------------------------------------------------|--|--|
| Income- Farm indebtedness and Agriculture policy. | | |

- 14. Dutt R. and Sundharam K. P. M. Indian Economy. S. Chand & Company Ltd., New Delhi.
- 15. Indian Economy Datt and Sundharam, GauravDatt and AshwaniMahajan, S Chand Publications, 7th Revised Edition
- 16. Indian Economy Since Independence, ed by Uma Kapila (2008-09), Academic Foundation, Revised Nineteenth Edition.

References

- 11. Kurien C.T (1992) The Economy: An Interpretative Introduction Sage Publications
- 12. Misra, S. K. and Puri V. K. Indian Economy Its Development Experience. Himalaya Publishing House, Mumbai Reference Books.
- 13. Government of India (Current Year): Economic Survey, Ministry of Finance, New Delhi (Various Issues)
- 14. Uma Kapila (2018), Indian Economy: Performance and Policies, 2018-19 19th edition

Suggested Readings

- 11. Uma Kapila (editor) (2018), Indian Economy Since Independence: A Comprehensive and Critical Analysis of India's Economy, 1947-2018, Academic Foundation.
- 12. Jean Dreze and Amartya Sen, 2013. An Uncertain Glory: India and its Contradictions, Princeton University Press. Reetika Khera, 2011, —India's Public Distribution System: Utilisation and Impact Journal of Development Studies.
- 13. Kaushik Basu and A. Maertens, eds, 2013, The New Oxford Companion to Economics, Oxford University Press.

Web Resources

- 10. https://hdr.undp.org/
- 11. https://www.niti.gov.in/sites/default/files/2023-08/India-National-Multidimentional-Poverty-Index-2023.pdf
- 12. https://www.niti.gov.in/

| | Course Articulation Matrix | | | | | | | | | | | | | | |
|--------------------|----------------------------|------|------|-----|------|-----|-------|-----|-----------------------------|------|------|------|-----------------|------|-----------------|
| Course Outcomes | Programme Outcomes | | | | | | | | Programme Specific Outcomes | | | | Cognitive Level | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | 2.5 | 2.25 | | | | | | | | 2.5 | 2 | | | | K1 |
| CO 2 | 1.5 | 2.25 | 2.5 | | | | | | | | 1.5 | 2.5 | | | K2 |
| CO 3 | 2 | 2 | 2 | | | 2 | 1.5 | 1.5 | | | 2.5 | 2 | 225 | | K3 |
| CO 4 | 2 | 2 | 2.25 | 2 | 2.25 | | 2 | 2 | | | 2.25 | 2 | | 2 | K4 |
| CO 5 | 2 | 2 | 2 | 2 | 2.25 | 2 | 2.25 | 2.5 | | | 2.25 | | 2.25 | 2 | K5 |
| Wt. Avg. | 2 | 2.1 | 2.12 | 2 | 2.25 | 2 | 1.916 | 2 | | 2.5 | 2.1 | 2.16 | 2.25 | 2 | |
| | | | | | | | | | | | D(| ` | | | |

PO -2.048/PS O - 2.202

Economics of Money and Banking

| Cour | rse Code | | | | | | | | |
|----------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------|---------------------------------------|--|--|--|
| C | redits | 5 | | | | | | | |
| Hour | rs / Cycle | 6 | | | | | | | |
| Ca | tegory | Part | Core | | Theory | | | | |
| | mester | IV | | | | | | | |
| | ear of | 2024-2025 | | | | | | | |
| Imple | mentation | | | | | | | | |
| Course (| Objectives | Monetary and Financial Institution play a very crucial role in the working of an economy. A student is required to know the theory and working of money and financial markets. This paper is designed to provide the undergraduate students a basic knowledge in the operations of money and financial system in general and in India in particular. | | | | | | | |
| CO# | | Course | Outcome(s) | | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) | | | |
| On comp | pleting the co | urse succes | sfully, the student | will be ab | le to | | | | |
| CO 1 | Outline the | evolution | of money and the | various | PSO 1 | K1 | | | |
| | exchange sta | andards and | l helps in understar | nding the | | | | | |
| | nature and | role finan | cial intermediaries | s in the | | | | | |
| | market. | | | | | | | | |
| CO 2 | to analyse people's deciside, as we determinants supply side to necessary to | and interprisions to howell as iconstitutions in iconstitution in iconstitution in iconstitution in iconstitution iconstitution iconstitution in iconstitution iconstituti | loration students wi ret the factors infold money from the lentify and evaluated money supply for developing analytic mend the complex and its implicati | fluencing demand late the from the cal skills kities of | PSO 3 PSO 5 | K2 | | | |
| | _ | - | oolicy-making. | .0115 101 | | | | | |
| CO 3 | played by RI | BI through | redit creation and the various bank reforms structure in India. | | PSO 3 | K3 | | | |
| CO 4 | | | y and capital market institutions to revie | | PSO 2 | K4 | | | |
| CO 5 | monetary po | olicy in Ind mies and d | indicators and targer ia and compare it evise effective mean India. | with the | PSO 2 PSO 4 | K5 | | | |

| | SYLLABUS | | | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------------------------------|
| UNIT | CONTENT | HOURS | COs | BLOOM'S TAXONO MY LEVEL |
| I | Module I: Money and Exchange Money in Economic system: Evolution of money | 10 | CO 1 to | K1 to K5 |
| | Money in Economic system: Evolution of money, Functions of money-Classification of money-Monetary System Criterion: Actual Money and Money of account, Commodity money and Representative money-Metallic and Paper money: Standard money and Token money, Representative Paper Money, Convertible Paper Money, Inconvertible paper money , Fiat Money, Credit Money-Acceptability Criterion: Legal Tender Money: Limited and unlimited Legal Tender Money-Non legal Tender or Optional Money: Money of Account and Money Proper- Types of Monetary Standards: The Gold Standard-Gold Currency Standard, Gold Bullion Standard, Gold Exchange Standard, Gold Reserve Standard, Gold Parity Standard –Bimetallic Standard-Gresham's Law – Paper Currency Standard-Digital money: Cryptocurrencies. Money and Financial System-Properties of financial assets-Selection Criteria-Role of Financial markets-Functions of financial intermediaries- Financial intermediation and capital accumulation. | | CO 5 | |
| II | Module II: Theories on Money. | 20 | CO 1 | K1 to |
| | Demand for Money Classical and Keynesian View, Tobin's Portfolio Approach to Demand for money, Baumol's Inventory Approach to demand for money, Friedman's Quantity | | to CO 5 | K5 |

| | Theory of Money-A restatement-Patinkin's Real Balance effect | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|-------|
| | Money Supply | | | |
| | Standard System of Note Issue: Simple deposit system, Fixed Fiduciary System, Maximum Fiduciary System, Proportion Reserve System, Minimum Reserve System-Determinants of money supply-Money Multiplier-Measures of Money Supply in India. | | | |
| III | Module III: Banking System | 15 | CO 1 | K1 to |
| | Commercial Banks- Types of Scheduled Commercial Banks: Scheduled Public Sector Banks, Scheduled Private Sector Banks, Scheduled Small Finance Banks, Scheduled Payments Banks, Scheduled Regional Rural Banks, Scheduled Foreign Banks in India- Non- scheduled banks-Commercial banks: Functions and Operations, Credit creation, Structure of Balance sheet, Bank nationalisation in India, Reforms in the Indian System. | | to CO 5 | K5 |
| | Central Bank : Role and functions-Reserve Bank of India: Functions and working- Development in Indian Banking. | | | |
| | Cooperative Banks – Development Banks - Merchant Banking-Universal Banking-Payment Banks (Unified Payment Interface and Wallets)-Banking and Insurance. | | | |
| | Banking reforms: Narasimham Committee-1991 and 1997. | | | |
| IV | Module IV: MONEY AND CAPITAL MARKETS | 15 | CO 1 | K1 to |
| | Money Market: Structure and Functions, Features of Indian Money market- Role of unorganised Money Markets in India. | | to CO 5 | K5 |

| | Capital Market: Primary and secondary markets-SEBI: functions. Foreign exchange Market-Types of exchange rate: Fixed, Flexible and managed floating exchange rate-Hedging Operations-Convertibility in Current and Capital Account-Tarapore Committee 1997. | | | |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|----------|
| V | Module V: MONETARY POLICY IN INDIA Monetary policy: Objectives, Targets and Indicators, Instruments of credit control in India—Operating framework of monetary policy of India: Monetary Policy Committee, Inflation Targeting in India, Liquidity Adjustment Facility, Market Stabilisation Scheme-Transmission Mechanism- Monetary policy in closed and open economies. | 15 | CO 1 to CO 5 | K1 to K5 |

Textbooks:

- Goldfield and Chandler- The Economics of Money and Banking, Harper and Row, Chapters 1,2,3,4,5,6,7,8,13,17,18,20,21.
- K.P.M. Sundaram-Money, Banking, Trade and Finance, Sultan Chand, part-I, chapter 1,2,3,4,5,6,7
- M.C Vaish Money, Banking, Trade and Finance, Wiley Eastern, Chapter 3,5,7,8,10, 22,23,27, 28,29.
- Michael Parkins-Modern Macro Economics Philip Allen Publishing Limited, Chapter 14,16.
- Handa, Jagdish- Monetary economics. Routledge, 2002.

References:

List of scheduled commercial banks

https://m.rbi.org.in/scripts/bs_viewcontent.aspx?Id=3657

Suggested Reading

• Singh, R. (2017). *INDIAN ECONOMY EBOOK*. McGraw-Hill Education.

Web Resources

Channels of monetary transmission:

https://www.nber.org/system/files/working_papers/w5464/w5464.pdf

https://mpra.ub.uni-muenchen.de/51136/

Effectiveness of monetary signals in India

https://www.sciencedirect.com/science/article/abs/pii/S0161893807000890

| | | | | | | Course | Articula | tion Mat | rix | | | | | | |
|-------------------|----|-----|-----|--------|-----|--------|----------|----------|--------------------|----------|-----|---------|-----|-----|------|
| Course Outcome | | | | Progra | | | | outcomes | Cognitive Level | | | | | | |
| | РО | РО | РО | РО | PO3 | PO4 | РО | PO6 | PO7 | PO8 | PSO | PSO | PSO | PSO | PSO5 |
| | 1 | 2 | | | 5 | | | | 1 | 2 | 3 | 4 | | | |
| CO 1 | 3 | 2 | - | - | - | - | - | - | 3 | - | - | - | - | K1 | |
| CO 2 | - | 3 | 3 | 3 | 3 | - | 3 | 3 | - | - | 3 | - | 3 | K2 | |
| CO 3 | - | 2 | 3 | - | - | - | - | 1 | - | - | 3 | - | - | К3 | |
| CO 4 | 3 | 3 | - | - | - | - | - | 1 | - | 2 | - | - | - | K4 | |
| CO 5 | 3 | 3 | 2 | - | - | 2 | 2 | 2 | - | 2 | - | 3 | - | K5 | |
| Wt. | 3 | 2.6 | 2.7 | 3 | 3 | 2 | 2.5 | 2.5 | 3 | 2 | 3 | 3 | 3 | | |
| Avg. | | | | | | | | | | | | | | | |
| | • | | | | • | | Overa | ll Mapp | ing of th | ne Cours | ie. | PO – 2. | | | |

ENVIRONMENTAL ECONOMICS

| Cou | rse Code | | | | | | | | | | | |
|--------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------|--|--|--|--|--|--|--|
| | redits | 4 | | | | | | | | | | |
| | rs / Cycle | 6 | | | | | | | | | | |
| | ategory | Part | Core | Theory | / Practical | | | | | | | |
| | mester | VI | | | | | | | | | | |
| | ear of | | From the academic year 2024-2025 onwards (this is required as some of the courses | | | | | | | | | |
| Imple | mentation | may not be re | vised during particular | revisions) | | | | | | | | |
| Course | Objectives | To be Listed in bullet points /Describe in 100 words The paper aims at introducing the subject at an undergraduate level. The objective is to help students address environmental issues using economic tools and envision sustainable development ideas, environmental quality degradation, and negative externalities owing to rapid industrialization and issues in hand. Climate change, deforestation, and unsustainable use of resources are issues that have been drawing attention to the development agenda. An understanding of the interactions between the environment and economics is essential to formulate strategies for sustainable development, and framing suitable policies to tackle environmental issues. A minor study on prevalent environmental issues and the application of economic principles to resolve the issues is a mandatory requirement for course completion. | | | | | | | | | | |
| CO# | | Course Outo | come(s) | PSO Addressed | Bloom's Taxonomy Levels (K1 to K5) | | | | | | | |
| On com | pleting the co | urse successfull | y, the student will be al | ole to | | | | | | | | |
| CO1 | and environi principle. E environment externalities | mental issues, int nvision sustaina tal quality deg owing to rapio | nvironmental economics terlinkages, and material able development ideas radation and negative d industrialization, and of the environment and | PSO 1 PSO 3 PSO 4 | К2 | | | | | | | |
| CO 2 | Acquire kno developmen | | concept of sustainable arious approaches to the ion in India. | PSO 2 PSO 4 | К3 | | | | | | | |
| CO3 | Analyze vari | ous theories und resources and | erlying the judicious use sustainable economic | PSO 1 PSO 3 PSO 4 | K4 | | | | | | | |
| CO 4 | | 1 ' | nd Resource Economics nomics. Understand the | PSO 1 PSO 2 | K5 | | | | | | | |

| | Global environmental issues and policies and discuss methods to solve issues | PSO 3 PSO 5 | |
|------|------------------------------------------------------------------------------|----------------|----|
| CO 5 | Perceive, Appraise, and establish the linkages between | PSO 2 | |
| | the various dimensions related to health and the Global | PSO 4 | K6 |
| | Environment in the Development Process | PSO 5 | |

| | SYLLABUS | | | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|------------------------------|
| UNIT | CONTENT | HOURS | Cos | BLOOM'S TAXONOMY LEVEL |
| I | Environmental Economics: Environmental economics and environmental policy - Environmental economics and ecological economics – Environmental Economics and resource economics — Important issues in environmental economics Environmental Problems and Policy solutions -The quality of the environment — environmental pollution — The cost of environmental protection-Remaining problems Social Choice: Environmental protection -Three examples — Individual preference regarding environmental protection — Social choice from individual values — Criticism of the utilitarian perspective — Three problems revisited — conclusions | 10 | CO 1 CO 4 | KI, K2, |
| II | Efficiency and Markets -What is efficiency – Efficiency and competitive markets – Supply , demand and efficiency – Social Cost – Benefit Analysis Market Failure: Public Bads and Externalities Public goods and bads – Optimal provision of public goods and bads – Pricing public goods and bad – Externalities Property Rights -Introduction – The pollution and the victim: Who should have rights – The Coase theorem – Problems of public bads and bargaining - Bargaining within groups – The policy significance of Coase theorem | 20 | CO1 CO2 CO3 | K3, K3, K4 |
| III | Pigovian Fees - Pigovian fees: Single Polluter – Multiple polluters: The equi-marginal | | CO 3 CO 4 | K4, K5 |

| | principles – Fees versus subsidies – Imperfect competition Regulating Pollution Fees -Regulating Pollution – Basic issues in environmental regulations Emission fees and Marketable permits | 20 | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------|------------|
| IV | Environmental quality a public type good – Valuing the environment in the absence of markets. Audits, Enforcements -Monitoring the environment. Open access resources- incentives in environmental regulations Risk and Uncertainty -What is risk? – Making choices about risk – Regulating risk | 15 | CO 3 CO 4 | K4, K5 |
| V | International and interregional issues -Income effect and demand for environmental quality – zone of environmental pollution – Transboundary pollution – issues – green house effect- acid rain- climatic changes Environmental Regulations economy wide - Green national accounting Environmental summits – Rio de Jeniro – Doha round | 10 | CO 2 CO 5 | K4, K5, K6 |

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- 2. Natural Resource and Environmental Economics, Roger Pearman, Yue Ma, David Pearce
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- 2. Ulaganathan, Sankar (2006), Environmental Economics, Oxford University Press, New Delhi.
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- 4. Singh & Shishodia (2010), Environmental Economics: Theory and Applications, Sage Publications, New Delhi

| Course Articulation Matrix | | | | | | | | | | | | | | | |
|-------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------|---------|-----------------|------|------|-----------------|
| Course Outcomes | Programme Outcomes | | | | | | | | | | rogramm | Cognitive Level | | | |
| | PO1 | PO2 | PO3 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Cognitive Level |
| CO 1 | - | 2 | - | - | - | - | - | - | | 2 | | 2 | 2 | | K 2 |
| CO 2 | | 2 | 2 | | | | 2 | 2 | 2 | | 2 | | 2 | | K 3 |
| CO 3 | | 2 | 2 | | | | 2 | 2 | 2 | 2 | | 2 | 2 | | K4 |
| CO 4 | | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 2 | K 5 |
| CO 5 | | 2 | 3 | 2 | | | 2 | 2 | 2 | | 2 | | 2 | 2 | K 6 |
| Wt. Avg. | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | |
| Overall Mapping of the Course | | | | | | | | | | PO-2 /PSO- | -2 | | | | |