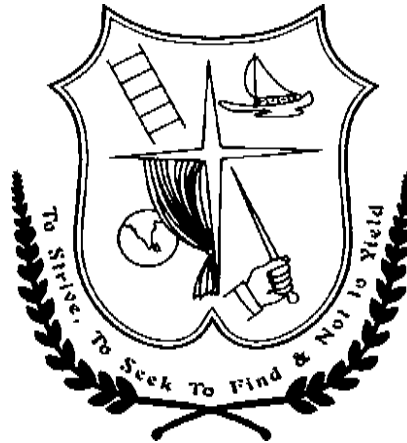


**ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS)
CHENNAI - 600 008**

POST GRADUATE & RESEARCH

DEPARTMENT OF ECONOMICS



M.A. ECONOMICS

SYLLABUS

Choice Based Credit System

Outcome Based System

(Offered from the Academic Year 2021-2022)

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DEPARTMENT OF ECONOMICS

REVISED SYLLABUS OF JULY 2021

Department of Economics is revising syllabi with effect from the academic year 2021 - 2022 with CBCS for M.A. Economics & M.A Business Economics as specified by the Government of Tamil Nadu that will seek to build the capacity of the students and provide inputs for their social service and social analysis capabilities.

Every academic year is divided into two semester sessions. Each semester will have a minimum of 90 working days and each day will have 5 working hours. Teaching is organized into a modular pattern of credit courses. Credit is normally related to the number of hours a teacher teaches a particular subject. It is also related to the number of hours a student spends learning a subject or carrying out an activity.

PREAMBLE

The Department of Economics submits changes and additions suggested in the PG curricula that are given in the ensuing pages.

- Reorganization of Courses in the PG Programmes as specified by TANSICHE
- Modification of course content in courses based on employability of the students and the needs of the industries.
- Changes in the course title based on revised contents of curricula and course titles.
- Introduction of new innovative courses.

REGULATIONS

ELIGIBILITY FOR ADMISSION:

Candidates for admission to the first year of the **Degree of M.A. Economics & M.A Business Economics** course shall be required to have passed B.A. Economics, B.Sc Mathematics, B.Sc Statistics /B.Com/B.B.A./B.B.M/B.Com (C.S) or any Under Graduate Degree in social sciences conducted by the University of Madras or an Examination accepted as equivalent thereto by the Syndicate of the University of Madras.

ELIGIBILITY FOR THE AWARD OF DEGREE:

A candidate shall be eligible for the award of the Degree only if she has undergone the prescribed course of study for a period of not less than two academic years and passed the examinations in all the four semesters prescribed.

COURSE OF STUDY:

The main subject of study for Master's Degree shall consist of the following:

CORE COURSES

ELECTIVES

SOFT SKILLS

INTERNSHIP

PASSING MINIMUM:

A candidate shall be declared to have passed in each paper/practical of the main subject of study wherever prescribed, if she secured NOT LESS THAN 50 percent of the marks prescribed for the examination.

CLASSIFICATION OF SUCCESSFUL CANDIDATES:

Successful candidates passing the examination and securing the marks (i) 60 percent and above and (ii) 50 percent above but below 60 percent in the aggregate shall be declared to have passed the examination in the FIRST and SECOND class respectively.

Candidates who pass all the examinations prescribed for the course in the FIRST APPEARANCE ITSELF ALONE are eligible for ranking.

PROGRAMME EDUCATIONAL OBJECTIVES

On obtaining a Postgraduate Degree the students will be able to:

- PEO1:** Display higher order thinking in the knowledge domain and demonstrate professional skills
- PEO2:** Contribute to the advancement and application of relevant knowledge by self-directed learning
- PEO3:** Extend and integrate knowledge and skills to design and develop novel products and explore innovative solutions to national and international goals of development.
- PEO4:** Exercise management skills and develop social interactions in a responsive, ethical and constructive way to meet global standards of excellence in all spheres of activity.
- PEO5:** Strive for social and economic equity based on the need for gender parity and ecological sustainability

PROGRAMME OUTCOMES

ARTS STREAM - POSTGRADUATE COURSE

- PO1 :** Apply, analyze and review the knowledge gained through the study of humanities to address Political, Socio-Economic and Gender Issues and contribute to policy/law making.
- PO2 :** Critically engage with history, human rights, linguistic, culture, economy, inclusivity and sustainability
- PO3 :** Aid in the application of advanced mathematical, statistical and econometric tools in solving socio-economic issues.
- PO4 :** Inculcate skills to evaluate, innovate and integrate the contemporary issues and motivate further professional learning and research
- PO5 :** Enhance ethical values, upgrade communicative and employability skills.
- PO6 :** Gain quality education, global in perspective to contribute towards holistic development and serve the community at large.

PROGRAM SPECIFIC OUTCOMES

M.A. ECONOMICS

- PSO1:** To develop an understanding of advanced theoretical aspects in Economics and its applications in problem solving/decision making.
- PSO2:** Critically review the various regional, national and global economic issues.
- PSO3:** Analyse the implications of economic variables using data and models for solving development issues.
- PSO4:** To enhance their professional, employability and career prospects.
- PSO5:** To acquire knowledge on core aspects in financial, health and environmental economics and formulate policies for economic and sustainable development.
- PSO6:** To focus on socio-economic issues in the preparation of individual projects with Mathematics, Statistics and Econometric tools using software.

ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS) CHENNAI-08
PROGRAMME PROFILE - M.A. ECONOMICS
CURRICULUM TEMPLATE (2021-22 ONWARDS)
POST GRADUATE PROGRAMME PROFILE
DEPARTMENT OF ECONOMICS
COURSE CODES AND CREDITS

TOTAL MINIMUM CREDITS: 91

TEACHING HOURS: 120

S. N	CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
I SEMESTER											
1	Core 1	Advanced Microeconomic Theory	3P21/1C/AME// 8P21/1C/AME	3	3	0	6	4	40	60	100
2	Core 2	Public Economics	3P21/1C/PUE	3	3	0	6	4	40	60	100
3	Core 3	Mathematics for Economists	3P21/1C/MAE// 8P21/1C/MAE	3	3	0	6	4	40	60	100
4	Core 4	Statistical Methods for Economists	3P21/1C/SME// 8P21/1C/SME	3	3	0	6	4	40	60	100
5	Elective 1	Financial Economics Economics of Law	3P21/1E1/ FIE// 8P21/1E1/ FIE 3P21/1E1/ ECL// 8P21/1E1/ ECL	2	2	0	4	3	40	60	100
6	Soft Skill 1	Personality Enrichment for Women					2	2	-	50	50
II SEMESTER											
7	Core 5	Macroeconomic Theory and Analysis	3P21/2C/MTA// 8P21/2C/MTA	3	2	0	5	4	40	60	100
8	Core 6	Health Economics	3P21/2C/HEE	3	2	0	5	4	40	60	100
9	Core 7	Econometric Methods	3P21/2C/ECM// 8P21/2C/ECM	3	2	0	5	4	40	60	100
10	Core 8	Statistics with Computer Applications	3P21/2C/SCA// 8P21/2C/SCA	2	2	1	5	4	40	60	100
11	Elective 2	Economics of Social Issues	3P21/2E2/ESI	3	1	0	4	3	40	60	100
12	Extra Disciplinary Elective 1	Health Care Management (Other Departments)	3P21/2E/ HCM	3	1	0	4	3	40	60	100
13	Soft Skills 2	Interpersonal Communication					2	2	-	50	50
14	Internship	During Summer Vacation					Min. 21 days	2			

III SEMESTER											
15	Core 9	Indian Economy Problems and Policies	3P21/3C/IEP// 8P21/3C/IEP	3	3	0	6	4	40	60	100
16	Core 10	Monetary Economics	3P21/3C/MOE// 8P21/3C/MOE	3	2	0	5	4	40	60	100
17	Core 11	Research Methodology and Computer Applications in Economics	3P21/3C/RMC// 8P21/3C/RMC	2	2	1	5	4	40	60	100
18	Elective 3	Behavioural Economics and Decision Making	3P21/3E3/BED	3	1	0	4	3	40	60	100
19	Elective 4	Economics of Infrastructure Gender Economics	3P21/3E4/ ECI 3P21/3E4/ GEE	3	1	0	4	3	40	60	100
20	Extra Disciplinary Elective 2	Hospital Administration (Other Departments)	3P21/3E/HOA	3	1	0	4	3	40	60	100
21	Soft Skill 3	Yoga and Meditation for Better Living	3P21/3S/YMB// 8P21/3S/YMB	1	0	1	2	2	-	50	50
IV SEMESTER											
22	Core 12	Economics of Growth and Development	3P21/4C/EGD// 8P21/4C/EGD	3	3	0	6	4	40	60	100
23	Core 13	International Economics	3P21/4C/INE	3	3	0	6	4	40	60	100
24	Core 14	Environment and Resource Economics	3P21/4C/ERE// 8P21/4C/ERE	3	3	0	6	4	40	60	100
25	Core 15	Advanced Managerial Economics	3P21/4C/AME// 8P21/4C/AME	3	1	0	4	4	40	60	100
26	Project	Project	3P21/4C/PRO				6	3	40	60	100
27	Soft Skill 4	Employability Skills	3P21/4S/EMS// 8P21/4S/EMS	2	0	0	2	2	-	50	50
		OPTIONAL EXTRA CREDITS									
I	Extra Credits (OPTIONAL)	Self-Study (Semester III) Population Studies	3P21/3SS/POS	-	-	-	-	2	-	100	100

L = Lecture Hours **T = Tutorial Hours** **P=Practical Hours** **H = Hours per week**
C= Credits **CA=Continuous Assessment** **SE=Semester Examinations**
MM=Maximum Marks

Extra Credits (Optional for Advanced Learners)

1. Self-Study Paper – Population Studies

3P21/3SS/POS//8P21/3SS/POS

2. MOOC Courses (One Course per year)

SWAYAM

NPTEL

COURSERA

Duration of the Course

No. of Credits

4 weeks

1

8 Weeks

2

12 Weeks

3

EVALUATION PATTERN FOR CONTINUOUS ASSESSMENT-PG

INTERNAL VALUATION BY COURSE TEACHER/S

CORE/ELECTIVE/PROJECT-THEORY PAPERS

COMPONENT	TIME	MAX.MARKS	CA MARK
1. TEST I	2HRS	50 MARKS (TO BE CONVERTED)	10
2. TEST II	2HRS	50 MARKS (TO BE CONVERTED)	10
3. ASSIGNMENT/SEMINAR/FIELDVISIT			10
4. PARTICIPATORY LEARNING/MOCK VIVA FOR PROJECT			10
TOTAL			40

SOFT SKILL PAPERS

COMPONENT	TIME	MAX.MARKS
1. NO INTERNALS		

CA QUESTION PAPER PATTERN – PG

Knowledge Level	Section	Word Limit	Marks	Total
K 4	A-2/4x5 Marks	500	10	50
K4. K 5	B-2/3x20 Marks	1200	40	

RUBRICS FOR CONTINUOUS ASSESSMENT

Assignment	Content/originality/Presentation/Schematic Representation and Diagram/Bibliography
Seminar	Organisation/Subject Knowledge/Visual Aids/Confidence level/presentation-Communication and Language
Field Visit	Participation/Preparation/Attitude/Leadership
Participation	Answering Questions/Clearing Doubts/Participating in Group Discussions/Regular Attendance
Case Study	Finding the Problem/Analysis/Solution/Justification
Problem Solving	Understanding Concepts/Formula and Variable Identification/Logical Sequence/Answer
Group Discussion	Preparation/Situation Analysis/Relationship Management/Information Exchange/Delivery Skills
Flipped/Blended Learning	Preparation/Information Exchange/Group Interaction/Clearing Doubts

- FIRST FOUR RUBRICS SHOULD BE INCLUDED.
- OTHERS ARE OPTIONAL BASED ON TEACHING-LEARNING METHODOLOGY ADOPTED FOR THE PROGRAMME OF STUDY

END SEMESTER EVALUATION PATTERN- PG

THEORY PAPERS

SEMESTER I/II/III/IV

DOUBLE VALUATION BY COURSE TEACHER AND EXTERNAL EXAMINER

MAXIMUM MARKS : 100 TO BE CONVERTED TO 60

PASSING MARKS : 50

SOFT SKILLS PAPERS

SEMESTER I/II/III/IV

SINGLE VALUATION BY COURSE TEACHER

MAXIMUM MARKS : 50

PASSING MARKS : 25

PROJECT PAPER

SEMESTER: IV

DOUBLE VALUATION BY RESEARCH SUPERVISOR AND EXTERNAL EXAMINER

DISSERTATION : 40

VIVA : 20

MAXIMUM MARKS : 60

PASSING MARKS : 30

INTERNSHIP

I YEAR: SEMESTER II (Summer Vacation)

DURATION: 21 DAYS

COURSE PROFILE – M.A ECONOMICS

SEMESTER -I

CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
Core 1	Advanced Microeconomic Theory	3P21/1C/AME// 8P21/1C/AME	3	3	0	6	4	40	60	100
Core 2	Public Economics	3P21/1C/PUE	3	3	0	6	4	40	60	100
Core 3	Mathematics for Economists	3P21/1C/MAE/ 8P21/1C/MAE	3	3	0	6	4	40	60	100
Core 4	Statistical Methods for Economists	3P21/1C/SME// 8P21/1C/SME	3	3	0	6	4	40	60	100
Elective 1	Financial Economics Economics of Law	3P21/1E1/ FIE// 8P21/1E1/ FIE 3P21/1E1/ ECL// 8P21/1E1/ ECL	2	2	0	4	3	40	60	100
Soft Skill 1	Personality Enrichment for Women					2	2	-	50	50
	TOTAL					30	21			

SEMESTER -II

CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM	
Core 5	Macroeconomic Theory and Analysis	3P21/2C/MTA// 8P21/2C/MTA	3	2	0	5	4	40	60	100	
Core 6	Health Economics	3P21/2C/HEE	3	2	0	5	4	40	60	100	
Core 7	Econometric Methods	3P21/2C/ECM// 8P21/2C/ECM	3	2	0	5	4	40	60	100	
Core 8	Statistics with Computer Applications	3P21/2C/SCA// 8P21/2C/SCA	2	2	1	5	4	40	60	100	
Elective 2	Economics of Social Issues	3P21/2E2/ESI	3	1	0	4	3	40	60	100	
Extra Disciplina ry Elective 1	Health Care Management (Other Departments)	3P21/2E/ HCM	3	1	0	4	3	40	60	100	
Soft Skills 2	Interpersonal Communication					2	2	-	50	50	
Internship	During Summer Vacation		Min.21 days					2			
	TOTAL					30	26				

SEMESTER - III

CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
Core 9	Indian Economy Problems and Policies	3P21/3C/IEP// 8P21/3C/IEP	3	3	0	6	4	40	60	100
Core 10	Monetary Economics	3P21/3C/MOE// 8P21/3C/MOE	3	2	0	5	4	40	60	100
Core 11	Research Methodology and Computer Applications in Economics	3P21/3C/RMC// 8P21/3C/RMC	2	2	1	5	4	40	60	100
Elective 3	Behavioural Economics and Decision Making	3P21/3E3/BED	3	1	0	4	3	40	60	100
Elective 4	Economics of Infrastructure Gender Economics	3P21/3E4/ ECI 3P21/3E4/ GEE	3	1	0	4	3	40	60	100
Extra Disciplinary Elective 2	Hospital Administration (Other Departments)	3P21/3E/HOA	3	1	0	4	3	40	60	100
Soft Skill 3	Yoga and Meditation for Better Living	3P21/3S/YMB// 8P21/3S/YMB	1	0	1	2	2	-	50	50
	TOTAL					30	23			

SEMESTER – IV

CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
Core 12	Economics of Growth and Development	3P21/4C/EGD// 8P21/4C/EGD	3	3	0	6	4	40	60	100
Core 13	International Economics	3P21/4C/INE	3	3	0	6	4	40	60	100
Core 14	Environment and Resource Economics	3P21/4C/ERE// 8P21/4C/ERE	3	3	0	6	4	40	60	100
Core 15	Advanced Managerial Economics	3P21/4C/AME// 8P21/4C/AME	3	1	0	4	4	40	60	100
Project	Project	3P21/4C/PRO				6	3	40	60	100
Soft Skill 4	Employability Skills	3P21/4S/EMS// 8P21/4S/EMS	2	0	0	2	2	-	50	50
	OPTIONAL EXTRA CREDITS									
Extra Credits (OPTIONAL)	Self-Study (Semester III) Population Studies	3P21/3SS/POS	-	-	-	-	2	-	100	100
	TOTAL					30	21			

TEACHING METHODOLOGY ADOPTED BY THE COURSE TEACHERS:

- Lecture (Chalk and Talk-OHP-LCD)
- Flipped Learning/Blended Classroom-E Content, Videos (YouTube)
- Problem Solving-Group Discussion-Role Modeling
- Quiz-Seminar
- Peer Learning
- Case Studies Analysis
- Field Visits/Industrial Visit
- Power Point Presentations
- Self-Study Papers
- Guest Lectures
- Listening Speaking Reading Writing (LSRW) Technique
- E-learning through ecweconomics blog
- Google Classroom
- LMS
- Slide Share
- Kinemaster
- Podcast

SEMESTER I
ADVANCED MICROECONOMIC THEORY

Total Hours: 90
Credits: 4

Course Code:3P21/1C/AME//8P21/1C/AME
LTP:3/3/0

COURSE OBJECTIVES:

1. To enable the students to understand the advanced theories of consumer behavior
2. To understand various theories of oligopoly market structures
3. To identify the significance of welfare economics and its related issues.
4. To review the models related to firms' profit and goals.
5. To study theories related to choice and uncertainty

COURSE OUTLINE

- UNIT I** : Market Structure - Oligopoly - Cournot Model - Bertrand Model - Stackelberg Model - Critique of Neo - Classical Theory of Firm - Theory of Games - Pure and Mixed Strategy - Nash Equilibrium - Sequential Games - Prisoner's Dilemma.
(20 Hours)
- UNIT II** : Behavioural Models - Baumol's Sales Maximization Theory - Cyert and March Model - Marris Growth Model - Williamson Model - Bain's Limit Pricing.
(20 Hours)
- UNIT III** : General Equilibrium - Walrasian System - Properties - Problem of Existence - Uniqueness & Stability of Equilibrium - Excess Demand Function Approach to General Equilibrium Analysis - Tatonnement and Non-Tatonnement Process.
(15 Hours)
- UNIT IV** : Welfare Economics - Criteria of Welfare Maximization - Pareto Optimality Criteria - Compensation Principle - Social Welfare Function - Arrows Impossibility Theorem - Second Best Theory - Rawl's Contribution to Welfare.
(20 Hours)
- UNIT V** : Choice under Uncertainty - Neumann Morgenstern Index - Friedman-Savage Hypothesis - Markowitz Hypothesis - Asymmetry of Information- Moral Hazard & Principal - Agent Problem.
(15Hours)

RECOMMENDED TEXTBOOKS:

1. K.N. Verma, Micro Economic Theory, Vishal Publishing Company, New Delhi, 2018.
2. Koutsoyannis.A, Modern Micro Economics, ELBS, Macmillan Press, London 2015.

REFERENCE BOOKS:

1. Baumol, W J Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi, April 2018 (New Edition).
2. Robert S. Pindyck and Daniel .Rubinfeld Micro Economics, 9th Edition , Global Edition, Pearson, 2018.
3. Paul Krugman and Robin Wells Micro Economics, Worth Publishers, 2018.
4. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South Western, Cengage Learning India Private Limited, 8th Edition, 2020.
5. Hal R. Varian; Micro Economic Analysis, Affiliated East West Press, 2014.
6. Geoffery Alexander, Jehle, Phillip J .Rey Advanced Micro Economic theory. Financial Times/Prentice Hall 2011.
7. Walter Nicholson and Christopher Snyder, Micro Economic Theory - Basic Principles and Extensions, Cengage Learning India Pvt, Ltd, 12th Edition, 2017.

JOURNALS:

1. Cambridge Journal of Economics.
2. American Economic Journal.

E-LEARNING RESOURCES

1. www.jstor.org
2. www.oreilly.com
3. www.econpapers.repec.org
4. www.coursera.org/learn/economics
5. www.tutor2u.net

COURSE OUTCOMES:

On Completion of the Course the students will be able to

CO Number	CO STATEMENT
CO 1	Understand oligopoly markets, Nash equilibrium Game theory.
CO 2	Gain knowledge on long run behaviour of firms.
CO 3	Explain general equilibrium model in relation to allocation of resources.
CO 4	Understand criteria of welfare maximization.
CO 5	Review the theories related to choice and uncertainty.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	2	3	2	2	2
CO2	3	2	3	2	2	2
CO3	2	2	2	2	3	3
CO4	2	2	2	2	3	3
CO5	3	2	2	2	2	2
AVERAGE	2.6	2.0	2.4	2.0	2.4	2.4

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED-2

WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER I
PUBLIC ECONOMICS

Total Hours: 90
Credits: 4

Course Code: 3P21/1C/PUE
LTP: 3/ 3/0

COURSE OBJECTIVES:

1. To understand the theoretical analysis of Public Finance.
2. To study the policy framework of Public Economics.
3. To examine the role of Finance Commission.
4. To analyze the theorems of Welfare Economics.
5. To study the revenue sources of the Union, state and local bodies

COURSE OUTLINE:

- UNIT I :** Public Finance – Meaning and Scope - Importance - Role of Public Finance in Developing Countries - Economic Rationale of the Modern State - Functions of the State - Role of Public Sector in the Economy. (15 Hours)
- UNIT II :** Theory of Public and Private Goods – Private Preference for Public Goods – Voluntary Exchange Theory - Samuelson Theory -Externalities – Negative Externalities – Positive Externalities and Inefficiency – Lindahl Model – Pareto Efficiency, Equity and the Social Welfare – Market Failure - Public Goods and Externalities. (15 Hours)
- UNIT III :** Economics and Welfare Economics – Value Judgments in Welfare Economics Positive or Normative – Criteria of Social Welfare – Theorems of Welfare Economics - Uncertainty in Exchange – The Pareto Optimality Criterion – Compensation Criterion -Kaldor - Hicks – Scitovsky’s – Sen’s Contribution to Welfare Economics - Economics of Happiness and Capability. (20 Hours)
- UNIT IV :** Public Expenditure – Wagner’s Views on Public Expenditure - Peacock – Wiseman Hypothesis – Samuelson and Musgrave Approach – Colin Clark Hypothesis – Public Expenditure in India – Fiscal Policy - Fiscal Consolidation – FRBM Act - Fiscal Stimulus Package during Pandemic (20 Hours)
- UNIT V :** Budget in India – Process – Procedure – Principles – Analysis of Budget and Deficits - Green Budgeting - Gender Budgeting - Fiscal Federalism in India - Federal Finance - Functions of Finance Commission - Assessment of Indian Tax System - Tax and Non-Tax Revenue of the Union, States and Local Bodies - Recent Tax Reforms in India - GST- GST Council – GST Reviews. (20Hours)

RECOMMENDED TEXT BOOKS:

1. Janak Raj Gupta, Public Economics in India - Theory and Practice, Atlantic Publishers and Distributors Pvt Ltd; 2nd Edition, 2017.
2. R.A.Musgrave and P.B.Musgrave, Public Finance in Theory and Practice, McGraw Hill Publications, 5th Edition, 1989.

REFERENCE BOOKS:

1. Atkinson, A.B and J.E.Siglitz Lectures on Public Economics, Tata McGraw Hill, New York 1983.
2. John Cullis and Philip Jones, Public Finance and Public Choice, Oxford University Press Ist Edition, 2009.
3. B.P.Tyagi, Revised by Dr.H.P.Singh, Public Finance, Jai Prakash Nath & Co, 2015.
4. Harvey R.A.Musgrave and P.B.Musgrave Rosen, Public Finance, McGraw Hill Publications, 7th Edition, 2005.
5. Lekhi.R.K, Joginder Singh, Public Finance, Kalyani Publishers; 11th Edition, 2016.
6. Gupta Janak Raj, Public Enterprises - Economics and Management, Atlantic Publishers, 2011.

JOURNALS:

1. Journal of Economics and Public Finance
2. The Journal of Economic Perspectives- A Journal of the American Economic Association.
3. Indian Economic Journal.
4. Indian Economic Review.

E-LEARNING RESOURCES:

1. <https://academicearth.org/economics>
2. <https://rescuoc.edu/>
3. <https://edurev.in>
4. <https://sswm.info.budget-allocation>
5. <https://www.insightsonindia.com>
6. <https://sagepub.com>publiceconomics>
7. <https://www.journalelsevier.com>

COURSE OUTCOMES:

On Completion of the Course the students will be able to:

CO Number	CO STATEMENT
CO 1	Describe the importance of Public Finance and Economic rationale of the Modern State.
CO 2	Classify externalities and distortions in equilibrium
CO 3	Understand Welfare Economic theories.
CO 4	Explore the role of Public Expenditure in Economic Development
CO 5	Identify the methods adopted by Government in relation to Resource Allocation

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	3	2	3	3	3
CO2	2	3	3	3	3	3
CO3	3	3	3	3	3	3
CO4	3	3	1	3	3	3
CO5	3	3	3	3	3	3
AVERAGE	2.6	3	2.4	3	3	3

KEY: STRONGLY CORRELATED-3
WEAKLY CORRELATED-1

MODERATELY CORRELATED-2
NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER I
MATHEMATICS FOR ECONOMISTS

Total Hours: 90
Credits: 4

Course Code: 3P21/1C/MAE//8P21/1C/MAE
LTP: 3/3/0

COURSE OBJECTIVES:

1. To enable Students to understand application of mathematical Tools to Economic Theories.
2. To Interpret the transformation of a Matrix
3. To formulate Mathematical Models.
4. To gain Knowledge to use optimization techniques
5. To equip the students to apply Differential and Difference Equations in Economics.

COURSE OUTLINE:

- UNIT I** : Vector and Matrix Algebra- Basic Operations -Rank and Inverse of a Matrix- Orthogonal Matrix - Partitioned Matrix- Vector and Matrix Differentiation - Definite Matrices - Definition - Types and Properties - Positive Definite- Negative Definite. (20 Hours)
- UNIT II** : Linear Equations - Consistency of a System of Linear Equations - Solution of a System of Linear Equations (Homogenous and Non- Homogenous) - Eigen Values and Eigen Vectors. (20 Hours)
- UNIT III** : Differentiation - Rules of Differentiation - Relationship between AC and MC - Relationship between AR and MR and Elasticity of Demand - Optimisation Two or Three Variables - Cost, Revenue, Profit under Perfect Competition and Monopoly - Unconstrained Optimisation - Jacobian, Hessian - Constrained Optimisation Lagrangian. (15Hours)
- UNIT IV** : Differential Equations: Definitions and Concepts - First - Order Differential Equations - Solution of Differential Equations - Second-Order Differential Equations - Characteristic Roots (15 Hours)
- UNIT V** : Difference Equations - Definitions and Concepts - First-Order Difference Equations - General Formula - Stability Conditions - Lagged Income Determination Model - Cobweb Model - Harrod Model - Second-Order Difference Equations - Definite Solution and Stability Conditions - Samuelson's Interaction Model. (20 Hours)

RECOMMENDED TEXTBOOKS:

1. Carl. P. Simon - Lawrence Blume, Mathematics for Economist Norton, 1994.
2. Edward T. Dowling, Mathematical Methods for Business and Economics, Schaums's Outline Series, 2009

REFERENCE BOOKS:

1. Chiang, A. C., Fundamental Methods of Mathematical Economics, McGraw-Hill, 4th Edition, 2017.
2. G. Hadley, Linear Algebra Addison – Wesley Publishing Company, 1977.
3. K.Sydsaeter and P Hammond, Mathematics for Economic Analysis, Pearson Educational Asia ,Delhi, 2002.
4. Mabett. Alan J Workout for Mathematics for Economist, MacMillian, 1986.
5. R.G.D. Allen, Mathematical Analysis for Economists, Macmillan and Co. Ltd., 2014.
6. Renshaw Geoff, Maths for Economics, Oxford University Press, 4th Edition, 2016.

JOURNALS:

1. Journal of Mathematical Economics
2. Journal of Mathematical Economics and Finance

E-LEARNING RESOURCES:

1. <https://ocw.mit.edu>
2. <https://oyc.yale.edu>
3. <https://www.edx.org/course/subject/economics-finance>
4. <https://www.coursera.org/learn/mathematics-for-economists>
5. <https://www.pearsonmylabandmastering.com/northamerica/mymathlab>

COURSE OUTCOMES:**On Completion of the course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Interpret the transformation of a Matrix
CO 2	Solve system of Equations
CO 3	Gain Knowledge to use optimization techniques
CO 4	Apply Differential Equations in Economics
CO 5	Utilise Difference Equations in Economics

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO 1	2	1	3	1	1	2
CO 2	2	1	3	2	1	3
CO 3	3	1	3	2	1	3
CO 4	3	1	3	2	2	3
CO 5	3	1	3	2	2	3
Average	2.6	1	3	1.8	1.4	2.8

KEY: STRONGLY CORRELATED - 3
WEAKLY CORRELATED - 1

MODERATELY CORRELATED - 2
NO CORRELATION - 0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory Section A must have 3 theory and 5 problems
K4,K5	B-3/5x20 Marks	1200	60		Section B must have 2 theory and 3 problems

SEMESTER I

STATISTICAL METHODS FOR ECONOMISTS

Total Hours: 90
Credits: 4

Course Code: 3P21/1C/SME//8P21/1C/SME
LTP: 3/3/0

COURSE OBJECTIVES:

1. To provide a strong foundation on statistical concepts
2. To outline the fundamentals and basic rules of probability that help in decision making
3. To enable the students to estimate the unknowns and predict future values
4. To develop skills in handling complex problems in Data analysis and Research
5. To equip the students to calculate vital Statistical indicators.

COURSE OUTLINE:

- UNIT I** : Interpolation and Extrapolation - Newton's Forward and Backward Interpolation and Lagrange's Methods - Analysis of Time Series - Measurement of Trend - Semi Averages, Moving Averages - Method of Least Squares
(15 Hours)
- UNIT II** : Probability - Addition and Multiplication Theorems - Conditional - Probability - Discrete and Continuous - Random Variables - Mathematical Expectations - Bayes Theorem - Theoretical Distributions - Binomial, Poisson and Normal.
(20 Hours)
- UNIT III** : Simple, Partial and Multiple Correlation - Regression - Regression Lines and Equations - Multiple Regression.
(20 Hours)
- UNIT IV** : Multivariate Techniques - Factor Analysis - Exploratory and Confirmatory Analysis, Cluster Analysis
(15 Hours)
- UNIT V** : Vital Statistics - Sources - Errors in Census and Registration - Measurement of Population Rate and Ratio of Vital Events- Measurement of Mortality - Crude Death Rate (CDR) - Specific Death Rate (SDR) - Infant Mortality Rate (IMR) and Standardized Death Rate (SDR) - Maternal Mortality Rate (MMR) - Morbidity Rate.
(20 Hours)

RECOMMENDED TEXTBOOKS:

1. S.P Gupta, “Statistical Methods, Sultan Chand & Sons, 2017.
2. Anderson, Sweeney and Williams, “Statistics for Business and Economics”, Cengage, 2014.

REFERENCE BOOKS:

1. Anderson, David Ray, Statistics for Business and Economics, South- Western Pub, 2001.
2. Dr.T.K.V.Iyengar,Dr.B.Krishna Gandhi S.Ranganatham,Dr.M.V.S.S.N.Prasad Probability and Statistics, S.Chand & Co 2015.
3. R.S.N. Pillai and V.Bagavathi, Statistics, Sultan & Chand Sons, New Delhi 2019.
4. Sancheti .D.C and V.K. Kapoor, Statistical Theory - Method and Application, Sultan Chand & Sons 2010.
5. S C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics 2014.
6. Dr.S.Sachdeva, Statistics, Lakshmi Narain Agarwal, 2014.

JOURNALS:

1. Journal of Applied Statistics
2. Journal of Statistical Software
3. The STATA Journal
4. Journal of Statistics Education

E-LEARNING RESOURCES:

1. <https://www.statista.com>.
2. <https://techjury.net>
3. elearning.ec.unipi.gr>eLearning
4. <http://www.coursera.org/learn/economics>
5. <http://www.springboard.com>

COURSE OUTCOMES:

On Completion of the Course the students will be able to

CO NUMBER	CO STATEMENT
CO1	Estimate value of unknowns
CO2	Outline the fundamentals and basic rules of probability that help in decision making.
CO3	Calculate and interpret Correlation and regression coefficients
CO4	Apply Univariate and Multivariate techniques.
CO5	Acquire knowledge on vital statistics that would equip students to calculate CDR,SDR,IMR,MMR and other vital indicators

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	3	3	2	3
CO2	3	2	3	3	2	3
CO3	3	1	3	3	2	3
CO4	2	1	3	3	1	3
CO5	3	3	3	3	2	3
AVERAGE	2.8	1.8	3	3	1.8	3

KEY: STRONGLY CORRELATED - 3 MODERATELY CORRELATED - 2
WEAKLY CORRELATED - 1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory Section A must have 3 theory and 5 problems
K4,K5	B-3/5x20 Marks	1200	60		Section B must have 2 theory and 3 problems

SEMESTER I
FINANCIAL ECONOMICS

Total Hours: 60
Credits: 3

Course Code: 3P21/1E1/FIE// 8P21/1E1/FIE
LTP: 2 /2/ 0

COURSE OBJECTIVES:

1. To have an insight about trading in the financial markets.
2. To analyze Capital Markets.
3. To explain the various types of investments.
4. To understand the guidelines of SEBI and security analysis
5. To study the recent trends in the financial market

COURSE OUTLINE:

UNIT I : Capital Market - Money Market - Primary Market- Definition - Kinds of Issues - General Conditions Governing Issues of Shares in Primary Market - (a brief view) - Intermediaries involved in Primary Market.
(10 Hours)

UNIT II : Secondary Market - Definition - Securities Dealt in Secondary Market–Listing of Securities- Meaning - Objectives - Classification of Listed Securities - Benefits of Listing to Companies and Investors - Stock Brokers - Types of Stock Brokers in Stock Exchanges- Different Exchanges - NSE - BSE - Other World Market Exchanges.
(15 Hours)

UNIT III : Stock Brokers - Underwriters - Advantages - Responsibilities - Depositories - Functions - Procedure - Benefits - Remedies - Credit Rating Agencies - Benefit Instruments - Investors - Company - Basic types.
(10 Hours)

UNIT IV : OTCEI - Insider Trading - Online Trading System - Meaning - SEBI - Objectives - Administration and Activities of SEBI - SEBI and Primary Market - SEBI and Secondary Market / Vanilla Interest Rate Swaps – Swaptions - Other Types of Swaps - Currency - Equity and Commodity Swaps - Rating Derivatives - Equity Cash Market - Futures - Options - Call Options - Put Option.
(15 Hours)

UNIT V : Merchant Banking - Recognition - Conditions - Role- Functions - Mutual Funds - Classification - Benefits - Performance - Venture Capital - Importance Types - Recent Trends in Financial Markets - Impact of COVID19 - Fluctuations
(10 Hours)

RECOMMENDED TEXTBOOKS:

1. Ramgopal, C Management of Financial Services, Vikas Publications, 2018.
2. Prasana Chandra, Financial Management, Sage Publications, 2019.

REFERENCE BOOKS:

1. Padmalatha Suresh, Management of Banking and Financial Services, Pearson Publications, 2019.
2. Rajesh Kothari, Financial Services in India, Sage Publications, 2020.
3. Eugene F. Bringham, Financial Management Theory and Practices, Thomson one - Business School Edition, 2020.
4. John Tenant, The Economists Guide to Financial Management, Economists Book Publications, 2020.
5. Roger Lowenstein, When Genius Failed, South Western College Publications, 2019.
6. James Montier, The Little Book of Behavioural Investing, W.W. Norton Company, 2018.

JOURNALS:

1. The Journal of Financial Economics.
2. International Journal of Finance and Economics.

E-LEARNING RESOURCES:

1. <https://www.cpdwise.com>.
2. www.fitchlearning.com.
3. www.bobsguide.com.
4. www.udemy.com
5. <http://learning.equitymaster.com>

COURSE OUTCOMES

On completion of the course the students will be able to:

CO Number	CO STATEMENT
CO1	Assess the importance of Capital and Money markets.
CO2	Have an insight about the secondary market in India.
CO3	Examine the role of intermediaries in the securities market.
CO4	Discuss the role of securities in secondary market.
CO5	Understand Merchant banking, Venture Capital and Mutual Funds.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	3	3	3	3
CO3	3	3	3	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	3	3	3	3
AVERAGE	3	3	3	3	3	3

KEY: STRONGLY CORRELATED-3 MODERATLY CORRELATED-2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if Any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

**SEMESTER I
ECONOMICS OF LAW**

**TOTAL HOURS: 60
CREDITS: 3**

**COURSE CODE: 3P21/1E1/ ECL//8P21/1E1/ ECL
LTP: 2 /2/0**

COURSE OBJECTIVES:

1. To acquire knowledge about the relationship between economics and law.
2. To study and comprehend about the various Acts and its recent amendments.
3. To create awareness of the necessity and relevance of laws relating to environment
4. To understand the law of contracts and Right to Information Act
5. To know about IPR and IT Act

COURSE OUTLINE:

- UNIT I** : Introduction to Law-Classification of Legal System – Relationship between Economics and Law - Economics as a Science and its Relevance to Law - Positive and Normative Economics – Efficiency Criteria - Fairness criteria - Indian Court Systems. (10 Hours)
- UNIT II** : Competition Act, 2002 - Scope and Applicability of the Act - Definitions. – Competition Appellate Tribunal -Composition and Powers - Overview of the New Labour Code - The Code on Wages, 2019 - The Code on Occupational Safety, Health and Working Conditions, 2020 - The Code on Social Security, 2020 - The Code on Industrial Relations, 2020 - Litigation and Arbitration. (10 Hours)
- UNIT III** : Economic Theory of Contract – Indian Contract Act, 1872 - Complete and Incomplete Contracts - Bargaining Theory – Remedies as Incentives - The Elements of Valid and Invalid Contracts -Contracts and Efficient Exchange – Performance of Contract and Breach - Right to Information Act, 2005. (10 Hours)
- UNIT IV** : Consumer Protection Act, 1986 - Scope and Applicability of the Act - Rights of a Consumer, Unfair and Restrictive Trade Practices - Consumer Protection Councils - Consumer Disputes Redressal Agencies - District Forum, State Commission and National Commission - Food Safety and Standards Act, 2006 - Food Security Act 2013 (15 Hours)
- UNIT V** : Consumer Protection (E commerce) Rules 2020 - Intellectual Property Rights – Patents Act 1970 - Trademarks Act 1999 – Designs Act 2000 –Information Technology Act 2000 - Environment Protection Act, 1986 - Biological Diversity Act, 2002 - The National Green Tribunal Act, 2010 (15Hours)

RECOMMENDED TEXTBOOKS:

1. Robert D Cooter and Thomas Ulen Law and Economics, Addison Wesley-Pearson, 2012.
2. Bouckaert, B and G De Geest Encyclopedia of Law and Economics, Vol. 1-5, Edward Elgar, 2012.
3. S C Tripathi, Competition Law, Central Law Publications, 1st Edition 2017.
4. Taxmann's New Labour & Industrial Laws – With Comparative Study, Charts & Tables of New and Old Labour Laws, October 2020 Edition Paperback – 1 November 2020.
5. Saharay H K, Textbook on Consumer Protection Law, 3rd Edition, Elsevier India, 2017.

REFERENCE BOOKS:

1. Commercial's Food Safety and Standards Act, 2006, Bare Act, The Food Safety and Standards ACT, 2006 - 2021/ edition, 1 November 2020
2. Dr Nishtha Jaswal Dr. P S Jaswal (Author), Environmental Law Allahabad Law Agency- January 2017
3. Professionals National Food Security Act, 2013 Bare Act-1 January 2020
4. Dr B L Wadehra, Law Relating to Intellectual Property, 5th Edition, 2016
5. Professionals, The Information Technology Act, 2000 As Amended by The Finance Act 2017.
6. Mamta Rao, Law Relating to Women & Children by | Eastern Book Company, 4th Edition, 2019.

JOURNALS:

1. American Law and Economic Review
2. The Journal of Law and Economics
3. Indian Journal of Law and Economics

E-LEARNING RESOURCES:

1. <https://blog.ipleaders.in/important-know-economics-succeed-competition-law/>
2. The Economic Analysis of Law (Stanford Encyclopedia of Philosophy)
3. <https://www.econlib.org/library/Enc/LawandEconomics.html>
4. Law and Economics -Econlib

COURSE OUTCOMES:**On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Understand the relationship between law and Economics, gain knowledge about the Indian Legal System.
CO 2	Explain the Competition Act and learn the overview of the New Labour Code.
CO 3	Learn about the law of contracts and Right to Information Act
CO 4	Demonstrate the objectives of Consumer Protection Act, Food Safety and Standards Act and familiarize with dispute resolution processes adopted in India.
CO 5	Implement knowledge about IPR and IT Act,

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	2	2	3	2	2	2
CO2	3	3	2	3	3	2
CO3	2	3	2	3	3	2
CO4	3	3	2	3	3	2
CO5	3	3	2	3	3	2
AVERAGE	2.6	2.8	2.2	2.8	2.8	2

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED- 2

WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER II

MACROECONOMIC THEORY AND ANALYSIS

TOTAL HOURS: 75

COURSE CODE: 3P21/2C/MTA// 8P21/2C/MTA

CREDITS: 4

LTP: 3/2/0

COURSE OBJECTIVES:

1. To enable the students to understand macroeconomic theories and their applications.
2. To facilitate the students to gain knowledge on macroeconomic models and its relevance to real-world issues.
3. To Interpret theories of Investment and working of the multiplier
4. To relate the theories of Business Cycles to the economy.
5. To equip the students on the implications of Macroeconomic policies

COURSE OUTLINE:

- UNIT I** : Classical vs Keynesian Models - Say's Foundation of Classical Macro Economics, Price Flexibility and Full Employment, Equilibrium Concept in Classical Model, - Principles of Effective Demand and Supply - Synthesis between Classical Models and Keynesian Models, Interpretation and Policy Analysis. (15 Hours)
- UNIT II** : The Keynesian Approach of Capital Accumulation - Investment Decision - Changes in Interest Rate, MEC and Capital Accumulation - Keynesian Dynamic Multiplier, Accelerator and Super – Multiplier (15 Hours)
- UNIT III** : Modern Development in Macroeconomics - New Classical Macro Economics- Views of Muth, Wallace and Lucas - New - Keynesianism - Sticky Price Model - Efficiency of Wage Model - Insider & Outsider Model of Employment - Macro Disequilibrium - Robert W.Clower - Axel Leijonhufvud. (15 Hours)
- UNIT IV** : Theory of Macro Distribution - Kalecki's Model - Cartters Model - Kaldor's Savings - Investment Model - Weintraub's Model. (15 Hours)
- UNIT V** : Business Cycle Model - The Goodwin- Kaldor - Schumpeter and Cobweb Model - Control of Business Cycles - Relative efficiency of Monetary and Fiscal Policies - Covid - 19 Macroeconomic implications for India. (15 Hours)

RECOMMENDED TEXTBOOKS:

1. Edward Shapiro, Macro Economic Analysis, Galgotia Publications Pvt. Ltd, New Delhi, 5th Edition, 2013.
2. K.C Rana K.N Verma, Macro Economic Analysis, Vishal Publishing Company, New Delhi, 2015
3. N. Gregory Mankiv and Mark P.Taylor, Macro Economics, Cengage Learning India Pvt, Ltd, 2017
4. David Shapiro and Stevan A. Greenlaw, Principles of Macro Economics, 12th Media Services, Texas, 2017
5. D. N. Dwivedi, Macro Economics Theory and Policy, McGraw Hill Education, 2018
6. Ahuja, H.L “Macro Economics Theory and Policy, S.Chand Publication 20th Edition, 2019
7. L.N. Dutta, Modern Macro Economics, Dream tech Press, 2020

REFERENCE BOOKS:

1. Frederick S.Brooman, Foundation of Macro Economics-Its theory and Policy, Routedledge Publication, 2017.
2. Richard I Froyen, Macro Economics – Theories and Policies, Pearson Education India, 2012.
3. William N. Branson, Macro economic Theory and Policy, East-west Press Pvt. Ltd, 2015.
4. Rudiger Dornbush and Sunlay Fischer, Macro Economics, McGraw Hill Education, 12th Edition, 2018
5. Davod Romar, Advanced Macro Economics, McGraw Hill, 4th edition,2019
6. Vivek Moorthy, Applied Macro Economics, Dreamt Tech Press, 2019
7. N. Gregory Mankiv, Principles of Macroeconomics, Cengage Learning India Pvt, Ltd, 2020
8. Oliver Blanchard, Macro Economics, Pearson Education, 7th Edition, 2020
9. Eugene Diulio, Schaum’s Outline of Macroeconomics, McGraw Hill, 3rd edition, 2020

JOURNALS:

South Asian Journal of Report
Reserve Bank of India, 2014-15

E-LEARNING RESOURCES:

1. www.yourarticlelibrary.com
2. www.economicshelp.org
3. www.omicsonline.org
4. www.khanacademy.org
5. www.economicdiscussion.net
6. [http //diplomatist.com/2020/06/12/covid-19](http://diplomatist.com/2020/06/12/covid-19)

COURSE OUTCOMES:

On Completion of the Course the students will be able to

CO Number	CO STATEMENT
CO 1	Compare and contrast the Classical and Keynesian perspectives.
CO 2	Interpret theories of Investment and working of the multiplier.
CO 3	Gain deeper understanding on General Disequilibrium Theories.
CO 4	Analyse models related to distribution of Income.
CO 5	Relate the theories of Business cycles to understand the working of economies.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	2	2	2	2	2
CO2	3	2	2	2	2	2
CO3	3	2	2	2	2	2
CO4	3	2	3	2	2	2
CO5	3	2	2	2	2	2
AVERAGE	2.8	2.0	2.2	2.0	2.0	2.0

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED-2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

**SEMESTER II
HEALTH ECONOMICS**

**Total Hours:75
Credits: 4**

**Course Code: 3P21/2C/HEE
LTP: 3/2/0**

COURSE OBJECTIVES:

1. To have an insight of the Health Policy in India.
2. To Study the Cost - benefit analysis involved in healthcare
3. To evaluate the importance of alternate systems of medicine.
4. To understand the importance of health insurance
5. To study the recent development in the health care systems.

COURSE OUTLINE:

- UNIT I** : National and International Health Scenario - Health Output and Indicators and their Correlation with level of economic development – Hospitals in Rural and Urban India - Government Measures - Role of Physicians and Hospitals in Health Care System (10Hours)
- UNIT II** : Resource Allocation in the Health Sector - Resource Allocation - Pricing of Services and Choice of The Mix of Services – Tradeoffs Between Quantity and Quality – Production Function – Productive Efficiency and Equity Considerations Applied to The Hospital Sector - Spatial Distribution of Health Care Facilities and Services – Demand for Health Services. (15Hours)
- UNIT III** : Evaluation of Cost and Benefits of Health Services - Provision of Health Services by The Government – PPP in Health Care – Application of Benefit Cost Analysis to Public Health and Family Planning Projects –Role of Health in Economic Development - Value of Output Lost Due to Number of Sick Days - Benefits and Costs (Both Private and Social) of Training to Professional Manpower (20Hours)
- UNIT IV** : Financing of Health Services - General Health Insurance – Special Insurance for the Poor - Disabled and the Aged - a Comparative Analysis of Alternative Payment System - Prepayment Scheme – Saving Linked Direct Insurance System - Indian Health Care Delivery System - World of Health Care Finance, Private Health Insurance, Social Health Insurance - Theory of Risk and Insurance - Health Insurance and Market Failure . (15Hours)
- UNIT V** : Indian Traditional Medicine - Growth of Allopathy - Homeopathy – Educational Institutions in India - Growth of Medical Tourism in India - India’s Vaccine Diplomacy - Recent Trends in Healthcare Industry in 2021- Ayushman Bharath Yojana and recent National Health Policies and Programmes (15Hours)

RECOMMENDED TEXT BOOKS:

1. Xamer Martinez Giralt, “Principles of Health Economics”, Routledge, 2010.
2. Himanshu Sekhar Rout and Prasant Kumar Panda, Health Economics in India, New Century Publication, 2010.

REFERENCE BOOKS:

1. Banerjee, D. (1975), social and Cultural Foundations of Health Service Systems of India, Inquiry, Supplement to Vol. XII, June 1975.
2. Edwin G Dolan and John C Goodman: Economics of Public Policy: 4th Edition: West Publishing Company, New York 1995.
3. D. Amutha, “A Textbook of Health Economics”, Edition 1, Mangalam Publishers and Distributers, 2016.
4. David Wonderling, Reinhold Gruen, Nick Black, “Introduction to Health Economics”, McGraw Hill Education, 2005.
5. Reinhold Gruen, Anne Howrath, “Financial Management in Health Services”, McGraw-Hill Education (UK), 2005
6. John. B.Davis, Robert McMaster “Healthcare Economics” published by Routledge, 2017.

JOURNALS:

1. Journal of Health Economics Outcomes and Research.
2. Elsevier BV Journal of Health Economics
3. Journal of Health Economics Elsevier
4. International Journal of Health Economics and Management.

E-LEARNING RESOURCES

1. www.ibef.org>Health
2. www.medscape.com
3. www.healthknowledge.org
4. www.encyclopedia.com>health
5. www.researchgate.net
6. www.springer.com
7. www.jhsph.edu>health

COURSE OUTCOMES:**On Completion of the Course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Assess National Health Scenario.
CO 2	Identify Resource Allocation and Financing in Health Sector.
CO 3	Analyse cost and benefit of Health Services.
CO 4	Evaluate the importance of Social Health Insurance and National health policies and programmes
CO 5	Assess the impact of Covid 19 on health sector.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	2	2	2	1	2	1
C02	2	2	2	0	3	1
C03	2	2	2	0	3	3
C04	1	1	2	1	3	2
C05	2	1	2	2	3	1
AVERAGE	1.8	1.6	2	0.8	2.8	1.6

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED- 2
 WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

**SEMESTER II
ECONOMETRIC METHODS**

**Total Hours: 75
Credits: 4**

**Course Code: 3P21/2C/ECM//8P21/2C/ECM
LTP: 3/2/0**

COURSE OBJECTIVES:

1. To provide an understanding on the knowledge of Econometrics and its use for Economists and social scientists.
2. To understand how economic theories are used to test create empirical data.
3. To provide in depth knowledge on the Econometric models.
4. To examine the meaning and applicability of dummy variables and to recall the basic methods of time series data
5. To estimate the linear probability models and the role of lags in dynamic econometric models

COURSE OUTLINE:

- UNIT I** : Econometrics – Meaning - Scope and Methodology – Sample Regression Function and Population Regression Function - Simple Linear Regression Model – Assumptions of CLRM - Gauss Markov Theorem - Multiple Regression Model - Concept of R^2 and Adjusted R^2 . (15 Hours)
- UNIT II** : Autocorrelation - Heteroscedasticity – Multicollinearity – Specification Bias – Nature - Consequences - Detection and Remedial Measures. (15 Hours)
- UNIT III** : Dummy Variables - Regression on Qualitative and Quantitative Variables - Dummy Variable Trap – Structural Stability of Regression Models – Chow Test – Deseasonalisation - Piecewise Linear Regression Model - Time Series Analysis - Time Series Econometrics - Forecasting – Approaches to Economic Forecasting – AR - MA and ARIMA Modeling of Time Series Data – Box-Jenkins (BJ) Methodology – ARCH and GARCHs. (20 Hours)
- UNIT IV** : Distributed Lag Models - Formation of Expectations - Naïve Expectation Versus Adaptive Expectations Models – Partial Adjustment Models - Distributed Lag Models - Koyck’s Model – Almon Lag - Polynomial Distributed Lag Models - End Point Restriction – Rational Expectation Models. (10 Hours)
- UNIT V** : Simultaneous Equation Methods – Approaches to Estimation – Recursive Models and Ordinary Least Squares – Estimation of Just – Over and Under Identified Equation - The Method of Indirect Least Squares (ILS) – Estimation of an Over identified equation - The Method of Two – Stage Least Squares (2SLS) (15Hours)

RECOMMENDED TEXTBOOKS:

1. Damodar N.Gujarathi & Sangeetha- Basic Econometrics, The McGraw –Hill Companies 2017
2. A.Koutsoyiannis - Theory of Econometrics Palgrave Macmillan 2001
3. R. Dhanasekaran – Econometrics 2013 Vrindha Publications, 2012

REFERENCE BOOKS:

1. Brooks, C.,Introductory Econometrics for Finance, First Edition, Cambridge University Press, 2014.
2. Gujarati, N.D., Basic Econometrics, Fourth Edition, McGraw Hill, 2004.
3. Johnston, J.,Econometric Methods ,Third Edition, McGrawHill, 1997.
4. Ramanathan,R., Introductory Econometrics with applications, Fifth Edition, Thomson Asia Private Limited, 2002.
5. Wooldridge, J., Introductory Econometrics: A Modern Approach, South-Western, 2009.
6. Enders, Walter, Applied Econometric Time Series 4th Edition Wiley E-Text Student Package, 2014.
7. Goldberger, A. S, Introductory Econometrics, Harvard University Press Cambridge Mass, 2009.
8. Greene, W. H., Econometric Analysis, New Delhi Pearson, 2018.

JOURNALS

1. Journal of Econometrics
2. Journal of Applied Econometrics
3. Econometrica - Journal of the Econometric Society

E-LEARNING RESOURCES

1. <https://learneconometricsfast.com>.
2. <https://inomics.com>.
3. <https://www.coursera.org>.
4. <https://economicsnetwork.ac.uk>.
5. <https://www.edx.org>

COURSE OUTCOME:**On Completion of the Course the students will be able to**

CO NUMBER	CO STATEMENT
CO1	Use the least squares method in determining relationships among different variables
CO2	Identify the problems of ignoring OLS assumptions
CO3	Examine the meaning and applicability of dummy variables and to recall the basic methods of time series data
CO4	Estimate the linear probability models and the role of lags in dynamic econometric models
CO5	Gain in-depth knowledge in Simultaneous equation models

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES:

CO/PSO	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	3	3	2	3
CO2	3	2	3	3	2	3
CO3	3	2	3	3	2	3
CO4	3	2	3	3	2	3
CO5	3	2	3	3	2	3
Average	3	2	3	3	2	3

KEY: STRONGLY CORRELATED – 3 MODERATLY CORRELATED - 2
WEAKLY CORRELATED -1 NO CORRELATION- 0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER II

STATISTICS WITH COMPUTER APPLICATIONS

Total Hours:75

Credits: 4

Course Code: 3P21/2C/SCA//8P21/2C/SCA

LTP: 2/2/1

COURSE OBJECTIVES:

1. To familiarize with various statistical tools and their applications.
2. To use application of Computer software in Statistical Data Analysis
3. To enable the students to deal with economic issues using statistical data.
4. To apply test of Hypotheses and use non-Parametric test
5. To acquire an In-depth knowledge on Ms.-Excel and SPSS packages

COURSE OUTLINE:

- UNIT I** : Sampling Theory - Types of Sampling - Sampling Distributions and Standard Error of Mean – Standard Deviation and Proportions - Testing of Hypothesis – Level of Significance – Type I and Type II Error - Large Sample Test for Mean - Standard Deviations and Proportions. (15 Hours)
- UNIT II** : Estimator and Estimate – Point and Interval Estimates – Reliability of an Estimate – Sampling Variance and Mean Square Error – Properties of a Good Estimator - Estimation of Population Parameters - Confidence Intervals for Population Parameters. (15 Hours)
- UNIT III** : Small Sample Test – t-test- Paired t- test - Chi-Square Test- Test of Goodness of Fit – Test of Homogeneity - Test of Independence of Two Attributes. (15 Hours)
- UNIT IV** : F test – Analysis of Variance - One Way and Two-Way Classifications. (15 Hours)
- UNIT V** : Introduction to MS-Excel – Applications - Diagrams and Graphs – Basic Statistical Functions and its Application - Inferential Analysis in SPSS - Correlation, Multiple Correlation - Regression – Multiple Regression – ANOVA (**Practical Examination only. No question for End Semester Examination**) (15 Hours)

RECOMMENDED TEXTBOOKS:

1. S.P Gupta, Statistical Methods, Sultan Chand & Sons, 2017.
2. Anderson, Sweeney and Williams, Statistics for Business and Economics, Cengage, 2012.

REFERENCE BOOKS:

1. Anderson, David Ray, Statistics for Business and Economics, South Western Publication , 2001.
2. Dr.T. K.V.Iyengar, Dr.B.Krishna Gandhi S .Ranganatham, Dr.M.V.S.S.N.Prasad Probability and Statistics, S.Chand & Co, 2015.
3. R.S.N. Pillai and V.Bagavathi, Statistics, Sultan & Chand Sons, New Delhi 2010.
4. Sancheti. D.C and V.K. Kapoor, Statistical Theory-Method and Application, Sultan Chand & Sons 2010.
5. S C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, 2014.
6. Dr.S.Sachdeva, Statistics – Lakshmi Narain Agarwal, 2014

JOURNALS:

1. Journal of Applied Statistics
2. Journal of Statistical Software
3. The STATA Journal
4. Journal of Statistics Education

E-LEARNING RESOURCES:

1. <https://www.statista.com>.
2. <https://techjury.net>
3. elearning.ec.unipi.gr/eLearning
4. <http://www.coursera.org/learn/economics>
5. <http://www.springboard.com>

COURSE OUTCOME:

On Completion of the Course the students will be able to

CO NUMBER	CO STATEMENT
CO1	Perform test of Hypothesis and estimate Mean and Proportions using confidence intervals.
CO2	Construct Point and Interval estimates and the properties of estimators.
CO3	Apply test of Hypotheses and use Non-Parametric test.
CO4	Construct and conduct F-test, and Analysis of Variance and interpret the results obtained.
CO5	Acquire an In-depth knowledge on Ms.-Excel and SPSS packages.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES:

CO/PSO	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	2	1	3	3	2	3
CO2	2	1	3	2	1	3
CO3	2	2	3	3	2	3
CO4	2	2	3	3	2	3
CO5	2	2	3	3	2	3
AVERAGE	2	1.6	3	2.8	1.8	3

KEY: STRONGLY CORRELATED-3 MODERATLY CORRELATED - 2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER II
ECONOMICS OF SOCIAL ISSUES

Total Hours: 60
Credits: 3

Course Code: 3P21/2E2/ESI
LTP: 3/1/0

COURSE OBJECTIVES

1. To enable the students to understand the various social doctrines.
2. To gain factual knowledge about various social issues
3. To make judgment and independent analysis on contemporary issues
4. To identify vital parameters of socio -economic indices
5. To study about cyber crimes and crime against women and children

COURSE OUTLINE

- UNIT I** : Social Economics - Concepts - Definition – Scope – Social Doctrines – Mahatma Gandhi – Karl Marx – Max Weber – Social Problems – Urban and Rural. (10Hours)
- UNIT II** : Global Poverty - Causes - Consequences – Urban Poor, Slums, Beggary – Status of Refugees in India – Problems and Measures – Migration - Pandemic Impact on Migrant Workers in India. (10 Hours)
- UNIT III** : Global Unemployment – Causes - Types (Open, Under, Disguised Unemployment) Rural and Urban India - Current Trends in Organized and Unorganized Sector – Wage Differentials - Employment Schemes and their Impact -Micro Enterprises - SHG's and Women Empowerment. (15 Hours)
- UNIT IV** : Human Capital – Issues related to Secondary and Higher Education – New Education Policy - Health Education Strategy – National Skill Development Corporation - Human Development Index - Gender Development Index - GEM (Gender Empowerment Measure) - Global Happiness Index. (10 Hours)
- UNIT V** : Economics of Black Economy - Parallel Economy – Corruption – Cyber Crimes – Mobile Security Issues – Personal Data Privacy - Crimes against Women and Children - Human Rights Violation - Economics of Terrorism. (15 Hours)

RECOMMENDED TEXTBOOKS:

1. Ishwar .C Dhingra,” Economic and Social Issues India & International for RBI, NABARD & other Competitive Exams”., Cosmos Book Hive, Jan 2016.
2. Ram Ahuja, “Social Problems in India”, Rawat Publication, 2014.

REFERENCE BOOKS:

1. Paul W. Grimes, Economics of Social Issues, 21st Edition, McGraw-Hill Higher Education, 2015.
2. V.K. Puri &S.K.Misra, Indian Economy, Himalaya Publications, 2018.
3. Dhruv Kumar, Economic & Social Issues in India, Ramesh Publishing House, 2018.
4. Ansel Sharp, Charles Register, Paul Grimes, Economic & Social Issues, McGraw-Hill/Irwin; 20th Edition, 2013.
5. Dutt & Sundharam, Indian Economy, S. Chand Publishers, 2017
6. India 2018, A Reference Annual. Publication Division Government of India.
7. Dhruv Kumar, Economics and Social issues in India -. Ramesh Publishing House, 2018.
8. Joseph P Daniels and David D Vanhoose, Global Economic Issues and Policies, Rout ledge, 2018
9. WHO The Economics of Social Determinants of Health and Health Inequalities- A resource Book, WHO, 2013.

JOURNALS:

1. Journal of Socio and Economic Development - Springer.
2. International Journal of Social Economics

E-LEARNING RESOURCES

1. <https://www.boell.de>
2. www.globalissues.org
3. <https://www.mheducation.com>
4. <https://socialeconomics.org>
5. <https://www.economist.com>

COURSE OUTCOMES:**On Completion of the Course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Outline the social doctrines of economic thinkers and recognize the social problems
CO 2	Analyze global poverty, Migration trends and its counteractive measures
CO 3	Evaluate the impact of unemployment and the remedial measures through employment schemes
CO 4	Identify the vital parameters relating to human capital and the various Human Development Indexes
CO 5	Develop awareness about black money, economics of terrorism and other socio-economic issues.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	2	2	2	2	2
CO2	2	3	2	2	3	2
CO3	3	3	2	3	3	2
CO4	2	3	3	2	3	3
CO5	3	3	2	2	3	2
AVERAGE	2.4	2.8	2.2	2.2	2.8	2.2

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED -2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER II

HEALTH CARE MANAGEMENT

Total Hours: 60

Course Code: 3P21/2E/HCM

Credits: 3

LTP: 3/1/0

COURSE OBJECTIVES:

1. To identify the importance of health and health indicators
2. To understand the role of health education.
3. To assess preventive, promotive and curative care in health management
4. To study the importance of health insurance.
5. To know the recent trends in health care.

COURSE OUTLINE:

- UNIT I** : Definition of Health – Types of Health – Factors for Good Health – Preserving Good Health – Health Indicators - Health as a Component of Human Resource Development – Scope of Health Management. (10 Hours)
- UNIT II** : Health Awareness – Health Education – Importance and Principles – Approaches to Health Education – Health Education and Health Services – Planning Health Education. (10 Hours)
- UNIT III** : Health Management – Preventive, Promotive and Curative Care – Individual Health Care - Benefits of a healthy Lifestyle - Steps to Prevent Illness - Importance of Vaccination – Hygiene – Food Safety – Yoga - Meditation and Naturopathy - Role of the State in Health Care – Rural Health Care – Telemedicine. (15 Hours)
- UNIT IV** : Health Insurance – Definition – Need – Types – Principles – Government Health Insurance Schemes – Private Insurance Players. (10 Hours)
- UNIT V** : Health Promotion – Disease Prevention – Pandemic – Impact – Preventive Measures - First Aid – Importance – Need for First Aid — Medical Tourism in India – Reasons for the Growth and Trends – Accreditation – Artificial Intelligence for future of Health Care in India. (15 Hours)

RECOMMENDED TEXTBOOKS:

1. Pradeep, Bharadwaj Health Care Management Jaypee Publications, Delhi 2015
2. Nancy H Shanks and Sharon B Buchbinder, Introduction to Health care Management, Jones and Bartlett Learning Denver, 2012.

REFERENCE BOOKS:

1. Kieran, Walshe, et.al, Health Care Management, McGraw Hill Education UK, – 2011.
2. Lawton Robert Burns et.al., Health Care Management Organization, Design and Behaviour, DELMAR, Cengage Learning, USA, 2012.
3. Nancy H Shanks and Sharon B Buchbinder, Introduction to Health care Management, Jones and Bartlett Learning Denver, 2012.
4. Kshitij Patukale, 'Mediclaime and Health Insurance', Ocean Book Pvt. Ltd. 2013
5. Parag Suresh Mahajan, 'Artificial Intelligence in Health care', Harper Collins, 2018

JOURNALS:

1. Journal of Health Care Management
2. Journal of Health Management

E-LEARNING RESOURCES:

1. <http://human-resources-health.biomedcentral.com>
2. <http://bmjopen.bmj.com>
3. <http://www.e-lfh.org.uk>
4. <http://www.nnit.com>
5. <https://link.springer.com>

COURSE OUTCOMES:

On Completion of the Course the students will be able to

CO Number	CO STATEMENT
CO 1	Discover the importance and the scope of health Care management
CO 2	Summarize the role of Health Education.
CO 3	Review preventive and curative care and Personal Healthcare Management
CO 4	Appraise the need for health insurance
CO 5	Evaluate the growth of medical tourism in India and AI for future of Healthcare in India

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	2	3	3	3	2
CO2	3	2	3	3	3	3
CO3	3	3	2	3	3	2
CO4	3	2	3	2	3	3
CO5	3	3	3	3	3	3
AVERAGE	3	2.4	2.8	2.8	3	2.6

KEY: STRONGLY CORRELATED -3

MODERATELY CORRELATED -2

WEAKLY CORRELATED -1

NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III
INDIAN ECONOMY PROBLEMS AND POLICIES

Total Hours: 90
Credits: 4

Course Code: 3P21/3C/IEP//8P21/3C/IEP
LTP: 3/3/0

COURSE OBJECTIVES:

1. To understand the functions of NITI Aayog
2. To analyse the various government poverty alleviation programmes
3. To identify the challenges of agricultural sector
4. To appraise the role of the industries in the current scenario.
5. To assess the urban development strategies, migration and its impact.

COURSE OUTLINE:

- UNIT I** : Indian Economy Development and Planning – Alternative Development Strategies - Goal of Self-Reliance – Post 1991 Strategies of Development – Planning Commissions – NITI Aayog. (20 Hours)
- UNIT II** : Poverty in India – Estimation and Committees – Trickle Down Approach - Inclusive Growth and Multi-Dimensional Poverty Index – Poverty Eradication Schemes in India – Inequality in India – Lorenz Curve – Gini Co-efficient – Unemployment – Nature - Estimates - Trends – Causes - Employment Generation Programmes in India.(20 Hours)
- UNIT III** : Agriculture - Land Reforms in India – Cropping Patterns in India-Agrarian Distress – Farm Subsidies in India – Irrigation – Power – Fertilizer - Seed - Credit – MSP – PDS – National Food Security Act – Agricultural Marketing – New Agriculture Policy – APMC Act 2003 - Private and Co-operative Sector in Agricultural Marketing – e- technology in Indian Agriculture to Aid the Farmers - Farm Bills 2020. (20 Hours)
- UNIT IV** : Industry – Industrial Policy Reform - Reservation Policy relating to MSMEs – Competition Policy – Public Sector reforms – Privatisation and Disinvestment – Make in India – Aatma Nirbhar Bharat - Start Up India – GST and its impact on Industries. (15 Hours)
- UNIT V** : Urbanization of India and Migration– Process of Growth of Urban Settlements – Urban Development Strategies - Migration and its Impact. (15 Hours)

RECOMMENDED TEXTBOOKS:

1. I.C.Dhingra Indian Economy, Sultan Chand and Sons, New Delhi, 2018.
2. Uma Kapila, Indian Economy – Performance and Policy, 16th Edition – Academic Foundation, New Delhi 2015-16.
3. Vaidyanathan, A. Performance of Indian Agriculture since Independence, Kaushik Basu, Agrarian Questions Oxford University Press, 1998

REFERENCES BOOKS:

1. Economic survey – Vol.2, Government of India, Ministry of Finance, Department of Economic Affairs, Economic Division, August 2021
2. Gupta K.R, Indian Economy: Issues and Concerns, Atlantic Publishers and Distributors Pvt. Ltd, 2018.
3. Dutt and Sundaram, Indian Economy, Sultan. Chand and Sons, 2018.
4. Chandra Shekhar Prasad, Indian Economy- A Performance Review, New Century Publications, 2010.
5. Misra and Puri; Indian Economy, Himalaya Publication House, New Delhi 2017.

JOURNALS:

1. Indian Economic Journals Sage Publications
2. International Journal of Trend in Scientific Research and Development

E-LEARNING RESOURCES:

1. [hdr.undp.org>themes> ind](http://hdr.undp.org/themes/ind)
2. <https://us.sagepub.com>
3. [data.gov.in>five-year plans](http://data.gov.in/five-year-plans)
4. <https://www.journalpressindia.com>
5. <https://www.epw.in>
6. [www.india.gov.in>agriculture](http://www.india.gov.in/agriculture)
7. [www.ibef.org>industry](http://www.ibef.org/industry)
8. [www.ibef.org>economy>fdi](http://www.ibef.org/economy/fdi)

COURSE OUTCOME:

On Completion of the Course the students will be able to

CO NUMBER	CO STATEMENT
CO 1	Review the various Plans and NITI Aayog.
CO 2	Discuss Poverty and Unemployment in the Indian context.
CO 3	Identify the challenges of agricultural sector.
CO 4	Appraise the role of the industrial Policy Reforms.
CO 5	Outline the importance of Urbanisation in India.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	2	3	2	1	1	1
CO2	2	2	1	2	2	2
CO3	2	2	1	2	2	2
CO4	3	3	2	2	2	2
CO5	2	2	2	1	2	2
AVERAGE	2.2	2.4	1.6	1.6	1.8	1.8

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED-2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III
MONETARY ECONOMICS

Total Hours: 75
Credits: 4

Course Code: 3P21/3C/MOE//8P21/3C/MOE
LTP: 3/2/0

COURSE OBJECTIVES:

1. To understand the role of money supply in the economy.
2. To identify the importance of banking and non banking financial intermediaries
3. To Analyse the recent monetary policy and its impact on Indian economy
4. To Examine the latest developments in theories of demand for money
5. To quantify the relationship between money supply and price

COURSE OUTLINE:

- UNIT I** : Demand for Money – Classical Quantity Theory of Money – Keynesian Theory of Demand for Money – Post Keynesian Theory - Milton Friedman - W.J.Baumol - James Tobin – Mosler Modern Monetary Theory – Transmission Mechanism of Monetary Policy.
(15 Hours)
- UNIT II** : Supply of Money – Components - Measures of Money Supply – Determinants – Currency Circulation in India – Role of RBI – Regulation of Money Supply and Credit –Narasimhan Committee 1 & 2 – Raguram Rajan Committee Report 2007 - Nachiket Mor Committee - P.J. Nayak Committee
(15 Hours)
- UNIT III** : Implementation of Basel Norms - Commercial Banks – Moratorium – Balance Sheet Analysis and Portfolio Management - Financial Indicators – Capital Adequacy Ratio - Current Ratio / Liquidity Ratio – Tangible Network – Return on Investment – Bankruptcy – Insolvency Code Act.
(15 Hours)
- UNIT IV** : Financial Intermediaries – Non-Banking Financial Intermediaries (NBFI) – Nature – Functions – Money and Capital Market in India. - SEBI – Global Stock Market -NASDAQ
(15 Hours)
- UNIT V** : Inflation – Long Run Phillip’s Curve - Monetary Policy – Target – Indicators and Instruments – Rules versus Discretion – Time Consistency in Monetary Policy – Indian Monetary Policies and Covid - 19 Crisis.
(15 Hours)

RECOMMENDED TEXTBOOKS:

1. R.R.Paul, Monetary Economics, Kalyani Publishers, 11th Edition, 2015.
2. Sethi, T.T, Monetary Economics, S. Chand and Co., New Delhi, 2018.
3. M.C. Vaish, Monetary Economics, Vikas Publishing House, 16th edition, 2009.
4. M.L.Seth, Monetary Economics, Lakshmi Narain Agarwal, 2016
5. P.C Jain and S.S.Verma, Money and Financial Systems, Sahithya Bhawan Publications, 2018
6. N.K.Sinha, Money Banking and Finance, BSC Publishing 3rd Edition, 2019

REFERENCE BOOKS:

1. Harry G.Johnson, Essays in Monetary Economics, Routedledge Publishers, 2013
2. M.L Jhingan Monetary Economics- 7th Edition Vrinda Publications, 2015
3. Bruce Champ and Scott Freeman, Modeling Monetary Economics, Cambridge University Press, 4th Edition, 2018
4. M.L.Seth-Money, Banking, International Trade and Public Finance- Lakshmi Narian Agarwal 2017.
5. Weekly Statistical Supplement–RBI 2021.
6. William Warrand Carlile. Monetary Economics, Went Worth Press Publishers 2016.
7. R.D.Gupta & R.K.Lekhi Keynes and Post Keynesian Economics, Kalyani Publishers, 2017
8. D.,M. Mithani, Money, Banking, International Trade and Public Finance Paperback 2018, Himalaya Public House,

JOURNALS:

1. Journal of Monetary Economics - Elsevier.
2. International Journal of Monetary Economics and Finance (IJMEF)
3. Reserve Bank of India, Annual Report

E- LEARNING RESOURCES:

1. <https://www.scimagoga.com>
2. jme.rochester.edu
3. <https://www.journals.elsevier/IDEAS/RePEC>.
4. <https://m rbi..org .in>
5. <https://www.inderscience.com/jhome.php?jcode=ijmef>

COURSE OUTCOMES:**On Completion of the Course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Examine the latest developments in theories of demand for money.
CO 2	Quantify the relationship between money supply and price.
CO 3	Assess the financial indicators of commercial banks.
CO 4	Appraise the role of financial and non-banking financial intermediaries.
CO 5	Analyse the recent monetary policy and its impact on Indian economy.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	3	2	3	2
CO2	3	2	2	2	3	2
CO3	3	3	2	3	3	2
CO4	3	3	2	3	3	2
CO5	3	3	3	3	3	2
AVERAGE	3	2.8	2.4	2.6	3	2

KEY: STRONGLY CORRELATED -3 MODERATLY CORRELATED-2
 WEAKLY CORRELATED -1 NO CORRELATION -0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III
RESEARCH METHODOLOGY AND COMPUTER
APPLICATIONS IN ECONOMICS

Total Hours: 75
Credits: 4

Course Code: 3P21/3C/RMC//8P21/3C/RMC
LTP:2/2/1

COURSE OBJECTIVES

1. To understand the scientific research process.
2. To study the various methods and sources of collecting data.
3. To learn computer applications in executing economic research
4. To use software tools in data maintenance and operations
5. To Apply statistical tools in analyzing the project report

COURSE OUTLINE:

- UNIT I** : Research in Social Sciences – Role of Research Methodology – Research Process – Conceptual Foundation of Research – Economic Theory and Methods – Axiomatic, Mathematical and Historical Methods – Empirical Research – Basic Elements in Research – Identification of a Research Problem – Hypothesis Formulation and Testing – Ethics in Research.
(15 Hours)
- UNIT II** : Data Collection – Primary Data – Case Study Method – Survey Research – Sample Selection – Sampling Design – Preparation of Structure Interview Schedule – Construction of Questionnaire – Pilot Study – Classification and Tabulation – Diagrammatic Representation – Secondary Data – Sourcing of Data for India and Tamil Nadu – Census of India, NSSO - NFHS – National Accounts Statistics - Economic Survey, RBI Report, Agricultural Census, Annual Survey of Industries.
(15 Hours)
- UNIT III** : Concept of Data, Record and File – Type of Data and Data Structure – Data – File Handling and Operations – Data Storage and Retrieval – Data Operations–Algorithms like Sorting, Merging, Joining and Bifurcation – Data Base Concept and Operation on Data Base - Citation Data Base Series – Group Tables – Groups and Objects – Time and Frequency Series – Scopus - Research Metrics
(15 Hours)
- UNIT IV** : Report Writing – Plan of Research Report – Style and Mechanics of writing Research Report - Publication Ethics – Importance - Violation of Publication Ethics -Plagiarism - Predatory Publishers and Journals
(15 Hours)
- UNIT V** : Application of Software to Economic Research – SPSS – Use of Plagiarism Software Tools. **(Practical Examination only. No question for End Semester Examination)**
(15 Hours)

RECOMMENDED TEXTBOOKS:

1. C.R Kothari and Gaurav Garg, Research Methodology: Methods and Techniques, New Age International Publishers, 2019.
2. Dr.Priti R. Majhi and Dr.Prafull K.Khatua, Research Methodology (Concepts, Methods, Techniques and SPSS), Himalaya Publishing House, 2013.

REFERENCE BOOKS:

1. A.K.Das Gupta, Methodology of Economic Research, Asia Publishing House, 2007.
2. Robert Feber and P J Verdoorn, Research Methods in Economics and Business, The Macmillian Company, 2005.
3. Goode, William J and Paul K Hatt, Methods in Social Research, McGraw Hill International Book Co., London. 2017.
4. Young, Pauline V, Scientific Social Surveys and Research, Prentice Hall of India, New Delhi, 2012.

JOURNALS:

1. International Journal of Quantitative and Qualitative Research Methodology
2. International Journal of Research Methodology

E-LEARNING RESOURCES:

1. <https://www.khanacademy.org>
2. <https://www.economicsnetwork.ac.uk>el>.
3. <https://elearneconomics.com>
4. <https://libguides,wits.ac.za>
5. <https://research-methodology.net>

COURSE OUTCOMES:**On Completion of the Course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Identify the research problem and research process scientifically.
CO 2	List the various methods and sources of collecting data.
CO 3	Explore the software tools in data maintenance and operations.
CO 4	Apply statistical tools in analyzing the project report.
CO 5	Apply software in conducting research in economics.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	1	2	2	1	2
CO2	2	3	3	2	2	3
CO3	1	2	3	3	3	3
CO4	2	3	3	3	3	3
CO5	3	3	3	3	3	3
AVERAGE	2.2	2.4	2.8	2.6	2.4	2.8

KEY: STRONGLY CORRELATED -3 MODERATLY CORRELATED -2

WEAKLY CORRELATED -1 NO CORRELATION -0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III
BEHAVIOURAL ECONOMICS AND DECISION MAKING

Total Hours: 60
Credits: 3

Course Code: 3P21/3E3/BED
LTP:3/1/0

COURSE OBJECTIVES

1. To understand the Concepts of Behavioural Economics.
2. To understand People's Behaviour in Decision Making.
3. To get an insight on application of behavioural economics in marketing and related fields.
4. To study the various models in Behavioural Economics.
5. To Enable the Students to understand the challenges involved in implementing public policies.

COURSE OUTLINE:

- UNIT I** : Behavioural Economics – Evolution – Objectives – Scope – Methodology - Relation with other disciplines (10 Hours)
- UNIT II** : Values, Preferences and Choice - Heuristic and Biases - Decision Making - Under Risk and Uncertainty - Prospect Theory - Role of Preference - Dependent Preference in Both Risky (Loss Aversion) and Risk Free (Endowment) Choices - Mental Accounting - Applications in Marketing – Nudging – Framing – Changing Behaviour (15 Hours)
- UNIT III** : Inter Temporal Choice - Discounted Utility Model – Origin – Features - Methodology – Anomalies - Alternative Inter Temporal Choice Models - Time Inconsistent Preferences - Hyperbolic Discounting - Exponential Discounting. (15 Hours)
- UNIT IV** : Fairness and Social Preferences - Nature - Factors Affecting Social Preferences - Distributional Social Preferences Based on Altruism, Inequality Aversion Models - Reciprocity Models. (10 Hours)
- UNIT V** : Incentives, Norms and Public Policy - Social Forces in Markets and Collective Action Problem - Social Incentives versus Financial Incentives using Behavioural Economics in Public Policy in the Indian Context. (10Hours)

RECOMMENDED TEXTBOOKS:

1. N. Wilkinson and M. Klaes An Introduction To Behavioral Economics, N. Palgrave Macmillan, 2012
2. Dan Ariely Predictably Irrational: The Hidden Forces That Shape Our Decisions, Harper Collins, 2009

REFERENCE BOOKS:

- 1 Phillip Corr and AnkePlagnol Behavioral Economics: The Basics 1st Edition, Kindle Edition, Routledge 2018.
- 2 Kahneman, Daniel, Paul Slovic, and Amos Tversky (Eds.).1982.
- 3 Judgment under Uncertainty: Heuristics and Biases, Cambridge University Press
- 4 Richard H. Thaler Nudge: Improving Decisions about Health, Wealth and Happiness, Penguin Publishers, 2012
- 5 David Correll Behavioural Economics: Psychology, Neuroscience, and The Human Side of Economics (Hot Science) Icon Books Ltd, 2021
- 6 David Kahneman Thinking Fast And Slow, Penguin Publishers 2012
- 7 George A. Akerlof and Robert J. Shiller Animal Spirits: How Human Psychology Drives The Economy, And Why It Matters For Global Capitalism, Princeton University Press, 2010
- 8 Michael Kremer And Rachel Glennerster Small Changes, Big Results: Behavioral Economics at Work in Poor Countries Kindle Edition,2011

JOURNALS

1. The Journal of Behavioral and Experimental Economics
2. Journal of Behavioral Economics for Policy
3. Journal of Behavioral Economics

E-LEARNING RESOURCES

[https://www.tutor2u.net/economics/topics/behavioural-](https://www.tutor2u.net/economics/topics/behavioural-economics)

[economicswww.christosaioannou.com/behavioral economics an introduction.pdf](https://www.christosaioannou.com/behavioral%20economics%20an%20introduction.pdf)

<https://dash.harvard.edu/bitstream/handle/1/30805504/95919624.pdf>

[https://www.oecd.org/regreform/regulatory-policy/flyerbehavioural.](https://www.oecd.org/regreform/regulatory-policy/flyerbehavioural)

[https://www.amazingpharmacy.org/0241951224-misbehaving-the-making-ofneo-classicalvs behavioural economics \(legalleadership.co.uk\)](https://www.amazingpharmacy.org/0241951224-misbehaving-the-making-ofneo-classicalvs-behavioural-economics)

COURSE OUTCOMES:

On Completion of the Course the students will be able to:

Co Number	CO STATEMENT
CO 1	Understand the Concepts in Behavioural Economics and the shift from Economics.
CO 2	Have an insight of the decision making under Risk and Uncertainty and Applications of Nudge in Marketing.
CO 3	Acquire knowledge on various models.
CO 4	Assess how Social Networks affect Decisions.
CO 5	Know the relevance of controlled experiments in Policy Making in the Indian Context.

Mapping-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	3	3	3	3
CO2	3	3	3	3	3	3
CO3	3	3	3	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	3	3	3	3
AVERAGE	3	3	3	3	3	3

KEY: STRONGLY CORRELATED-3

MODERATELY CORRELATED-2

WEAKLY CORRELATED-1

NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III
ECONOMICS OF INFRASTRUCTURE

Total Hours: 60
Credits: 3

Course Code:3P21/3E4/ECI
LTP: 3/1/0

COURSE OBJECTIVES:

1. To familiarize the students with role of infrastructure in economic development.
2. To identify the strategies required for the growth of the Economy in the present scenario.
3. To assess the role of public and private sector.
4. To know costing and price of infrastructure services.
5. To understand the importance of energy conservation..

COURSE OUTLINE:

- UNIT I** : Infrastructure Sector – Definition, Growth and Development – Infrastructure as a Public Good, Social and Physical Infrastructure – Dual Principal (PLE) Controversy - Issues in Privatisation of Infrastructure - Smart City - Key Components, Performance and Challenges (10 Hours)
- UNIT II** : Structure of Transport Costs and Location of Economic Activities Demand Transport - Special Characteristics of Utilities - Peak – load, Off - Load problem - Models of Freight and Passenger Demand - Models Choice; Cost Function in the Transport Sector - Principle of Pricing - Special Problems of Individuals - Modes of Transport – Road, Railways, Civil Aviation – Ports – Government Policy Initiatives. (15 Hours)
- UNIT III** : Tele Communication in India - Private Sector Participation in Communication - Primacy of Energy in the Process of Economic Development – Demand Determinants of Energy – Energy Shortage – Effects – Energy Conservation – Optimal Energy Policy in Indian Context. (15 Hours)
- UNIT IV** : Organization and Financing of Services– Private vs. Public Sector Financing - The Fixation of Prices of Social Services – Health Infrastructure and Covid-19 in India - Education – Universal Free Primary Education - Structure of Higher Education – Impact of Covid19 on Education system. (10 Hours)
- UNIT V** : Infrastructure in Modern India – Strategies for Infrastructure Development – Infrastructure Investments in India – Prioritization of Infrastructure Sectors for Development - Macro Perspective of Infrastructure Development in India. (10Hours)

RECOMMENDED TEXTBOOKS:

1. L.N Dash Economics of Infrastructure- Growth and Development, Regal Publication, 2007.
2. R.N.Joshi Public Private Partnership in Infrastructure, Vision Book Publications, 2012.

REFERENCE BOOKS:

1. Morris, S. 'Infrastructure', in Kaushik Basu Edition, The Oxford Companion to Economics in India, Oxford University Press, New Delhi, 2007.
2. J.G.Valan Arasu, Globalization And Infrastructural Development In India, Atlantic edition 2008
3. Majumder Rajarshi, Infrastructure and Development in India Inter linkages and Policy Issues, Rawat Publications, 2008.
4. Das, K. 'Lopsided Infrastructure', in Alternative Survey Group (Ed.), 2010, Alternative Economic Survey, India: Two Decades of Neo liberalism, Daanish Books, Delhi, pp. 195-209.
5. India 2020, Planning Commission, A White Paper on Infrastructure, Planning Commission, New Delhi, January, 2005.
6. Strategic Infrastructure Development for Economic Growth and Social Change Biographies Edition, January, 2015.

JOURNALS:

1. Journal of Development Policy and Practice
2. Journal of South Asian Development

E-LEARNING RESOURCES:

1. <https://www.indianeconomy.net/splclassroom/major-urban-infrastructure-development-programmes-in-india/>
2. www.decd.org.edu.leri
3. <https://www.toppr.com/infrastructure-and-economic-development/>
4. <http://www.yourarticlelibrary.com/human-resource-development/>
5. <https://www.nber.org>

COURSE OUTCOMES:

On Completion of the Course the students will be able to:

CO Number	CO STATEMENT
CO 1	Explain the basic concepts in Infrastructure, Issues in Privatisation of Infrastructure
CO 2	Assess the Structure of Indian Transport System
CO 3	Evaluate the importance of energy sector
CO 4	Analyze the role of public and private sector, impact of Covid -19 in education and health care systems in India.
CO 5	Review the Global Perspective of Infrastructure.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	2	3	3	3
CO2	3	3	3	3	3	3
CO3	3	3	2	3	2	3
CO4	3	3	2	3	3	3
CO5	2	3	2	3	3	3
AVERAGE	2.8	3	2.2	3	3	3

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED -2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word limit	Marks	Total	Special Instructions If Any
K 3	A-5/8x8 Marks	500	40	100	Question No.- Is Compulsory
K4,K5	B-3/5x20 Marks	1200	60		

**SEMESTER III
GENDER ECONOMICS**

**TOTAL HOURS: 60
CREDITS: 3**

**COURSE CODE: 3P21/3E4/GEE
LTP: 3/1/0**

COURSE OBJECTIVES:

1. To understand the basic concepts of gender, gender equity and bias.
2. To gain knowledge on gender and discrimination indices.
3. To study the concepts of women in development process and women empowerment
4. To study the Contributions of Gender Analysis to Economics
5. To review the status of women in India and analyse various initiatives undertaken for Women.

COURSE OUTLINE:

- UNIT I** : Gender Economics - Meaning - Patriarchy and Gender - Core Principles of Feminist Economics - Understanding the Economy as a Gendered Structure - Demographic Changes and Gender Status – Gender Shift - Female Population – Age Structure – Sex Ratio – Literacy – Health – Gender Inequality Indices (GII) – MPI – WEIA, SIGI, GDI, GEM, GPI.
(10 Hours)
- UNIT II** : Contributions of Gender Analysis to Economics - Economics of the Labor Market - Gender Wage Gaps – Marginalization of Women in Unorganized Sector – Discrimination - New Perspectives on Gender - Personality Traits and their Relevance to Gender - The role of Cultural Norms and Identity
(15Hours)
- UNIT III** : Economics of the Household – Division of Household Work (Gary Becker) – Women in household decisions – Bargaining Power – Unpaid Domestic Work - Measuring and Valuing Unpaid Work – Time Use Survey Report 2019 - Gender Bias – Class Ceiling – Stereotyping of Women’s Work - and Gender Roles in Agricultural and Natural Resource Use - Impact of Bias - Gender Dynamics Within Agricultural Households - Discrimination Within Family (Asa –Rosen Model)
(15Hours)
- UNIT IV** : Women and Migration - Causes of Migration - Experience of Migration – Consequences of Migration – Gender Inequality – Violence – Conflicts and Governance .
(10Hours)
- UNIT V** : Gender Responsive Budget– Committee on Status of Women in India – Gender Issues in Global Context - Gender Aware Economic and Equality Policies.
(10 Hours)

RECOMMENDED TEXTBOOKS:

1. K.R.Gupta, Gender Problems and Policies, Atlantic, 2009.
2. Joyce Jacobsen , The Economics of Gender, Wiley – Blackwell Publisher 3rd Edition, 2007

REFERENCE BOOKS:

1. Padmini Swaminathan, Women and Work, Orient Black Swan Private Limited, New Delhi, 2018.
2. Amy C. Alexander ,Catherine BolzendahlFarida Jalalzai(Editors) Measuring Women’s Political Empowerment across the Globe: Strategies, Challenges and Future Research (Gender and Politics) Palgrave Macmillan 2017
3. David Lawson, Adam Dubin, et al. Gender, Poverty and Access to Justice: Policy Implementation in Sub-Saharan Africa (Routledge Studies in Development Economics) December 2021
4. K. Nauriyal Migration, Gender and Home Economics in Rural North India Routledge, 2019
5. Manoranjan Pal ,Bharati Premananda, Bholanath Ghosh,T.S. Vasulu, Gender and Discrimination: Health, Nutritional Status and Role of Women in India Oxford University Press 2011
6. Jaya Shrivatsava Gender Discrimination and Inequality in Contemporary India: Dimensions and Voices of Protests, Kalpaz Publications, 2018.
7. Rajiv Azad Gender Discrimination: An Indian Perspective Atlantic Publishers and Distributors Ltd, 2014

JOURNALS:

1. International Journal of Gender and Women’s Studies
2. Feminist Economics.
3. Special Issues of Economic and Political Weekly

E-LEARNING RESOURCES

1. <https://ourworldindata.org>
2. <http://gendersocietywordpress.com>
3. <https://www.unwomen.org>
4. <https://www.online.colostate.edu/courses/ECON/ECON211.dot>
5. <https://https://www.soas.ac.uk/courseunits/153401001.html>

COURSE OUTCOMES:**On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	To know the meanings of gender economics and related concepts
CO 2	To get an insight into the discrimination in labour market.
CO 3	To analyse the dynamics of female workforce participation
CO 4	To understand the causes and consequences of women migration.
CO 5	To review the status of women in India and analyse various initiative undertaken for women empowerment.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	2	3	3	3
CO2	3	3	3	2	3	3
CO3	3	3	2	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	2	2	3	3
AVERAGE	3	3	2.4	2.6	3	3

KEY: STRONGLY CORRELATED - 3 MODERATELY CORRELATED - 2
WEAKLY CORRELATED - 1 NO CORRELATION - 0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word limit	Marks	Total	Special Instructions If Any
K 3	A-5/8x8 Marks	500	40	100	Question No.- Is Compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III

HOSPITAL ADMINISTRATION

Total Hours: 60

Course Code: 3P21/3E/HOA

Credits: 3

LTP: 3/1/0

COURSE OBJECTIVES:

1. To know the administrative functions of Hospital.
2. To learn the budgeting process.
3. To understand the Efficiency and Effectiveness in Hospital Administration.
4. To revive the Quality Standards of hospitals.
5. To familiarize on the importance of Accreditation and patient rights.

COURSE OUTLINE:

- UNIT I** : Concept of Hospital – Different Types of Hospitals – Features – Constraints in Administration - Hospital Administration – Definition – Functions – Modern Techniques – Role and Responsibilities of Hospital Manager. (10 Hours)
- UNIT II** : Accounting Principles – Systems – Budgeting Process – Depreciation – HR Planning – Management and Administration of Doctors – Nursing Staff – Supporting Staff. (15 Hours)
- UNIT III** : Assessment of Patient Satisfaction – Indicators of Hospital Efficiency and Effectiveness – Nursing Services in Hospital – Issues in Administration – Bio – Medical Waste – Hazard and Safety Set Up – Rehabilitation Services - Organ Transplantation (15 Hours)
- UNIT IV** : Medical Licensure Law – Doctor Patient Relationship – Medical Malpractices – Quality and Standard of Medical Care – Medical Negligence – Legal Issues in Death – Drug Trial – Truth and Professional Secrecy. (10 Hours)
- UNIT V** : Quality Accreditation in Hospitals – Accreditation System – Process – Procedure – Joint Commission International (JCI) – National Accreditation Board for Hospitals (NABH) – Benefits of NABH to Hospitals – Employees – Patients’ Rights and Provider’s Responsibility. (10 Hours)

RECOMMENDED TEXTBOOKS:

1. R.M.Sakharkar, Principles of Hospital Administration and Planning, Jaypee Brothers Medical Pub, 2009.
2. G.D.Kunders, Hospitals Facilities Planning and Management, McGraw Hill Education, 1stEdition, 2017.
3. Francis cm et al, Hospital Administration 3rd Edition, Jayper Publishers (p) Ltd., New Delhi, 2019
4. Sakharkar B.M. Principles of Hospital Administration and Planning Jayper Publication (P) Ltd., New Delhi, 2008,
5. Mendel Hall.W Introduction to Probability And Statistics 7th Edition - T.M. Publication, 2011.

REFERENCE BOOKS:

1. Syed Amin Tabish, Hospital and Health Services Administration, OUP New Delhi, 2001.
2. Amarjeet Singh SonuGoel and Anil Kumar Gupta, Hospital Administration A Problem – Solving Approach, Elsevier, 2013.
3. Yaspal Sharma, RK Sharma, Libert Anil Gomes, Hospital Administration Principles and Practices, Jaypee Brothers Medical Publication Pvt. Ltd New Delhi, 2013.
4. Kohn L, Corrigan J, Donaldson M, Committee on Quality of Health Care in America IoM, editors. To Err Is Human: Building a Safer Health System. Washington, D.C.: National Academy Press; 2000.

JOURNALS:

1. International Journal of Research Foundation of Hospital and Healthcare Administration.
2. Journal of Hospital Management and Health Policy (JHMHP)
3. International Journal of Science and Research (IJSR)
4. Journal of Healthcare Management.
5. Global Journal of Medical and Clinical Case Reports
6. Journal of Hospital Administration.

E-LEARNING RESOURCES:

1. <https://jhmhp.amegroups.com>
2. <http://www.springboard.com>
3. <https://journals.lww.com>
4. <https://www.mdlinx.com>
5. www.healthcare-management-degree.net

COURSE OUTCOMES:

On Completion of the Course the student will be able to:

CO Number	CO STATEMENT
CO 1	Understand the administrative functions of Hospital
CO 2	Analyse the accounting principles and the budgeting process.
CO 3	Assess the issues in administration.
CO 4	To know the Quality and Standard of Medical Care in hospitals.
CO 5	Review the importance of quality accreditation and patent rights.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	3	3	3	2
CO2	3	2	2	3	2	2
CO3	3	3	3	2	3	3
CO4	3	3	3	3	3	3
CO5	3	3	2	2	3	3
AVERAGE	3	2.8	2.6	2.6	2.8	2.6

KEY: STRONGLY CORRELATED-3
WEAKLY CORRELATED-1

MODERATELY CORRELATED-2
NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER III

YOGA AND MEDITATION FOR BETTER LIVING

Total Hours: 30
Credits:2

Course Code: 3P21/3S/YMB//8P21/3S/YMB
LTP: 1/0/1

COURSE OBJECTIVES:

1. To inculcate the art of Yoga, Mudras and Acupressure
2. To help students experience stress relief and rejuvenation

COURSE OUTLINE:

- UNIT I** : Yoga – Introduction – Yoga as a Science of Art - The Five Elements – Balancing the Five Elements- Yoga and Health Benefits (The Physical and Mental) – Theoretical Insight into 12 Asanas – Pranayama Techniques – Surya Pranayama – Nadishuddi and Bastrika – Diet – Nutrition and Health – Understanding Human anatomy. (10 Hours)
- UNIT II** : Meditation – Introduction – Brain Wave Patterns – Functions of Right brain & Left brain- The Conscious Mind and Sub Conscious Mind – Chakras – Koshas - Goal Visualization – The Physical and the Subtle Body – Positive Affirmations. (10 Hours)
- UNIT III** : Practice on 12 Asanas and Simplified Physical Exercises – Practical Sessions on Meditation – Surya Namaskar – Practical Lessons on Few Mudras, Acupressure Points and Benefits. (10 Hours)

RECOMMENDED TEXTBOOKS:

1. B.K.S.Iyengar, Light on Yoga: The Classic Guide to Yoga by the World's Foremost Authority, Harper Collins, India, 2006.
2. Mark Stephens, Teaching Yoga Essential Foundations and Techniques, North Atlantic Books, 2009.

REFERENCE BOOKS:

1. Meditation for Beginners–Vikasthalkani.
2. Simplified Physical Exercises –Vethathiri Maharishi.
3. Yoga Sutras of Patanjali – Hariharananda Aranya, University of Calcutta Press, Calcutta. 2012
4. Swami Satyananda Saraswathi- Asana Pranayama Mudra Bandha, Bihar School of Yoga 2013.
5. Leslie Kaminoff, Amy Mathews- Yoga Anatomy, Human Kinetics2011

E - LEARNING RESOURCES:

1. <https://www.verywellfit.com>
2. <https://www.meditationrelaxclub.com>
3. <https://www.heartfulness.org>

COURSE OUTCOMES:**On Completion of the Course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Synthesize on theoretical aspects of Asanas and Pranayama techniques
CO 2	Rejuvenate body & mind through meditation
CO 3	Practice simple exercises based on Asanas and Mudras

KEY: STRONGLY CORRELATED -3
WEAKLY CORRELATED -1**MODERATELY CORRELATED -2**
NO CORRELATION -0**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3,K4,K5	A-10/12x5 Marks	100	50	50	Question No.- is compulsory

SEMESTER IV
ECONOMICS OF GROWTH AND DEVELOPMENT

Total Hours: 90
Credits: 4

Course Code: 3P21/4C/EGD//8P21/4C/EGD
LTP: 3/3/0

COURSE OBJECTIVES:

1. To know about Development concepts and indices
2. To critically analyse the various Development & Growth models
3. To understand the Multi-Dimensional Impact of Developmental Issues.
4. To Identify issues related to Globalisation, Gender and Growth trends in recent years
5. To enable the students to become competent for NET & SET Exams

COURSE OUTLINE:

- UNIT I** : Introduction – Historical Overview of Development – Economic Growth - Development vs Growth - Economic Development and Sustainable Development - Measures of Development – Vicious Circles of Poverty – Head Count Index and Poverty Gap – Connection between Inequality and Development – Comparing Development Trajectories across Nations - Green GDP - Gross National Happiness Index – Economic and Social Development in India – Millennium Development Goals – Sustainable Development Goals - Gross Development Indices – HDI, PQLI, GDI, GEM, GHI, SPI, EDI. (15 Hours)
- UNIT II** : Theories of Development – Adam Smith - Thomas Robert Malthus – Nobel Laureate Arthur Lewis – Model of Development – Ranis and Fei Model of Dual Economy – Harris – Todaro Model of Rural – Urban Migration - Jorgensons Model (20 Hours)
- UNIT III** : Models of Growth – Harrod – Domar Model – Nobel Laureate Rober Solow Model – Joan Robinson’s Model – James Meade Growth Model – Kaldor’s Growth Model – Uzawa - Lucas Model - New Growth Theory. (20 Hours)
- UNIT IV** : Choice of Techniques and Appropriate Technology – Nobel Laureate James M. Buchanan - Cost Benefit Analysis – Myrdal Theory of Cumulative Causation – Nobel Laureate Fleming – Mundell Trilemma – Leibenstein’s Critical Minimum Effort Theory - Nobel Laureate Milgrom and Wilson’s Auction Format. (20 Hours)
- UNIT V** : New Technology and Sustainable Agriculture - Globalization and Uneven Development - Gender and National Planning - Evaluation - Growth and Unemployment (Pre and Post Pandemic period) – Recent Trends Trade, Investment and Growth in India. (15 Hours)

RECOMMENDED TEXTBOOKS:

1. Taneja & Meier – Growth & Development Model & Planning, 2015
2. A.P Thirlwall, Growth and Development with Special reference to Developing Economies, Macmillan Education Limited 4th Edition .2011
3. Kaushik Basu, Analytical Development Economics: The Less Developed Economy Revisited, Oxford Indian Paperbacks, 2003.
4. M.L.Jhingan The Economics of Development and Planning, Vrinda Publication New Delhi, 2017

REFERENCE BOOKS:

1. Debraj Ray, Development Economics, Oxford University Press, 2009.
2. Hywel G Jones An Introduction to Modern theories of Economic Growth McGrawHill, 2016.
3. Dani Rodrick; The Globalisation Paradox. Why Global Markets, States and Democracy can't Co exist, Oxford Univ Press2011.
4. Human Development Report, 2016
5. World Development Report 2015.Mind, Society and Behaviour. World Bank Washington.
6. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, Understanding Poverty, Oxford University Press, 2006.

JOURNALS:

1. Journal of DevelopmentEconomics.
2. Review of DevelopmentEconomics.

E-LEARNING RESOURCES:

1. <http://www.coursera.org/learn/economics>
2. www.economicdiscussion.com
3. www.intelligenteconomist.com
4. www.iegindia.org
5. <http://link.springer.com>

COURSE OUTCOMES:

On Completion of the Course the students will be able to:

CO Number	CO STATEMENT
CO 1	Assess Poverty and Inequality and review the various Development Indices and make Cross Country Comparisons.
CO 2	Critically review various Theories of Development
CO 3	Analyse the various Theories of Growth
CO 4	Make choice in techniques of production, and to study latest Nobel Laureate theories.
CO 5	Identify issues related to Globalisation, Gender, Technology, and Growth trends in recent years.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	3	2	3	2
CO3	3	3	3	2	3	2
CO4	3	3	2	3	3	2
CO5	3	3	2	3	3	2
AVERAGE	3	3	2.6	2.6	3	2.2

KEY: STRONGLY CORRELATED -3 MODERATLY CORRELATED -2
WEAKLY CORRELATED -1 NO CORRELATION -0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER IV
INTERNATIONAL ECONOMICS

Total Hours :90
Credits :4

Course Code: 3P21/4C/INE
LTP: 3/3/0

COURSE OBJECTIVES:

1. To analyse the international trade theories.
2. To know about the exchange rate determination and control measures
3. To review of inflow foreign capital on India's Economic Development.
4. To help understand the role of financial institutions and trading Blocs
5. To Explore the role of various institutions in facilitating trade and agreements between countries and review the Financial Flows.

COURSE OUTLINE:

- UNIT I** : Theories of International Trade – Samuelson's Factor - Price Equalization Theory - Factor Intensity Reversals – Single – Multiple – Stopler - Samuelson Theorem and Metzler's Paradox - Rybczynski Theorem – Leontief Paradox, Immiserising Growth. - Krugman New Trade Theory. (15 Hours)
- UNIT II** : Terms of Trade in the Case of a Small Country and Large Country – Gains from Trade – Potential Gain and Actual Gain - Gains from Trade in the Case of Large and Small Country – TRIPS – TRIMS-TPRM - Neo Protectionism - Global Economic Instability (Pre and Post Pandemic) e curve - Correlation Between Trade and Growth.. (20 Hours)
- UNIT III** : Exchange Control – Features – Objectives - Methods – Determination of Exchange Rate – Asset Market Approach - Theories – Purchasing Power Parity - Interest Rate Parity - Balance of Payments (Modern Theory) – Fixed versus Flexible Exchange Rate - Current India's Exchange Rate Policy – FEMA (20 Hours)
- UNIT IV** : Foreign Direct Investment – Merits and Demerits – Out Flow of FDI - Role and Functions of Multinational Corporations – Outsourcing and Global Value Chain - Foreign Banks in India - Impact of Foreign Capital on India's Economic Development. (20 Hours)
- UNIT V** : IMF- World Bank - WTO – Financial Flow to Emerging Nations Amidst Covid -19 Pandemic - G20 - ADB – BRICS - BREXIT – Trading Blocs – SAARC – NAFTA – EU – EFTA – ASEAN – AFTA – RCEP - India's International Trade - Dimension and Trends (15 Hours)

RECOMMENDED TEXTBOOKS:

1. BoSodersten- International Economics, Macmillan Press Ltd London, 2014
2. Francis Cherunilam, International Economics, McGraw Hill Publishers 5th Edition, 2013
3. Dominick Salvatore – International Economics, John Wiley International Student Edition, 2014.

REFERENCE BOOKS:

1. Charles. P Kindleberger – International Economics, Macmillan Press Ltd London, 1999.
2. Paul Krugman, Mauris Obstfield and Marc Melitz, Addison- Wesley International Economics Theory and Policy, Pearson Education Indian Edition, 2014.
3. Robert Carbaugh- International Economics- Cengage Learning, 2016.
4. M.L. Jhingan International Economics, M.L. Vrindha Publications, 2016.
5. Appleyard D.R and Field AJ International Economics McGraw Hill, New Delhi, 2014.
6. Richard E Caver and Harry G Johnson, Readings in International Economics Gandolfo, Giancarlo International Trade Theory and Policy, Springer, 2014.

JOURNALS:

1. Journal of International Economics Science Direct.com
2. International Economics Elesiver .IDEAS/RePEC

E- LEARNING RESOURCES:

1. <https://journalistresource.org>
2. <https://wps.pearsoned.co.uk>
3. <https://krannert.purdue.edu>
4. <https://journals.elsevier.com>
5. <https://library.qmul.ac.uk>

COURSE OUTCOMES:

On Completion of the Course the students will be able to:

CO Number	CO STATEMENT
CO 1	Interpret the theories of international trade.
CO 2	Discuss the concept of terms of trade, Gains from trade and correlation between Trade and Growth.
CO 3	Explain the determination of exchange rate, relative theories and FEMA.
CO 4	Appraise the relationship between Foreign Direct Investment, Multinational Enterprises, and economic growth.
CO 5	Explore the role of various institutions in facilitating trade and agreements between countries and review the Financial Flows.

MAPPING - COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	2	2	3	2
CO2	2	3	2	3	3	2
CO3	3	3	2	2	2	2
CO4	2	3	2	2	3	2
CO5	2	3	2	3	3	2
AVERAGE	2.4	3	2	2.4	2.8	2

KEY: STRONGLY CORRELATED-3 MODERATLY CORRELATED -2
 WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER IV
ENVIRONMENT AND RESOURCE ECONOMICS

Total Hours: 90
Credits: 4

Course Code: 3P21/4C/ERE//8P21/4C/ERE
LTP: 3/3/0

COURSE OBJECTIVES

1. To provide an understanding of Environmental Economics.
2. To bring awareness of the problems associated with Resources Depletion.
3. To analyse the concepts of efficiency and reasons for externalities
4. To enhance the ability to analyse the importance of Policy Making.
5. To understand the policy implementation and the role of various stakeholders in protecting environment

COURSE OUTLINE:

- UNIT I** : Introduction to Environment in Economic Theory – Basic Concepts- Economy – Environment Linkages – Material Balance Approach – Trade Off Between Economic Growth and Development – Environment Kuznets Curve– Sustainable Development – Importance - Components. (15 Hours)
- UNIT II** : Welfare Economics – Pareto Efficiency - Economic Efficiency – Consumption - Production and Product Mix Efficiency – Types of Efficiency -Social Welfare Function and Optimality – Public Goods and Market Failure –Externalities - Types – Global Environmental Externalities – Biodiversity - Climate Change - Paris Agreement – International Environment Agreements – Rio Conventions – Kyoto Protocol, Bali Action Plan, Post 2015 Agreements – Tradable Permits and Carbon Taxes – Climate change Finance and Green Climate Fund. (20 Hours)
- UNIT III** : Pollution – Efficient Level of Pollution – Transboundary Pollution- Nature of Emissions - Abatement of Pollution - Market Based Instruments – Command and Control Methods - Carbon Taxes and Markets - Environmental Pollution in India – Recent Developments in Environmental Laws. (15 Hours)
- UNIT IV** : Natural Resources – Types - Tragedy of Commons – Ostrom’s Collective Action - Dynamics of Resources Harvesting - Growth Function of Renewable Resources - Theories of Optimal Use of Exhaustible and Renewable Resources – Hotelling’s Rule - Valuation of Non-Market Goods and Services (20 Hours)
- UNIT V** : Environmental Management Systems - Environmental Activism – Eco Feminism - Eco Warriors - Corporate Environmental Sustainability – Ecological Footprint – Carbon Footprint. (20Hours)

RECOMMENDED TEXTBOOKS:

1. Tom Tietenberg And Lynne Lewis Environmental And Natural Resource Economics 11th Edition, 2017
2. Barry C Field And Martha K. Field Environmental Economics: An Introduction McGraw –Hill Education, 2012

REFERENCE BOOKS:

1. Charles Koldstad Environmental Economics (2nd Edition), Oxford University Press 2012
2. Stern N “The Economics of Climate Change: The Stern Review.” Cambridge University Press, Cambridge, (2007)
3. Dr.S.Sankaran Environmental Economics Margham Publications 2012
4. Subhashini Muthukrishnan “Economics of Environment” Phi Learning Private Limited New Delhi 2010
5. Mark Maslin “Climate Change: A Very Short Introduction 3rd Edition Oxford University Press, 2014
6. Jonathan M.Harris and Brian Roach “Environmental and Natural Resource Economics: A Contemporary Approach 4th Edition Routledge, 2017.

JOURNALS:

1. Journal of Environmental Economics and Management
2. Environment and Development Economics

E-LEARNING RESOURCES:

1. www.globalpolicy.org/socecon/envronmt/indx-main.html
2. <https://www.un.org/en/climatechange/paris-agreement>
3. <https://www.unenvironment.org/>
4. <https://www.worldbank.org/en/news/feature/2011/09/22/environmental-management-india>
5. <https://www.downtoearth.org.in>

COURSE OUTCOMES:**On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Identify core concepts in understanding the nature of Environmental Problems.
CO 2	Discuss the reasons for Market Failure and Externalities.
CO 3	Review the types of Pollution and measures to solve it.
CO 4	Analyze issues involved in Natural Resource Economics.
CO 5	Understanding the Policy implementation and the role of various Stakeholders in protecting Environment.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	2	2	3	3
CO2	3	3	3	2	3	3
CO3	3	3	3	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	2	3	3	3
AVERAGE	3	3	2.6	2.6	3	3

KEY: STRONGLY CORRELATED-3 MODERATELY CORRELATED- 2
 WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word limit	Marks	Total	Special Instructions If Any
K 3	A-5/8x8 Marks	500	40	100	Question No.- Is Compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER IV

ADVANCED MANAGERIAL ECONOMICS

Total Hours: 60
Credits: 4

Course Code: 3P21/4C/AME//8P21/4C/AME
LTP: 3/1/0

COURSE OBJECTIVES:

1. To understand various economic models and inventory control.
2. To analyse the role played by Government in market economy.
3. To understand the process involved in the preparation and selection of projects
4. To acquire knowledge on the techniques of forecasting.
5. To analyse the risk involved in projects

COURSE OUTLINE:

- UNIT I** : Role of Managerial Economics in Business Decisions - Economic Models -Types of Models – Use of Case Study in Managerial Economics – Usefulness – Limitations. (15 Hours)
- UNIT II** : Inventory Management - Types of Inventory - Methods of Inventory Control – EOQ – ABC – VED Analysis. (10 Hours)
- UNIT III** : Role of Government in Market Economy – Economic Functions of Government in a Market Economy – Effect of Economic Concentration - MRTP Act 1969 - Competition Act 2002 - Role of MNCs in Global Environment. (15 Hours)
- UNIT IV** : Risk in Project Analysis – Selection of a Project – Finite Horizon Method -Certainty Equivalent Approach – Decision under Uncertainty - Expected Value Method - Decision Tree Approach. (10 Hours)
- UNIT V** : Forecasting - Economics and Business Forecasting - Methods of Economic Forecasting – Evaluating Forecasts (10Hours)

RECOMMENDED TEXTBOOKS

1. Metha.P.L., Managerial Economics – Analysis, Problems and. Cases, Sultan Chand & Sons, New Delhi, 2016
2. W Bruce Allen, Neil A.Doherty, Keith Weigelt & Edwin Masfield –Managerial Economics Theory, Applications and Cases,W.W.Norton Company, London, 8th Edition, 2012.

REFERENCE BOOKS

1. Keat Paul, Managerial Economics, 7th Edition, Pearson Education, 2017.
2. Vanita Agarwal, Managerial Economics, Pearson Education, 2013.
3. P.Gopalakrishnan , Purchasing and Material Management, McGraw Hill Education, 2017
4. Eugene F Brigham, Financial Management Theory and Practice, 2nd Hinsdale III – the Dryden Press, 2014.
5. Michael R Baye – Managerial Economics & Business Strategy – Mc. Graw Hill, USA, 8th Edition 2014.
6. Teman, D.R. and Stone Hill A.L., Multi National Business Finance, Pearson Prentice Hall, 2012.

JOURNALS:

1. The IUP Journal of Managerial Economics, IUP Publications
2. Asian Journal of Research in Business Economics and Management (AJRBEM)

E-LEARNING RESOURCES:

1. www.nic.edu/calt/olc
2. <https://ocw.mit.edu>
3. <https://libguides.humboldt.edu/openedu/econ>
4. <https://online.stmary.edu/mba/courses/managerial-economics>
5. www.gettingsmart.com

COURSE OUTCOMES:

On completion of the course the students will be able to:

CO Number	CO STATEMENT
CO 1	Explain the economic models and understand the concept of case studies.
CO 2	Assess the various methods of inventory control
CO 3	Discuss the role played by Government and MNCs in market economy.
CO 4	Analyse the risks involved in projects
CO 5	Identify Business forecasting techniques

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	2	3	2	3	3
CO2	3	1	2	1	2	3
CO3	3	3	3	1	3	3
CO4	3	2	3	2	2	3
CO5	2	2	3	3	2	3
AVERAGE	2.8	2	2.8	1.8	2.4	3

KEY: STRONGLY CORRELATED - 3 MODERATLY CORRELATED -2
WEAKLY CORRELATED-1 NO CORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5/8x8 Marks	500	40	100	Question No.- is compulsory
K4,K5	B-3/5x20 Marks	1200	60		

SEMESTER IV
PROJECT

Total Hours: 90

Course Code: 3P21/4C/PRO

Credits:4

COURSE OBJECTIVES:

1. To understand the significance of Empirical Research.
2. Submission of Project Report on any Economic or Social Economic Issue.

SEMESTER IV
EMPLOYABILITY SKILLS

Total Hours: 30

Course Code: 3P21/4S/EMS//8P21/4S/EMS

Credits: 2

LTP: 2/0/0

COURSE OBJECTIVES:

1. To enable the Students to understand the importance of Soft Skills.
2. To Prepare Students to develop their Employability Skills.

COURSE OUTLINE:

- UNIT I** : Importance of Soft Skills – Types of Skills - Employability Skills –
Communication Skills - Methods of Communication - Barriers to
Communication (10 Hours)
- UNIT II** : Career Planning - Developing Career Goals - Meaning of Bio data
Curriculum Vitae and Resume – Types of Resume - Dos and Don'ts in
Resume Preparation – Hard and Soft Skills in Resume – Interview
Preparation – Mock Interview (Practical only) (10 Hours)
- UNIT III** : Personal and Corporate Grooming - Work Place Etiquette (10 Hours)

RECOMMENDED TEXT BOOKS

1. Kitty Locker and Jo Mackiewicz and Jeanine Aune and Donna Kienzler Business and Administrative Communication 12th Edition Mcgraw -Hill Education, 2019
2. Bruce Tulgan Bridging the Soft Skills Gap: How to Teach the Missing Basics to Today's Young Talent Jossey-Bass, A Wiley Imprint, 2015.

REFERENCE BOOKS

1. Will Tyson Teaching and Learning Employability Skills in Career and Technical Education: Industry, Educator, and Student Perspectives Palgrave Studies in Urban Education, 2020.
2. Stella Cottrell Skills for Success: Personal Development and Employability Macmillan Study Skills, 2021.
3. Karen Holmes What Employers Want: The Employability Skills Handbook Kindle Edition 2017.
4. G. S.Hook Communication Skills Training Audible Audiobook – Unabridged, 2019.
5. Fredrick H.Wentz Soft Skills Training: A Workbook to Develop Skills for Employment, 2012

JOURNALS:

1. THE IUP JOURNAL OF SOFT SKILLS

E-LEARNING RESOURCES:

<https://employabilityskills.org/resources>
<https://www.findmyprofession.com>
<https://www.livecareer.com>
<https://www.resume.com>
<https://www.marketing91.com>
<https://theinterviewguys.com>
https://www.training.nih.gov/writing_your_resume
https://www.careers.govt.nz/resources/tools-and-activities/employability-skills/#cid_9531
<https://www.cvmaker.com>
<https://content.wisestep.com>

COURSE OUTCOMES:

On Completion of the Course the Student will be able to:

CO NUMBER	CO STATEMENT
CO 1	Acquire Basic Employability Skills and Communication Skills
CO 2	Have An Insight into Preparation Of Curriculum Vitae
CO 3	Enhance Personal Skills and Learn Work Etiquette

QUESTION PAPER PATTERN

Knowledge Level	Section	Word limit	Marks	Total	Special Instructions If Any
K 3, K4, K5	A-10/12 x 5 Marks	100	50	50	Question No.- is Compulsory

**SELF STUDY PAPER
POPULATION STUDIES**

COURSE CODE: 3P21/3SS/POS //8P21/3SS/POS

CREDITS: 2

COURSE OBJECTIVES:

- 1 To understand the structure of population and its trends
- 2 To enhance the knowledge of migration and urbanization pattern
- 3 To know the demographic data base and new population policy in India

COURSE OUTLINE:

- UNIT I** : Meaning and Scope of Demography - Components of Population Growth And their Inter - Dependence - Measures of Population Change Structure – Distribution and Sources of Population Data - Theories of Population – Malthus - Optimum Theory of Population - Theory of Demographic Transition – Views of Meadows - Enke and Simon - Population and Development.
- UNIT II** : Structure of Population - Population Trends – Population Explosion – Threatened or Real - Distant or Imminent - International aspects of Population Growth and Distribution - Pattern of Age and Sex Structure Determinants - Demographic Effects - Economic and Social Implications – Age Pyramids and Projections – Individual Aging and Population Aging.
- UNIT III** : Fertility - Nuptiality and Mortality - Importance of Study of Fertility – Total Fertility Rate - Gross Reproduction Rate and Net Reproduction Rate – Levels and Trends of Fertility in More and Less Developed Countries - Factor Affecting Fertility – Socio - Economic Factors - Trends in Age at Marriage – Mortality – Types - Levels and Trends in Developed and Less Developed Countries - Sex and Age Pattern - Factors for Decline Immortality - Life Table – Construction and Uses- Concepts of Stable Population –Methods of Population Projection.
- UNIT IV** : Migration and Urbanization - Concept and Types – Temporary, Internal and International - International Migration – Effect - Factors – Theories Growth and Distribution of Rural – Urban Population in Developed and Developing Countries.
- UNIT V** : Demographic Data Base in India - Study of Census in India – Methodology and Characteristics of Census - National Family Health Survey and Rapid Household Survey - Changing Characteristics of Population - Population Growth Rates - New Population Policy in India.

RECOMMENDED TEXTBOOKS:

1. Sarah Harper, Demography: A Very Short Introduction, Oxford Press, 2018.
2. Peter R. Cox, Demography- 5th Edition, Cambridge University Press, 2008.

REFERENCE BOOKS:

1. P.K Majumdar, 'India's Demography' changing Demographies Scenario in India, Rawat Publications, New Delhi, 2013
2. Choubey, P.K, Population Policy in India, Kanishka Publications, New Delhi, 2001.
3. M.L Jhingan, B.K. Bhatt, J.N.Desan Demography, Vrinda Publications, Delhi 2005.
4. Edward F Willoughby Handbook of Public Health & Demography Franklin Classics Publisher, 2018.
5. Siba Prasad Rath Demography of India –Challenges and Dynamics of India's Population & Census, Lambert Academia Publishing, 2013.
6. P.K Majumdar Fundamentals of Demography, Rawat Publications, New Delhi, 2010

JOURNALS:

1. International Journal of Science and Research – Studies in Demography
2. International Educational Applied Research Journal – Journal of Demography

E-LEARNING RESOURCES:

1. www.economicdiscussion.com
2. <https://ocw.mit.edu>
3. <https://academicearth.org/economics>
4. https://www.rand.org/monograph_reports/
5. www.kent.ac.uk/demography/