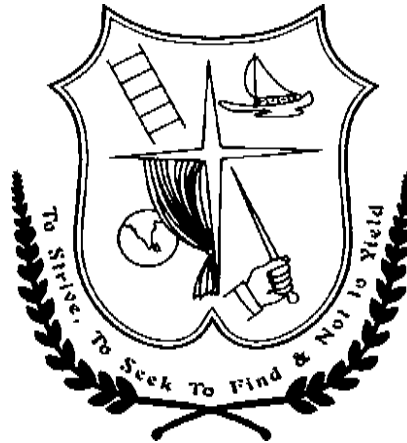


**ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS)
CHENNAI - 600 008**

POST GRADUATE & RESEARCH

DEPARTMENT OF ECONOMICS



M.A. BUSINESS 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. BUSINESS 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
CURRICULUM TEMPLATE (2021-22 ONWARDS)
POST GRADUATE PROGRAMME PROFILE
DEPARTMENT OF BUSINESS ECONOMICS
COURSE CODES AND CREDITS

TOTAL MINIMUM CREDITS: 91

TEACHING HOURS: 120

S. No	CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
I SEMESTER											
1	Core 1	Advanced Micro Economic Theory	8P21/1C/AME// 3P21/1C/AME	3	3	0	6	4	40	60	100
2	Core 2	Accounting and Auditing		3	3	0	6	4	40	60	100
3	Core 3	Mathematics for Economists	8P21/1C/MAE// 3P21/1C/MAE	3	3	0	6	4	40	60	100
4	Core 4	Statistical Methods for Economists	8P21/1C/SME// 3P21/1C/SME	3	3	0	6	4	40	60	100
5	Elective 1	Financial Economics Economics of Law	8P21/1E1/ FIE// 3P21/1E1/ FIE 8P21/1E1/ ECL// 3P21/1E1/ 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	Macro Economic Theory and Analysis	8P21/2C/MTA// 3P21/2C/MTA	3	2	0	5	4	40	60	100
8	Core 6	Management Accounting		3	2	0	5	4	40	60	100
9	Core 7	Econometric Methods	8P21/2C/ECM// 3P21/2C/ECM	3	2	0	5	4	40	60	100
10	Core 8	Statistics with Computer Applications	8P21/2C/SCA// 3P21/2C/SCA	2	2	1	5	4	40	60	100
11	Elective 2	Marketing Management	8P21/2E2/MAM	3	1	0	4	3	40	60	100
12	Extra Disciplinary Elective 1	Human Resource Management (Other Departments)	8P21/2E/ HRM	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	8P21/3C/IEP// 3P21/3C/IEP	3	3	0	6	4	40	60	100
16	Core 10	Monetary Economics	8P21/3C/MOE// 3P21/3C/MOE	3	2	0	5	4	40	60	100
17	Core 11	Research Methodology and Computer Applications in Economics	8P21/3C/RMC// 3P21/3C/RMC	2	2	1	5	4	40	60	100
18	Elective 3	Security Analysis and Portfolio Management	8P21/3E3/SAP	3	1	0	4	3	40	60	100
19	Elective 4	Economics of E- Commerce Project Management	8P21/3E4/ ECE 8P21/3E4/ PRM	3	1	0	4	3	40	60	100
20	Extra Disciplinary Elective 2	Public Relations (Other Departments)	8P21/3E/PUR	3	1	0	4	3	40	60	100
21	Soft Skill 3	Yoga and Meditation for Better Living	8P21/3S/YMB// 3P21/3S/YMB	1	0	1	2	2	-	50	50
IV SEMESTER											
22	Core 12	Economics of Growth and Development	8P21/4C/EGD// 3P21/4C/EGD	3	3	0	6	4	40	60	100
23	Core 13	International Economics and Global Business Environment	8P21/4C/IEG	3	3	0	6	4	40	60	100
24	Core 14	Environment and Resource Economics	8P21/4C/ERE// 3P21/4C/ERE	3	3	0	6	4	40	60	100
25	Core 15	Advanced Managerial Economics	8P21/4C/AME// 3P21/4C/AME	3	1	0	4	4	40	60	100
26	Project	Project	8P21/4C/PRO				6	3	40	60	100
27	Soft Skill 4	Employability Skills	8P21/4S/EMS// 3P21/4S/EMS	2	0	0	2	2	-	50	50
OPTIONAL EXTRA CREDITS											
I	Extra Credits (OPTIONAL)	Self-Study (Semester III) Population Studies	8P21/3SS/POS	-	-	-	-	2	-	100	100

L = Lecture Hours T = Tutorial Hours
C = Credits CA=Continuous Assessment
Marks

P=Practical Hours H = Hours per week
SE=Semester Examinations MM=Maximum

Extra Credits (Optional for Advanced Learners)

1. Self-Study Paper – Population Studies

8P21/3SS/POS//3P21/3SS/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 BUSINESS ECONOMICS

SEMESTER- I

CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
Core 1	Advanced Microeconomic Theory	8P21/1C/AME// 3P21/1C/AME	3	3	0	6	4	40	60	100
Core 2	Accounting and Auditing		3	3	0	6	4	40	60	100
Core 3	Mathematics for Economists	8P21/1C/MAE// 3P21/1C/MAE	3	3	0	6	4	40	60	100
Core 4	Statistical Methods for Economists	8P21/1C/SME// 3P21/1C/SME	3	3	0	6	4	40	60	100
Elective 1	Financial Economics Economics of Law	8P21/1E1/ FIE// 3P21/1E1/ FIE 8P21/1E1/ ECL// 3P21/1E1/ 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	8P21/2C/MTA// 3P21/2C/MTA	3	2	0	5	4	40	60	100
Core 6	Management Accounting		3	2	0	5	4	40	60	100
Core 7	Econometric Methods	8P21/2C/ECM// 3P21/2C/ECM	3	2	0	5	4	40	60	100
Core 8	Statistics with Computer Applications	8P21/2C/SCA// 3P21/2C/SCA	2	2	1	5	4	40	60	100
Elective 2	Marketing Management	8P21/2E2/MAM	3	1	0	4	3	40	60	100
Extra Disciplinary Elective 1	Human Resource Management (Other Departments)	8P21/2E/ HRM	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			

III SEMESTER

CORE/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
Core 9	Indian Economy: Problems and Policies	8P21/3C/IEP// 3P21/3C/IEP	3	3	0	6	4	40	60	100
Core 10	Monetary Economics	8P21/3C/MOE// 3P21/3C/MOE	3	2	0	5	4	40	60	100
Core 11	Research Methodology and Computer Applications in Economics	8P21/3C/RMC// 3P21/3C/RMC	2	2	1	5	4	40	60	100
Elective 3	Security Analysis and Portfolio Management	8P21/3E3/SAP	3	1	0	4	3	40	60	100
Elective 4	Economics of E- Commerce Project Management	8P21/3E4/ ECE 8P21/3E4/ PRM	3	1	0	4	3	40	60	100
Extra Disciplinary Elective 2	Public Relations (Other Departments)	8P21/3E/PUR	3	1	0	4	3	40	60	100
Soft Skill 3	Yoga and Meditation for Better Living	8P21/3S/YMB// 3P21/3S/YMB	1	0	1	2	2	-	50	50
	TOTAL					30	23			

IV SEMESTER

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

- 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
MATHEMATICS FOR ECONOMISTS

Total Hours: 90
Credits: 4

Course Code: 8P21/1C/MAE//3P21/1C/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: 8P21/1C/SME//3P21/1C/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: 8P21/1E1/FIE// 3P21/1E1/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: 8P21/1E1/ ECL//3P21/1E1/ 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 TEXT BOOKS:

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.iplayers.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: 8P21/2C/MTA// 3P21/2C/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:

1. South Asian Journal of Report
2. 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 ECONOMETRIC METHODS

Total Hours: 75
Credits: 4

Course Code: 8P21/2C/ECM//3P21/2C/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) (15 Hours)

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

MARKETING MANAGEMENT

Total Hours: 60
Credits: 3

Course Code: 8P21/2E2/MAM
LTP: 3/1/0

COURSE OBJECTIVES:

1. To enable students to understand the essentials of Marketing Management
2. To provide basic exposure to areas of marketing such as Market segmentation, and Pricing.
3. To study Consumer Behavior and sales promotion
4. To analyse Marketing promotion, mix and distribution channels.
5. To acquire knowledge on recent trends in marketing

COURSE OUTLINE:

- UNIT I** : Marketing – Importance – Types – Scope -Functions – Marketing Organization – Essentials – Principles – Types – Marketing Environment – Internal and External Marketing Interface – Market Segmentation – Need and Basis – Targeting and Positioning
(20 Hours)
- UNIT II** : Marketing Mix – Definition – Importance of Marketing Mix in Marketing Decisions- Marketing Mix and Marketing Environment Analysis – SWOT – PEST- Control Mechanism in Marketing- Product – Product Policy – Product Mix – Branding, Packaging and Labelling – Product lifecycle – New Product Development
(10 Hours)
- UNIT III** : Price – Pricing and its Determinants – Objectives of Pricing Decisions – Factors affecting Pricing Decisions – Pricing Policies and Strategies – Pricing Methods – Market Planning and Strategic Planning – Process – Market Information – Marketing Ethics
(10 Hours)
- UNIT IV** : Consumer Behavior – Factors – General Consumers – Industrial Consumers, Online Consumers–Promotional Mix – Advertisement – Sales Promotion – Public Relations – Publicity – Personal Selling – Direct Marketing – Retail Marketing–Export Marketing
(10 Hours)
- UNIT V** : Recent Trends in Marketing – Supply Chain Management – e – Commerce – e - Marketing – e – Retailing –Relationship Marketing Recent Concepts in Marketing – Green Marketing – Digital Marketing – Customer Relationships Management - Customer Acquisition – Retaining - Defection
(10 Hours)

RECOMMENDED TEXTBOOKS:

1. Phillip Kotler -Marketing Management – A South Asian Perspective, Asia Specific Holdings Pvt., Ltd., 2016.
2. M. Govindarajan –Marketing Management, PHI Learning Private Limited, 2007.

REFERENCE BOOKS:

1. Phillip Kotler, Kevin Marketing Management, Pearson Prentice Hall, 2016
2. R.S.N Pillai, Marketing Management, S. Chand & Co, 2010
3. Dr.Rajan Saxena, Marketing Management, Mc.Graw Hill Education, 2019.
4. Chernev Alexander, Strategic Marketing Management, Arch Way Publishing, 2018.
5. Dr.C.B.Gupta, Dr.N.Rajan Nair, Marketing Management, Sultan Chand & Sons, 13th Edition, 2010

JOURNALS:

1. Marketing Management Journal-Marketing Management Association
2. Journal of Marketing Management

E-LEARNING RESOURCES:

1. <https://elearningindustry.com>
2. <https://www.coursera.org>
3. <https://eclass.teicrete.gr>
4. <https://study.com/academy/course/principles-of-management-course.html>
5. <http://alison.com>

SEMESTER II
HUMAN RESOURCE MANAGEMENT

Total Hours: 60
Credits: 3

Course Code: 8P21/2E/HRM
LTP: 3/1/0

COURSE OBJECTIVES:

1. To make the students know about the human resource management and planning.
2. To provide an understanding on the recruitment process adopted by the companies.
3. To make students understand the methods of performance and potential appraisal.
4. To understand the theories of motivation.
5. To study the Current trend and issues in HRM.

COURSE OUTLINE:

- UNIT I** : Human Resource Management - Meaning – Objectives- Functions –Importance– Difference between HRM and Personnel Management - Role of HR Manager – Challenges of HR Manager During Pandemic Period – Current Trends and Issues in HRM. (10 Hours)
- UNIT II** : Human Resource Planning – Definition - Objectives - Process – Need and Importance - Recruitment – Sources – Techniques - Process – Selection- Steps- Testing – Interview – Types - Group Discussion – Competency Mapping. (10 Hours)
- UNIT III** : Placement - Induction – Training– Need- Importance – Objectives–Types–Techniques - Executive Development – Self Development – Knowledge Management (15Hours)
- UNIT IV** : Compensation Plan – Productivity – Linked Bonus – Compensation Criteria –Reward – Motivation - Theories of Motivation- International HRM. (10 Hours)
- UNIT V** : Performance Appraisal – Concept – Objectives – Uses – Steps – Methods of Performance Appraisal through MBO - 360° Appraisal – Promotion – Demotion - Transfer – Potential Appraisal – Effective Control Systems Grievances – Causes –Implications – Remedial Measures. (15 Hours)

RECOMMENDED TEXTBOOKS:

1. Gary Dessler, Biju Varrkey , Human Resource Management, Pearson Paperback December 2017.
2. S.S.Khanka -Human Resource Management, S. Chand & Co. Pvt Ltd, 2007.

REFERENCE BOOKS:

1. DeCenzo, D.A. and Robbins, S.P, Human Resource Management, 10th Edition, Wiley India Pvt Ltd., 2011.
2. Dessler, G., Human Resource Management, 12th Edition, Pearson, 2011.
3. Noe, R.A Hollenbeck, Gerhart and Wright, Fundamentals of Human Resource Management, 3rd Edition, McGraw-Hill Education Ltd., 2020.
4. K.Asathappa Human Resource Management, Tata MC Graw Hill 2017
5. Srinivas Kandula HRM in Practice, Prentice. Hall of India Pvt Ltd. 2016.

JOURNALS:

1. The International Journal of Human Resource Management
2. Journal of Human Resources Management and Labor Studies.

E-LEARNING RESOURCES:

1. <https://www.vskills.in>.
2. <https://www.efrontlearning.com>
3. <https://online-learning.harvard.edu>
4. <https://www.onlinecoursereport.com>
5. <https://www.distancelearningportal.com>

COURSE OUTCOMES:

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

CO NUMBER	CO STATEMENT
CO1	Explain the basic ideas of human resource management and current trends and issues in HRM
CO2	Estimate the importance of placement and selection.
CO3	Adapt the recruitment process adopted by Companies.
CO4	Formulate methods to motivate workforce and criteria for compensation.
CO5	Assess the performance of the workers using performance and potential appraisal.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	2	2	3	1	3
CO2	3	3	3	3	2	3
CO3	2	3	3	3	2	3
CO4	3	3	3	3	2	3
CO5	2	3	3	3	1	3
AVERAGE	2.5	2.8	2.8	3	1.5	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-5x8 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: 8P21/3C/IEP//3P21/3C/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: 8P21/3C/MOE//3P21/3C/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, Routeledge 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 Warrant 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

WEAKLY CORRELATED -1

MODERATLY 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
RESEARCH METHODOLOGY AND COMPUTER
APPLICATIONS IN ECONOMICS

Total Hours: 75
Credits: 4

Course Code: 8P21/3C/RMC//3P21/3C/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
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Total Hours: 60

Course Code: 8P21/3E3/SAP

Credits: 3

LTP: 3/1/0

COURSE OBJECTIVES:

1. To provide the students a comprehensive introduction to the areas of Security Analysis and Portfolio Management.
2. To equip students with advanced tools and techniques for making profitable investment decisions.
3. To learn applications of efficient market hypothesis.
4. To understand the Importance of the Capital Asset Pricing Model
5. To Review Market Theories and their implications

COURSE OUTLINE:

- UNIT I** : Investment – Meaning – Objectives - Speculation – Investment Avenues - Types of Investors – Investment Process – Stock Exchanges in India- BSE, OTCEI, NSE, ISE - Regulations of Stock Exchanges - Trading System of Stock Exchanges - Security Analysis – Meaning - Types of Securities.
(10 Hours)
- UNIT II** : Risk and Return – Computation – Meaning and Definition – Types of Risk: Systematic Risk- Unsystematic Risk -Minimising Risk Exposure– Risk measurement - Standard Deviation – Meaning of Beta –Computation and Interpretation – Use of Beta in estimating returns (Simple problems).
(15 Hours)
- UNIT III** : Efficient Market Hypothesis (EMH) – Random Walk Theory – Forms of EMH – EMH And Empirical Findings – Implication of EMH On Fundamental and Technical Analysis – Market Inefficiencies.
(10 Hours)
- UNIT IV** : Portfolio Analysis – Meaning – Reasons to hold Portfolio - Selection – Evaluation - Diversification Analysis – Markowitz’s Model – Assumptions – Specific Model – Risk and Return Optimization – Efficient Frontier – Efficient Portfolios – Leveraged Portfolios – Corner Portfolio–Sharpe’s Single Index Model-Portfolio Performance Index: Sharpe’s, Treynor’s –Jensens’s.
(15 Hours)
- UNIT V** : Capital Market Theory – CAPM –Overview and Assumptions – Capital Market Line (CML) – Security Market Line (SML) –Zero Beta Model- Evaluation of Securities – Present Validity of CAPM– Arbitrage Pricing Theory(APT)–Assumptions–Model– Equation – APT vs CAPM.
(10 Hours)

RECOMMENDED TEXTBOOKS:

1. Fischer & Jordan, Security Analysis and Portfolio Management, Prentice Hall India, 1991.
2. I. M. Pandey, Financial Management, Vikas Publishing House Pvt.Ltd,2016.

REFERENCE BOOKS

1. Steven C. Rollins, "Advanced Project PFM and the PMO", J. Ross Publishers USA 2003.
2. Dr.Ginger Levin John Wyzalek "PFM A Strategic Approach", CRC Press, USA 2015.
3. French, Don, Security and Portfolio Analysis, MerrillPublishingCo,1989.
4. David F Swensen, "Roineering PFM", Free Press, New York, London 2009.
5. C. Thomas Howard, " Behavioral Portfolio Management", Harriman House Ltd., 1E, 2014.
6. S. Kevin, "Security Analysis and Portfolio Management", Prentice Hall India Learning Pvt., Ltd., 2015.

JOURNALS:

- 1 International Journal of Portfolio Analysis and Management.
- 2 The Financial Analysts Journal and Investment Management.

E-LEARNING SOURCES:

1. <https://www.managementstudyguide.com/security-analysis-and-portfolio-management.htm>
2. <https://www.businessmanagementideas.com/portfolio-management/portfolio-management-and-risk-return-analysis-company-management/14505>
3. <https://corporatefinanceinstitute.com/resources/knowledge/trading-investing/efficient-markets-hypothesis/>
4. https://en.wikipedia.org/wiki/Markowitz_model
5. <https://www.investopedia.com/terms/c/capm.asp>

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

CO Number	CO STATEMENT
CO 1	Understand the Introduction to Security Analysis and Portfolio Management.
CO 2	Get an insight into risk measurement and various models on risk
CO 3	Applications of EMH in Portfolio Management.
CO 4	Review Market Theories and their implications
CO 5	Discuss the Importance of the Capital Asset Pricing Model

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	2	2
CO2	2	3	2	2	3	3
CO3	2	2	3	2	3	3
CO4	3	3	3	3	2	3
CO5	2	3	2	2	3	3
AVERAGE	2.4	2.8	2.4	2.4	2.6	2.8

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-5x8 Marks	500	40	100	Question No.- is compulsory
K4, K5	B-3/5x20 Marks	1200	60		

SEMESTER III
ECONOMICS OF E-COMMERCE

Total Hours: 60
Credits: 3

Course Code: 8P21/3E4/ECE
LTP: 3/1/0

COURSE OBJECTIVES:

1. To gain knowledge on the emerging trends in e commerce
2. To identify the relevance of e commerce in a cashless economy.
3. To acquire knowledge on purchase patterns of customers.
4. To review the availability of options in digital payments
5. To assess the problems associated with digital crimes and threats in e commerce

COURSE OUTLINE:

- UNIT I** : E-commerce – Introduction- Evolution– Framework- Advantages – Essentials of Driving forces of E-commerce - Impact of Internet on Business Performance – Growth of E-Commerce in India – Application in Various Industries- Mobile Commerce - Growth – Applications.
(10 Hours)
- UNIT II** : E-commerce Models - Business-to-Business (B2B) – Business– to-Consumer (B2C) - Consumer-to-Consumer (C2C) - Consumer-to-Business (C2B) - Direct to Customer (D2C) – Peer-to-Peer (P2P) - Business to Government – Intra organizational E-commerce.
(15 Hours)
- UNIT III** : E-Marketing Mix- E-Advertising Techniques: Banners, Sponsorships, Portals, and Online Coupons- Role of Influencers in Social Media Marketing- Porters Value Chain Model- E Commerce and Consumers –Consumer Protection (E Commerce) Rules 2020. (15 Hours)
- UNIT IV** : E- Tailing – Features - Benefits - Retailing Websites - Online Shopping- Classification of Buyers - Shopping Cart – Mercantile Process Model – Smart Cards -Process Involved in Buying a Product - Electronic Contracts - E Customer Relationship Management.
(10 Hours)
- UNIT V** : Digital Payments- Payment Gateways – Various Online Payment Systems-Debit Card - Credit Card-UPI Apps- Types of Mobile Payments - Electronic Purse- Threats and Risks-Digital – Cyber Crimes-Online Frauds - Security Threats in India -E Security Protection – Legal Issues-The Information Technology Act 2000
(10 Hours)

RECOMMENDED TEXTBOOKS

1. Ravi Kalakota Frontiers of Electronic Commerce Addison Wesley, 2002.
2. Henry Chan E-Commerce, Fundamentals and Applications Wiley India Pvt.Ltd. 2011

REFERENCE BOOKS

1. Kenneth C. Laudon E-Commerce Global Edition, New York University 2019.
2. Nir Vulkan "The Economics of E-Commerce: A Strategic Guide to Understanding and Designing the Online Marketplace" Princeton University Press, 2003.
3. Dave Chaffy E-Business and E-Commerce Management: Strategy, Implementation and Practice, Pearson Press 2011.
4. Kalyani E-Commerce Opportunities and Challenges for B.Com, 2nd Sem., (P.U.) by Suman Dhull Edition 2021
5. Janice Reynolds, The Complete E-Commerce Book: Design, Build & Maintain a Successful Web-based Business Paperback, 2004.
6. E-Commerce Business Model 2020, Jim Work George Brand, Kindle Publications, 2020.

JOURNALS

1. Journal of Marketing
2. Journal of Marketing Research
3. Journal of Operations Management

E-LEARNING RESOURCES:

1. <https://jilt.com/blog/ecommerce-education-resources/>
2. <https://www.bigcommerce.com/resources/>
3. <https://consulterce.com/best-ecommerce-books/>
4. <https://consulterce.com/best-ecommerce-books/>
5. <https://consulterce.com/best-ecommerce-books/>

COURSE OUTCOME

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

CO Number	CO STATEMENT
CO 1	Identify the concepts in e commerce
CO 2	Discuss the various business models
CO 3	Analyze the options available to the customer in Purchase of a product
CO 4	Awareness on the digital payment options available
CO 5	Assess the problems associated with digital crimes and threats in e commerce

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	3	3	3	2	3	2
CO3	3	3	3	2	3	2
CO4	2	3	3	2	3	2
CO5	3	3	3	2	3	3
AVERAGE	2.8	3	2.8	2	3	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 III

PROJECT MANAGEMENT

Total Hours: 60
Credits: 3

Course Code:8P21/3E4/PRM
LTP: 3/1/0

COURSE OBJECTIVES:

1. To understand the concepts and scope of Project Management
2. To know the stages of project formulations
3. To describe the project designs.
4. To identify the types of project appraisal
5. To analyse the Project Control Techniques.

COURSE OUTLINE

- UNIT I** : Project Management - Meaning – Nature and Scope of Project Management – Concepts - Types of Project Management - Project Life Cycle – Role of Project Manager - Project Management as a Profession. (15 Hours)
- UNIT II** : Project Environment - Project Identification and Formation – Projects Screening–Stages in Project Formulation – Project Report - Preparation –Guidelines for Project Formulation. (15 Hours)
- UNIT III** : Project Planning and Scheduling - Objectives – Process of Good Planning – Project Designing – Release of Funds. (10 Hours)
- UNIT IV** : Project Appraisal – objectives – Project Methodology – Market and Technical Appraisal – Financial Appraisal – Socio – Economic Appraisal – Management (10 Hours)
- UNIT V** : Project Administration and Execution – Project Communication – Project Co- ordination – Factors Influencing Effective Project Management –. Techniques – PERT – CPM– Project Evaluation – Auditing and Termination. (10 Hours)

RECOMMENDED TEXTBOOKS:

1. Bhavesh .M Patel, Project Management, Vikas Publishing House PVT Ltd, 2010.
2. R. Panneerselvam and P. Senthilkumar, Project Management PHI Learning India PVT Ltd, 2009.
3. PK. Joy Total Project Management Mac Millan India Ltd, 1994.
4. S. Choudhury, Project Management, Tata Mcgraw Hill Company, 2008.

REFERENCE BOOKS

1. D.F. Gray and Erik .W Carson, Project Management, Tata Mcgraw Hill Company, 2007.
2. Choudhry S, Project Management, McGraw Hill Education, 2017.
3. Prasanna Chandra, Projects, Planning, Analysis, Selection Financing, Implementation and Review, Tata Mcgraw Hill Company, 2019.
4. Dennis Lock, Project Management Hand Book Gower Publishing Limited Ninth Edition, 2007.

E-LEARNING RESOURCES:

1. <https://www.projectmanager.com>
2. <https://www.projectmanagement.com>
3. <https://www.mindtools.com>
4. <https://www.usability.gov.com>
5. <https://www.googleadservices.com>

COURSE OUTCOME

On Completion of the course the students will be able to

CO NUMBER	CO STATEMENT
CO1	Understand the concepts of Project Management
CO2	Discuss the stages of Project Formulation.
CO3	Understand the Project Design.
CO4	List out the types of Project Appraisal.
CO5	Suggest Project Control Techniques.

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 MODERATLY CORRELATED-2
 WEAKLY CORRELATED-1 NOCORRELATION-0

QUESTION PAPER PATTERN

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

SEMESTER III

PUBLIC RELATIONS

Total Hours: 60
Credits: 3

Course Code:8P21/3E/PUR
LTP:3/1/0

COURSE OBJECTIVES:

- 1 To understand the meaning of public relations and related concepts
- 2 To know the art of developing goodwill with the public at large
- 3 To identify the tools used to promote public relations
- 4 To know the importance of corporate communication
- 5 To update with new media and technologies and formulate new strategies.

COURSE OUTLINE:

- UNIT I** : Definition – Nature – Process – Origin and Growth of Public relations in India - Distinction between Public Relations and Related Concepts – Publicity - Advertising - Press Agency – Propaganda and Sales Promotion. (10 Hours)
- UNIT II** : Corporate Communication – Definition – Importance – Internal and External Communication - Process and Evaluation of Internal and External Communication - Crisis Communication- International Public Relations- Corporate Social Responsibility (15 Hours)
- UNIT III** : Methods of Public Relations – Press – Printed Word – Photography – Exhibition and Trade Fairs – Film – Radio and Television – Public Speaking. (15 Hours)
- UNIT IV** : Role of Research in Public Relations – Definition – Purpose – Formal and Informal Methods – Steps in the Survey Research Project -Strategy Planning – Objectives – Process – Ethics in Public Relations (10 Hours)
- UNIT V** : New Media and Technologies in Public Relations - Digital Media – Blogging – Blogs - Importance – Different Platforms for Blogging, - Creating Blogs on Blogger - Word Press - Promoting Blog - Writing User Oriented Post Community Blogging and its Advantages - Social Media– Different Social Networks - Usage for Client Benefits – Twitter – Instagram –Facebook– LinkedIn– Orkut – Youtube - Flickr (10 Hours)

RECOMMENDED TEXTBOOKS:

1. Cutlip Scott M, and Broom Effective Public Relations Pearson(2012).
2. Dennis L Wilcox, Public Relations Strategies and Tactics, Pearson Education,2013

REFERENCE BOOKS:

1. Jaishri Jethwaney &N.N.Sarkar , Public Relations Management , Sterling Publishers, 2015.
2. C.V.Narasimha Reddi, 'Effective Public Relations and Media Strategy', PH 1 LearningPvt.Ltd, 2019
3. Tomojit Bhattacharjee, 'New Media in Public Relations-The Evolving Scenario in India, Notion Press, 2020
4. V.J.Vilanilam 'Public Relations in India: New Tasks and Responsibilities', Sage Publications India Pvt Ltd 2011
5. IqbalSachdeva. Public Relations: Principles and Practices, Oxford University Press, 2012

JOURNALS:

1. The Journal of Public Relations Research(JPRR)
2. International Journal of Communication and Public Relations.

WEBSITES AND E-LEARNING RESOURCES:

1. <https://www.pracademy.co.uk>
2. https://corporatetrainingmaterials.com/course/Media_And_Public_Relations
3. <https://www.x-cell.com/suchen-en?q=public+relations>
4. www.primix.co.uk/internationalprsystem
5. www.smartinsights.com

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

CO Number	CO STATEMENT
CO 1	State the meaning of public relations and related concepts
CO 2	Realize the importance of corporate communication
CO 3	Analyse the different methods of public relations.
CO 4	Identify the importance of research in public relations and strategy Planning
CO 5	Update with new media and technologies and formulate new strategies.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

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

KEY: STRONGLY CORRELATED-3

MODERATELYCORRELATED-2

WEAKLYCORRELATED-1

NOCORRELATION-0

QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 3	A-5x8 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: 8P21/3S/YMB//3P21/3S/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 Kinetics 2011

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 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,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: 8P21/4C/EGD//3P21/4C/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 AND GLOBAL BUSINESS ENVIRONMENT

Total Hours: 90
Credits: 4

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

COURSE OBJECTIVES:

1. To analyse the Theories of International trade.
2. To acquire knowledge on terms of trade and gains from trade
3. To review exchange control, FDI and FII's
4. To analyse the Global Business Environment.
5. To understand the relationship between Foreign Direct Investment, Multinational Enterprises and economic growth

COURSE OUTLINE:

- UNIT I** : Theories of International Trade – Samuelson's Factor – Price Equalisation 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 Small Country and Large Country- Gains from Trade– Potential Gain and Actual Gain - Gains from Trade in The Case of Large and Small Country – Preferential Trade Areas –TRIPS –TRIMS –TPRM-Neo Protectionism Global Economic Instability (Pre and Post Pandemic Period) E Curve Digital Trade – Trends. (20 Hours)
- UNIT III** : Exchange Control – Features – Objectives - Methods –Determination of Exchange Rate – 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-Foreign Banks in India – Foreign Institutional Investment - Impact of Foreign Capital on India's Economic Development. (20 Hours)
- UNIT V** : International Business Environment – Contract Manufacturing, Outsourcing and Global Value Chain – Strategic Alliances and Joint Ventures – Dumping – PESTLE (Country Risk Analysis) Trading Blocs – Oligopoly and International Trade - India's Current Foreign Trade Policy – Indo- China Trade War – Impact. (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.
4. M.L. Jhingan International Economics. M.L. Vrindha Publications, 2016
5. Debra Johnson and Colin Tuner, International Business: Themes and Issues in the Mordern Global Economy, Roulledge

REFERENCE BOOKS:

1. Charles. P Kindleberger – International Economics. Macmillan Press Ltd London, 1999.
2. Paul Krugman, Maurice Obstfield and MarcMelitz, Addison- Wesley International Economics Theory and Policy, Pearson Education Indian Edition, 2014.
3. Robert Carbaugh- International Economics- Cengage Learning, 2016.
4. Alan M Rungman , Simon Collinson , Richard M Hodgetts , International Business , PrenticeHall.
5. Donald A Ball and Wendell H Mc. Collouch, International Business: The challenge of Global Competition, McGraw Hill.
6. Justin Paul, International Business, Prentice Hall

JOURNALS:

1. Journal of International Economics ScienceDirect.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 terms of trade, gains from trade and digital trade.
CO 3	Explain the determination of exchange rate, theories and exchange rate policy.
CO 4	Appraise the relationship between foreign direct investment, multinational enterprises and economic growth.
CO 5	Explore global business environment.

MAPPING-COURSE OUTCOMES WITH PROGRAMME SPECIFIC OUTCOMES

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	2	2	2	2
CO2	2	3	3	2	2	2
CO3	3	3	3	3	3	2
CO4	3	3	3	3	3	2
CO5	3	3	3	3	3	2
AVERAGE	2.8	3	2.8	2.6	2.6	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: 8P21/4C/ERE//3P21/4C/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/soecon/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
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 IV
ADVANCED MANAGERIAL ECONOMICS

Total Hours : 60
Credits: 4

Course Code: 8P21/4C/AME//3P21/4C/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: 8P21/4C/PRO

Credits:4

COURSE OBJECTIVES:

1. To understand the significance of Empirical Research.
2. Submission of Project Report on any Business Economic Issues.

SEMESTER IV

EMPLOYABILITY SKILLS

Total Hours: 30

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

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:

The IUP Journal of Soft Skills

E-LEARNING RESOURCES:

1. <https://employabilityskills.org/resources>
2. <https://www.findmyprofession.com>
3. <https://www.livecareer.com>
4. <https://www.resume.com>
5. <https://www.marketing91.com>
6. <https://theinterviewguys.com>
7. https://www.training.nih.gov/writing_your_resume
8. https://www.careers.govt.nz/resources/tools-and-activities/employability-skills/#cid_9531
9. <https://www.cvmaker.com>
10. <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**

CREDITS: 2

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

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/