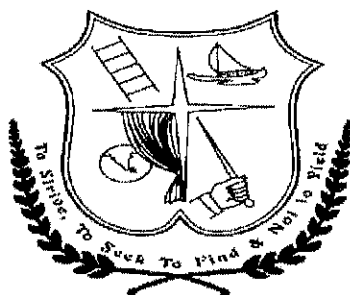


**ETHIRAJ COLLEGE FOR WOMEN**

**(AUTONOMOUS)**

**Chennai - 600 008**



**POST GRADUATE & RESEARCH**

**DEPARTMENT OF ECONOMICS**

**M. A. ECONOMICS**

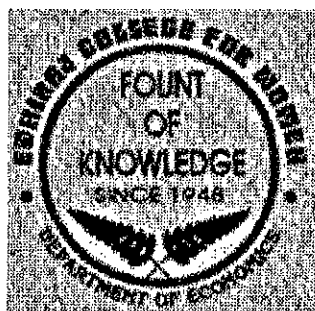
**&**

**M. A. BUSINESS ECONOMICS**

**Syllabus**

**Choice Based Credit System**

*(Offered from the Academic Year 2018-2019)*



**M. A. ECONOMICS**

**SYLLABUS**

**CHOICE BASED CREDIT SYSTEM**

***(OFFERED FROM THE ACADEMIC YEAR 2018-2019)***

**DEPARTMENT OF ECONOMICS**  
**REVISED SYLLABUS OF JUNE 2018**

Department of Economics is revising syllabi with effect from the academic year 2018-2019 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**

**1. 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.

## **2. 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.

## **3. COURSE OF STUDY:**

The main subject of study for Masters Degree shall consist of the following:

CORE COURSES

ELECTIVES

SOFT SKILLS

INTERNSHIP

## **4. 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% of the marks prescribed for the examination.

## **5. 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.

## 6. COURSE PROFILE:

SEM	COURSE CODE	TITLE OF THE PAPER	CREDITS	MARKS		
				CA	SE	T
I	3P18/1C/AMT// 8P18/1C/AMT	Advanced Micro Economic Theory	4	40	60	100
	3P18/1C/PUE	Public Economics	4	40	60	100
	3P18/1C/MFE// 8P18/1C/MFE	Mathematics for Economists	4	40	60	100
	3P18/1C/SFE// 8P18/1C/SFE	Statistical Methods for Economists	4	40	60	100
	3P18/1E1/ FNE// 8P18/1E1/ FNE	Financial Economics	3	40	60	100
	Soft Skill	Personality Enrichment for Women	2		50	50
II	3P18/2C/MEA// 8P18/2C/MEA	Macro Economic Theory and Analysis	4	40	60	100
	3P18/2C/HES	Health Economics	4	40	60	100
	3P18/2C/ECM// 8P18/2C/ECM	Econometric Methods	4	40	60	100
	3P18/2C/SCA// 8P18/2C/SCA	Statistics with Computer Applications	4	40	60	100
	3P18/2E2/MGE// 8P18/2E2/MGE	Managerial Economics	3	40	60	100
	3P18/2E/ HCM	Health Care Management	3	40	60	100
	Soft Skill	Interpersonal Communication	2		50	50
III	3P18/3C/IEY// 8P18/3C/IEY	Indian Economy	4	40	60	100
	3P18/3C/MOE// 8P18/3C/MOE	Monetary Economics	4	40	60	100
	3P18/3C/RMC// 8P18/3C/RMC	Research Methodology and Computer Applications in Economics	4	40	60	100
	3P18/3E3/ECS	Economics of Social Issues	3	40	60	100
	3P18/3E4/ EIS	Economics of Infrastructure	3	40	60	100
	3P18/3E/HAD	Hospital Administration	3	40	60	100
	3P18/3S/YML// 8P18/3S/YML	Yoga and Meditation for Better Living	2		50	50
IV	3P18/4C/EGD// 8P18/4C/EGD	Economics of Growth and Development	4	40	60	100
	3P18/4C/INE// 8P18/4C/INE	International Economics	4	40	60	100
	3P18/4C/ENE// 8P18/4C/ENE	Environmental Economics	4	40	60	100
	3P18/4C/PRJ	Project	4	40	60	100
	3P18/4E5/DEY	Demography	3	40	60	100
	3P18/4S/EMS// 8P18/4S/EMS	Employability Skills	2		50	50
		<b>Internship</b>	2			
	<b>Total</b>	91				

## 7. TEMPLATE FOR EVALUATION:

### CONTINUOUS ASSESSMENT

S.No	Course Code	Course Title	Continuous Assessment				
			Test I	Test II	Quiz/Assignment / Seminar	Participatory Learning	Total
<b>SEMESTER I</b>							
1.	3P18/1C/AMT// 8P18/1C/AMT	Advanced Micro Economic Theory	10	10	10	10	40
2.	3P18/1C/PUE	Public Economics	10	10	10	10	40
3.	3P18/1C/MFE// 8P18/1C/MFE	Mathematics for Economists	10	10	10	10	40
4.	3P18/1C/SFE// 8P18/1C/SFE	Statistical Methods for Economists	10	10	10	10	40
5.	3P18/1E1/ FNE// 8P18/1E1/ FNE	Financial Economics	10	10	10	10	40
<b>SEMESTER II</b>							
1.	3P18/2C/MEA// 8P18/2C/MEA	Macro Economic Theory and Analysis	10	10	10	10	40
2.	3P18/2C/HES	Health Economics	10	10	10	10	40
3.	3P18/2C/ECM// 8P18/2C/ECM	Econometric Methods	10	10	10	10	40
4.	3P18/2C/SCA// 8P18/2C/SCA	Statistics with Computer Applications	10	10	10	10	40
5.	3P18/2E2/MGE// 8P18/2E2/MGE	Managerial Economics					
6.	3P18/2E/ HCM	Health Care Management	10	10	10	10	40

### SEMESTER III

1.	3P18/3C/IEY// 8P18/3C/IEY	Indian Economy	10	10	10	10	40
2.	3P18/3C/MOE// 8P18/3C/MOE	Monetary Economics	10	10	10	10	40
3.	3P18/3C/RMC// 8P18/3C/RMC	Research Methodology and Computer Applications in Economics	10	10	10	10	40
4.	3P18/3E3/ECS	Economics of Social Issues	10	10	10	10	40
5.	3P18/3E4/ EIS	Economics of Infrastructure	10	10	10	10	40
6.	3P18/3E/HAD	Hospital Administration	10	10	10	10	40

#### SEMESTER IV

1	3P18/4C/EGD// 8P18/4C/EGD	Economics of Growth and Development	10	10	10	10	40
2	3P18/4C/INE// 8P18/4C/INE	International Economics	10	10	10	10	40
3	3P18/4C/ENE// 8P18/4C/ENE	Environmental Economics	10	10	10	10	40
4	3P18/4C/PRJ	Project	10	10	10	10	40
5	3P18/4E5/DEY// 8P18/4E5/DEY	Demography	10	10	10	10	40

#### 8. PATTERN FOR CONTINUOUS ASSESSMENT:

Test I	2 hrs	50 Marks	CA 10 Marks (converted)
Test II	2 hrs	50 Marks	10 Marks (converted)
Quiz/ Assignment/ Seminar/ Field Visits			10 Marks
Participatory Learning			10 Marks
Total			40 Marks

#### 9. RUBRICS FOR CONTINUOUS ASSESSMENT EVALUATION:

<b>Assignment</b>	Contents/ Originality/ Presentation/ Schematic Representation and Diagram/ Bibliography
<b>Seminar</b>	Organization/ Subject Knowledge/ Visual Aids/ Confidence Level/ Presentation
<b>Participatory</b>	Answering Questions/ Clearing Doubts/ Participation in Discussion/ Attendance/ Communication and Language
<b>Problem Solving</b>	Understanding Concept/ Formula and Variable Identification/ Logical Sequence/ Answer
<b>Field Trip</b>	Participation/ Preparation/ Attitude/ Leadership
<b>Case Study</b>	Finding the Problem/ Analysis/ Solution/ Justification
<b>Project</b>	Preliminary Work/ Design/ Content/ Presentation

**M.A ECONOMICS  
SEMESTER I**

Core	Code	Title	Hours	Credits	CA	Sem	Total
Core: 1	3P18/1C/AMT// 8P18/1C/AMT	Advanced Micro Economic Theory (Common)	6	4	40	60	100
Core: 2	3P18/1C/PUE	Public Economics	6	4	40	60	100
Core: 3	3P18/1C/MFE// 8P18/1C/MFE	Mathematics for Economists (Common)	6	4	40	60	100
Core: 4	3P18/1C/SFE// 8P18/1C/SFE	Statistical Methods for Economists (Common)	6	4	40	60	100
Major Elective: 1	3P18/1E1/ FNE// 8P18/1E1/ FNE	Financial Economics (Common)	4	3	40	60	100
Soft Skills		Personality Enrichment for Women	2	2			
	Total		30	21			

**SEMESTER II**

Core: 5	3P18/2C/MEA// 8P18/2C/MEA	Macro Economic Theory and Analysis (Common)	5	4	40	60	100
Core: 6	3P18/2C/HES	Health Economics	5	4	40	60	100
Core: 7	3P18/2C/ECM// 8P18/2C/ECM	Econometric Methods (Common)	5	4	40	60	100
Core: 8	3P18/2C/SCA// 8P18/2C/SCA	Statistics with Computer Applications (Common)	5	4	40	60	100
Major Elective:2	3P18/2E2/MGE// 8P18/2E2/MGE	Managerial Economics (Common)	4	3	40	60	100
Extra Disciplinary Elective	3P18/2E/ HCM	Health Care Management	4	3	40	60	100
Soft Skills		Interpersonal Communication	2	2			100
	Total		30	24			



### SEMESTER III

Core	Course Code	Course Title	Hours	Credits	CA	Sem	Total
Core: 9	3P18/3C/IEY// 8P18/3C/IEY	Indian Economy (Common)	6	4	40	60	100
Core: 10	3P18/3C/MOE// 8P18/3C/MOE	Monetary Economics (Common)	5	4	40	60	100
Core: 11	3P18/3C/RMC// 8P18/3C/RMC	Research Methodology and Computer Applications in Economics (Common)	5	4	40	60	100
Elective 3	3P18/3E3/ECS	Economics of Social Issues	4	3	40	60	100
Elective 4	3P18/3E4/ EIS	Economics of Infrastructure	4	3	40	60	100
Extra Disciplinary	3P18/3E/HAD	Hospital Administration	4	3	40	60	100
Soft Skill	3P18/3S/YML// 8P18/3S/YML	Yoga and Meditation for better living (Common)	2	2			
	Total		30	23			

### SEMESTER IV

Core	Course Code	Course Title	Hours	Credits	CA	Sem	Total
Core: 12	3P18/4C/EGD// 8P18/4C/EGD	Economics of Growth and Development (Common)	6	4	40	60	100
Core: 13	3P18/4C/INE// 8P18/4C/INE	International Economics (Common)	6	4	40	60	100
Core: 14	3P18/4C/ENE// 8P18/4C/ENE	Environmental Economics (Common)	6	4	40	60	100
Core: 15	3P18/4C/PRJ	Project	6	4	40	60	100
Elective:5	3P18/4E5/DEY	Demography	4	3	40	60	100
Soft Skill	3P18/4S/EMS// 8P18/4S/EMS	Employability Skills (Common)	2	2			
	Total		30	21			

## SEMESTER – I

### ADVANCED MICRO ECONOMIC THEORY

Teaching Hours : 90

Credits : 4

Course Code : 3P18/1C/AMT//8P18/1C/AMT

LTP: 3/ 3/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable the students to understand the Advanced Theories of Consumer Behavior.
- To make the students understand the various Market Structure Models.
- To understand the non-conventional objectives of the firm.

#### COURSE OUTLINE:

**UNIT I:** Theory of Market Demand-A Pragmatic Approach to Demand Analysis – Constant - Elasticity of Demand Model – Distributed Lag Models -Linear Expenditure System - Indirect Utility and Expenditure Function– Roy’s Identity – Shepherd’s Lemma – Slutsky’s Equation. (20 hrs)

**UNIT II:** Oligopoly - Non-Collusive Oligopoly – Cournot’s Duopoly Model- Chamberlin’s Oligopoly Model- Paul. M Sweezy’s Model- Stackelberg’s Model - Collusive Oligopoly – Cartels - Price leadership. (20 hrs)

**UNIT III:** Behavioural Models - Baumol’s Sales Maximization Theory - Cyert and March Model - Marris Growth Model- Williamson Model-Limit Pricing. (15hrs)

**UNIT IV:** General Equilibrium –Walrasian System - 2 x 2 x 2 Model - Pareto Optimality Conditions – Tatonnement and Non-Tatonnement process – Social Welfare Function - Arrows Impossibility Theorem – Second Best Theory. (20 hrs)

**UNIT V:** Choice under Uncertainty — Neumann Morgenstern Index - Friedman-Savage Hypothesis- Markowitz Hypothesis- Hicks Logical Ordering. (15 hrs)

**BOOKS FOR REFERENCE:**

1. Baumol W J Economic Theory and Operations Analysis; Prentice Hall of India , New Delhi April 2018 (New Edition).
2. E.RoyWeintraub, General Equilibrium Theory, Macmillan London 1974.
3. George Joseph Stigler, Theory of Price, Prentice Hall of India, New Delhi 1996.
4. Hal R. Varian; Micro Economic Analysis , Affiliated East West Press, 2006.
5. Koutsoyannis; Modern Micro Economics, ELBS, Macmillan press,London 2013.

**WEBSITES AND e-LEARNING SOURCES:**

1. [elearning.ec.unipi.gr](http://elearning.ec.unipi.gr)>elearning
2. <http://www.coursera.org/learn/economics>
3. <https://academicearth.org/economics>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions / Problems Application / Analysis / Synthesis / Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – I

### PUBLIC ECONOMICS

Teaching Hours : 90

Credits: 4

Course Code : 3P18/1C/PUE

LTP : 3/ 3/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To understand the theoretical analysis of Public Finance.
- To study the policy framework of Public Finance.
- To study the significance of government taxation and expenditure.

#### COURSE OUTLINE:

**UNIT I:** Public Finance –Meaning and Scope - Importance - Role of Public Finance in Developing Countries - Functions of the State and Role of Public Sector in the Economy. (15 hrs)

**UNIT II:** The Theory of Public and Private Goods – Efficiency of Public Goods – Private preference for Public goods –Voluntary Exchange Theory –Samuelson Theory-Externalities –Negative Externalities –Positive Externalities and Inefficiency- Lindahl Model. (15 hrs)

**UNIT III:** Public Expenditure – Canons of Public Expenditure – Reasons for the Growth of Public Expenditure -Wagner’s views on Public Expenditure –Peacock – Wiseman Hypothesis –Samuelson and Musgrave Approach –Colin Clark Hypothesis - Public Debt –Meaning – Causes –Classification - Sources - Burden – Kinds of Burden - Measurement of Debt Burden –Redemption of Public Debt. (20 hrs)

**UNIT IV:** Federal Finance –Allocation of Revenue -Resources between Centre and States –Central Resources - State List –Finance Commission –Functions – Major Recommendations of 13<sup>th</sup> and 14<sup>th</sup> Finance Commission - Local Finance –Meaning and Importance –Sources of Revenue for Local Governments –Role of Panchayat Raj – Gramsabha –Municipalities and Municipal Corporations (20 hrs)

**UNIT V:** Allocation of Resources – Opportunity Cost and Allocation - Efficient Allocation of Resources – Optimum Budget - Budget in India –Process – Procedure –Purpose and Principles of Budget –Types – Revenue and Capital Budget -Performance Budgeting –Principles of Budget - Green Budgeting-Gender Budgeting - Taxation – Sources of Revenue – Kinds –Direct Tax – Merits and Demerits –Income Tax – Proportional- Progressive –Regressive – Degressive Tax –Double Taxation – GST – GST Council – GST Reviews. (20 hrs)

**BOOKS FOR REFERENCE:**

1. Lectures on Public Economics, Atkinson, A.B and J.E.Siglitz, Tata McGraw Hill, New York (1980).
2. Public Finance and Public Choice, John Cullis and Philip Jones, Oxford University Press 1st Edition, 1998.
3. Public Finance in Theory and Practice, R.A.Musgrave and P.B.Musgrave, McGraw Hill Publications, 5<sup>th</sup>Edition ,1989.
4. Public Finance, B.P.Tyagi Revised by Dr.H.P.Singh, Jai Prakash Nath& Co (2005)
5. Public Finance, Harvey Rosen, McGraw Hill Publications, 7thEdition, 2005.

**WEBSITES AND e-LEARNING SOURCES:**

1. <https://academicearth.org/economics>
2. <https://rescuoc.edu/>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions / Problems Application/Analysis/Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – I

### MATHEMATICS FOR ECONOMISTS

Teaching Hours : 90

Credits: 4

Course Code : 3P18/1C/MFE// 8P18/1C/MFE

LTP : 3/ 3/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable Students to understand the application of Mathematical Tools to Economic Theories.
- To formulate Mathematical Models.

#### COURSE OUTLINE:

**UNIT I:** Vector and Matrix Algebra– Basic Operations – Trace - Rank and Inverse of a Matrix – Orthogonal Matrix – Partitioned Matrix – Elementary Transformation of a Matrix – Vector and Matrix Differentiation – Quadratic Form – Definite Matrices - Definition - Types and Properties – Positive Definite - Negative Definite.

(20 hrs)

**UNIT II:** Linear Equations - Consistency of a System of Linear Equations – Solution of a System of Linear Equations (homogenous and non-homogenous) – Linear Transformation – Eigen Values and Eigen Vectors.

(15 hrs)

**UNIT III:** Optimization Methods – Two and Three Variables – Unconstrained Optimization – Jacobian, Hessian – Constrained Optimization – Lagrangian.

(15 Hrs)

**UNIT IV:** Differential Equations types (elementary ideas) – Linear Differential Equations with Constant Coefficients (First, Second and Higher Order) – Solution of Differential Equations (Homogenous and Non-Homogenous) – Applications – Samuelson’s Accelerator and Multiplier Model.

(20 hrs)

**UNIT V:** Difference Equations- Finite Differences: Operators ‘E’ and ‘ $\Delta$ ’ – Linear Difference: Equations with Constant Coefficients (first, second and higher order) – Solution of Difference Equations (Homogenous and Non-Homogenous) – Applications – Samuelson’s Accelerator and Multiplier Model.

(20 hrs)



**BOOKS FOR REFERENCE:**

1. A.C. Chiang, Fundamental Methods of Mathematical Economics.
2. Carl. P. Simon – Lawrence Blume “Mathematics for Economist” Norton, 1994.
3. Edward T. Dowling, Mathematical Methods for Business and Economics, Schaums’s Outline Series (2002)
4. G. Hadley, Linear Algebra Addison – Wesley Publishing Company 1977.
5. K.Sydsaeter and P Hammond, Mathematics for Economic Analysis, Pearson Educational Asia, Delhi 2002.
6. Mabtett. Alan J “Workout for Mathematics for Economist” Macmillian 1986.
7. R.G.D. Allen, Mathematical Analysis for Economists Macmillan and Co. Ltd., 1938.
8. Renshaw, Geoff “Maths for Economics” Edition Oxford University Press 2005.

**WEBSITES AND e-LEARNING SOURCES:**

1. <https://ocw.mit.edu>
2. <https://www.edn.org>
3. <https://oyc.yale.edu>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions. (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

**Questions to be included from all units for section A and B. Questions should be 80% problems and 20% theory.**

## SEMESTER – I

### STATISTICAL METHODS FOR ECONOMISTS

Teaching Hours : 90

Credits: 4

Course Code : 3P18/1C/SFE // 8P18/1C/SFE

LTP: 3/ 3/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To make students familiar with various Statistical Tools and their applications in Economic Analysis and Scientific Research Work.
- To develop skills in handling complex problems in Data analysis and Research designs.

#### COURSE OUTLINE:

**UNIT I:** Interpolation and Extrapolation –Newton’s and Lagrange’s Methods.  
(15 hrs)

**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 hrs)

**UNIT III:** Simple, Partial and Multiple Correlation- Regression- Regression Lines- Multiple Regression.  
(20 hrs)

**UNIT IV:** Univariate and Multivariate Techniques – Factor Analysis.  
(15 hrs)

**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 Hrs)

**BOOKS FOR REFERENCE:**

1. 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.
2. R.S.N. Pillai and V.Bagavathi, Statistics, Sultan & Chand Sons, New Delhi 2010.
3. S.C.Gupta Fundamentals for Statistics Himalaya Publications House Pvt. Ltd 2016.
4. S.P Gupta- Statistical Methods, Sultan Chand & Sons 2017.
5. Sancheti -D.C and V.K. Kapoor Statistical Theory-Method and Application, Sultan chand& Sons 2010.
6. SC. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics 2014.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
2. <https://ocw.mit.edu>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

**Questions to be included from all units for section A and B. Questions should be 80% problems and 20% theory.**

## SEMESTER – I

### FINANCIAL ECONOMICS

Teaching Hours : 60

Credits: 3

Course Code : 3P18/1E1/FNE//8P18/1E1/FNE

LTP:2 /2/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To understand the financial system of India.
- To have an insight about trading in the financial markets.
- To analyse the security system in financial markets.

#### 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 hrs)

**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

(15 hrs)

**UNIT III:** Stock Brokers - Underwriters- Advantages- Responsibilities - Depositories- Functions- Procedure - Benefits- Remedies- Credit Rating Agencies- Benefits- Instruments- Investors- Company - Basic types.

(10 hrs)

**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

(15 hrs)

**UNIT V:** Merchant Banking- Recognition-Conditions - Role- Functions- Mutual Funds- Classification-Benefits- Performance -Venture Capital - Importance - Types

(10 hrs)

**BOOKS FOR REFERENCE:**

1. B.Santhanam, Financial services (Indian Financial system) Morgham Publication 2016.
2. Financial market-Institutions and services, N.K.Gupthan & Monika –Ane Book PVT Ltd – Delhi (2002)
3. Financial Markets and Financial Services in India, Benson Kunjukunju & S.Mohanan -New century Publications-Delhi (2004)
4. Indian Financial system, H.R.Modi Raja Financial services in India-Rajesh Kothari (2002).

**WEBSITES AND e-LEARNING SOURCES:**

1. <https://www.khanacademy.org>
2. <https://www.economicsnetwork.ac.uk>el>.

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.



## SEMESTER – II

### MACRO ECONOMIC THEORY AND ANALYSIS

Teaching Hours : 75

Credits: 4

Course Code : 3P18/2C/MEA // 8P18/2C/MEA

LTP : 3/ 2/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the advanced theories of Macro Economics.
- To facilitate the students to understand Macro Economic Policies and Tools.
- To equip the students in understanding the various Macro Economic Models.

#### COURSE OUTLINE:

**UNIT I:** Classical Theory of Income and Employment Determination with Saving and without Saving – Keynesian theory of Income Determination – Aggregate Demand and Aggregate Supply.

(15 hrs)

**UNIT II:** Consumption Function – Keynesian Psychological Theory – Investment Function – MEC - MEI - Multiplier- Accelerator- Super Multiplier- Fiscal and Monetary Tools.

(15 hrs)

**UNIT III:** General Equilibrium in the Product and Money Market- Hicks and Hansen – Non-Walrasian – Disequilibrium Theory – Robert W.Clower – Axel Leijonhufvud.

(15 hrs)

**UNIT IV:** Business Cycle Model- The Samuelson Model - The Hicksian Model- The Goodwin- Kaldor - Schumpeter and Cobweb Model.

(15 hrs)

**UNIT V:** Kalecki's Model- Cartters Model- Kaldor's Savings-Investment Model- Weintraub's Model.

(15 hrs)

**BOOKS FOR REFERENCE:**

1. Ackley, Gardner, 1978, Macro Economic Analysis: Theory and Policy, Macmillan Publishing Co, New York.
2. Ahuja, H., 2005, Macro Economics Theory and Policies Advanced Analysis, Ed. 10, Indiana Books and Journals, Chennai.
3. Brooman, F., 1963, Macro Economics, George Allen and Unwin Ltd, London.
4. Duesenberry J.S. Income, Savings and the Theory of Consumer Behaviours Harvard, 1940.
5. Koutsoyiannis.A, Macro Economics, Macmillan Press Ltd. London, 1975.
6. MontechAhluwalia, 2002, Macroeconomics and Monetary Policy, T. Publications, New Delhi.
7. N.GregoryMankiw, Macroeconomics, Worth Publishers, 7th edition, 2010.
8. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
9. Paul R. Krugman, Maurice Obstfeld and Marc Melitz, International Economics, Pearson Education Asia, edition, 2012.
10. Powelson, J.P.National Income and Flow of Funds Analysis, McGraw Hill Company Limited, New York, 1960.
11. Raghbendrasha, 1991, Contemporary Macroeconomic Theory and Policy, Ed. 25, Wiley Eastern Ltd., New Delhi.
12. Richard T. Froyen, Macroeconomics, Pearson Education Asia, 2nd edition, 2005.
13. Richard.T.Froyen, Macro Economics- Theories and Policies, Pearson (2004)
14. Shapiro, Edward, 1988, Macro Economic Analysis, Galgotia Publications Pvt Ltd, New Delhi.
15. Surrey, M.J.C. (Ed), Macro Economic Themes, OUP, Oxford, 1976.
16. Vaish, M., 1999, Macro Economics, Vikas Publishing House Pvt Ltd, Mumbai.

**WEBSITES AND e-LEARNING SOURCES:**

1. <https://www.khanacademy.org>
2. <https://www.economicsnetwork.ac.uk>>el.

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions / Problems Application / Analysis / Synthesis / Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER II

### HEALTH ECONOMICS

Teaching Hours: 75

Credits: 4

Course Code : 3P18/2C/HES

LTP : 3/2/0

#### COURSE OBJECTIVES AND OUTCOME:

- To have an insight into the Health Policy and alternative medicines.
- To Study the growth of Health Tourism.
- To Study the Cost - benefit analysis in Health Care.

#### COURSE OUTLINE:

**UNIT I:** The National and International Health Scene - Health Output and Indicators and their Correlation with the level of economic development – Hospitals in Rural and Urban India – Measures taken by Government - A review of the Indian National Health Policy.

(10 hrs)

**UNIT II:** Resource Allocation in the Health Sector - Resource allocation Problems in private and government Hospitals – The Problem of multiple services of a Hospital – Pricing of these services and the choice of the mix of services – The tradeoffs between quantity and quality – Production Function – Productive Efficiency and equity considerations applied to the hospital sector - Spatial Distribution of health care facilities and services – the demand for health services and the role of physician – the pharmaceutical companies.

(15 hrs)

**UNIT III:** Evaluation of benefits and cost of health services - private benefits and private cost of providing health services – the failure of the market to provide essential health services – the provision of health services by the government – the application of benefit cost analysis to public health and family planning projects – the role of health in economic development- value of output lost due to number of sick days - Benefits and Costs (both private and social) of training to professional manpower such as physicians – dentist, pharmacists, nurses.

(20 hrs)

**UNIT IV:** Financing of Health services - the need for a general health insurance – the need for special insurance for the poor - disabled and the aged- A comparative analysis of alternative payment system - prepayment scheme – saving linked direct insurance system etc - Financing health service through specific (health cess) and general (direct and indirect taxes) local government revenues – the role of Financing Institutions in financing health services.

(15 hrs)

**UNIT V:** Growth of Allopathy - Homeopathy - Indian Traditional Medicine – Educational Institutions in India & Growth of Medical Tourism in India.

(15 hrs)

**BOOKS FOR REFERENCE:**

1. Banerjee, D. (1975), social and Cultural Foundations of Health Service Systems of India, Inquiry, Supplement to Vol. XII, June 1975.
2. Edwin G Dolan and John C Goodman: Economics of Public Policy: 4<sup>th</sup> Edition: West Publishing Company, New York 1995.
3. Higher Education Reform in India – 1993 – Suma Chitnis and Philip Altbach Sage – New Delhi, 1993.
4. M. Grossman, 'The Shadow price of Health in the Economics of Health' Vol. 1 by A.J. Culyes (ed) (1991), Edward Elger publishing Ltd, UK. 2000.
5. Volan Brian (1993) Economics Incentives, Health Status and Health services, Utilisation, Journal of Health Economics, Vol II. 1993.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.decd.org>edu>leri](http://www.decd.org>edu>leri)
2. [www.gettingsmart.com](http://www.gettingsmart.com)

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – II

### ECONOMETRIC METHODS

Teaching Hours: 75

Credits: 4

Course Code : 3P18/2C/ECM // 8P18/2C/ECM

LTP : 3/ 2/ 0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the essential quantitative tools to make decision making a rational process.
- To learn the technique of finding optimal solutions in a dynamic business environment.

#### COURSE OUTLINE:

**UNIT I:** Regression Analysis - Linear Regression Model – Two Variables and Multi Variables – BLUE property – General and Confidence Approach to Hypothesis Testing – Partial Effects and Elasticity – Goodness of fit - Extension of Linear Regression Models - Definition, Sources - Consequences and Detection of Multicollinearity – Heteroscedasticity - Autocorrelation and Remedial Measures.

(15 hrs)

**UNIT II:** Dummy Variables - Regression on Qualitative and Quantitative Variables - Dummy Variable Trap – Structural Stability of Regression Models – Chow Test – Deseasonalisation - Piecewise Linear Regression Model.

(15 hrs)

**UNIT III:** 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.

(15 hrs)

**UNIT IV:** 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 hrs)

**UNIT V:** 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.

(15 hrs)

**BOOKS FOR REFERENCE:**

1. Brooks, C., Introductory Econometrics for Finance, first edition, Cambridge University Press, 2003.
2. Gujarati, N.D., Basic Econometrics, fourth edition, McGraw Hill, 2003.
3. Johnston, J., Econometric Methods, third edition, McGraw Hill, 1984.
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.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
2. <https://ocw.mit.edu>
3. <https://www.edn.org>



**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

**Questions to be included from all units for section A and B. Questions should be 80% problems and 20% theory.**

## SEMESTER – II

### STATISTICS WITH COMPUTER APPLICATIONS

Teaching Hours: 75

Credits: 4

Course Code : 3P18/2C/SCA // 8P18/2C/SCA

LTP : 2/2/1

#### COURSE OBJECTIVES AND OUTCOME:

- To make students familiar with various Statistical Tools and their applications in Economic Analysis for Scientific Research Work.
- To develop skills in handling complex problems in Data Analysis and Research design.

#### COURSE OUTLINE:

**UNIT I:** Sampling Theory- Types of Sampling -Sampling Distributions and Standard Error of-Means - Standard Deviation and Proportions - Testing of Hypothesis - Level of Significance - Type I and Type II Error - Large Sample test for Two Means - Two Standard Deviations and Two Proportions.

(15 hrs)

**UNIT II:** Estimator and Estimate – Point and Interval Estimates – Reliability of an Estimate – Sampling Variance and Mean Square Error – Properties of a good estimator.

(15 hrs)

**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 hrs)

**UNIT IV:** F test – Analysis of Variance- One Way and Two Way Classifications.

(15 hrs)

**UNIT V:** Introduction – Statistical Data Files- Statistical Workbook – Installation – Data Spreadsheet Toolbar - Scroll Sheet Applications- Diagrams and Graphs - Elementary concepts in Statistics – Application in Computer – Correlation, Multiple Correlation - Regression – Multiple Regression – ANOVA (**Practical Examination only. No question for End Semester Examination**)

(15 hrs)

**BOOKS FOR REFERENCE:**

1. 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.
2. R.S.N. Pillai and V.Bagavathi, Statistics, Sultan & Chand Sons, New Delhi 2010.
3. S.C.Gupta Fundamentals for Statistics Himalaya Publications House Pvt. Ltd 2016.
4. S.P Gupta- Statistical methods, Sultan Chand & Sons 2017.
5. Sancheti -D.C and V.K. Kapoor Statistical theory-Method and Application, Sultan chand& Sons 2010.
6. SC. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics 2014.

**WEBSITES AND e-LEARNING SOURCES:**

1. [elearning.ec.unipi.gr](http://elearning.ec.unipi.gr)>elearning
2. <http://www.coursera.org/learn/economics>
3. <http://www.springboard.com>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

**Questions to be included from all units for section A and B. Questions should be 80% problems and 20% theory.**

## SEMESTER II

### MANAGERIAL ECONOMICS

Teaching Hours : 60

Credits: 3

Course Code : 3P18/2E2/MGE//8P18/2E2/MGE

LTP: 4/0/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the Models and Managerial Theories of the firm.
- To equip them in selecting projects under risk and uncertain conditions.

#### COURSE OUTLINE:

**UNIT I:** Definition of Economic Models – Types of Models – Analysing Cases in Managerial Economics – Usefulness of Case Study Method – Limitations of Case Study Method.

(15hrs)

**UNIT II:** Inventory Management- Types of Inventory - Methods of Inventory Control – EOQ – ABC - VED Analysis.

(10hrs)

**UNIT III:** Role of Government in Market Economy – Legal and Social Framework – Restraining Unfair Competition – Increasing Market Power – Reallocation of Resources – Redistribution of Income – Regulation of Natural Monopoly – Stabilisation of the Economy.

(15hrs)

**UNIT IV:** Risk in Project Analysis – Selection of a Project – Finite Horizon Method Certainty – Equivalent Approach – Decision Tree Approach – Sensitivity Analysis – Capital Budgeting – IRR – NPV.

(10hrs)

**UNIT V:** Forecasting - Economics and Business Forecasting Methods of Economic Forecasting – Evaluating Forecasts

(10hrs)

### **BOOKS FOR REFERENCE:**

1. Arnold, Chapman, Introduction to Material Management: Pearson, 5<sup>th</sup> Edition, 2008.
2. Eugene F Brigham, "Financial Management Theory and Practice", 2<sup>nd</sup> Hinsdale III – the Dryden Press, 2014.
3. Idenbaum, M.L (1979), "Business, Government and the Public, Englewood Cliffs, N.J Prentice Hall, India.
4. M. M.Varma, "Materials Management "Sultan Chand & Sons, Fourth Ed, New Delhi 2003.
5. Metha.P.L., "Managerial Economics – Analysis, Problems and . Cases", Sultan Chand & Sons, New Delhi, 2016.
6. Michael R Baye – Managerial Economics & Business Strategy – Mc. Graw Hill, USA, 5<sup>th</sup> Edition 2006.
7. Teman, D.R. and Stone Hill A.L., "Multi National Business Finance", Pearson Prentice Hall, 2012.
8. W.Bruce Allen, Neil A.Doherty, Keith Weigelt& Edwin Masfield – Managerial Economic Theory, Applications and Cases, W.W.Norton Company, London, 6<sup>th</sup> Edition, 2005.

### **WEBSITES AND e-LEARNING SOURCES:**

1. [www.gettingsmart.com](http://www.gettingsmart.com)
2. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
3. <https://ocw.mit.edu>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

**Questions to be included from all units for section A and B. Questions should be 80% problems and 20% theory.**

## SEMESTER – II

### HEALTH CARE MANAGEMENT

Teaching Hours : 60

Credits: 3

Course Code : 3P18/2E/HCM

LTP: 3/1/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand about the health care administration and medical care.
- To expose the students to Health Insurance and First Aid.

#### COURSE OUTLINE:

**UNIT I :** Definition of Health – Health as a Component of Human Resource Development – Health as a Commodity and Service – Scope of Health Management.

(10hrs)

**UNIT II :** Health Awareness – Health Education - Approaches to Health Education - Health Education and Health Services – Planning Health Education.

(10hrs)

**UNIT III:** Health Management – Preventive Care and Curative Care – Individual Health Care – Role of the State in Health Care – Privatization and Health Care – Rural Health Care – Tele Medicine.

(15hrs)

**UNIT IV:** Health Insurance – Private – Government – Recent Trends.

(10hrs)

**UNIT V:** First Aid – Need for First Aid – Methods of First Aid – Medical Tourism – Health Tourism in India.

(15hrs)



**BOOKS FOR REFERENCE:**

1. Health Care Management – Kieran, Walshe, et.al, 2011, Mc.Graw Hill Education UK.
2. Health Care Management – Pradeep, Bharadwaj, 2015, Jaypee Publications, Delhi.
3. Health Care Management – Rose T Dunn, 2010, Ninth Edition Health Administration Press US.
4. Health Care Management Organisation, Design and Behaviour- Lawton Robert Burns et.al., 2012, DELMAR, Cengage Learning, USA.
5. Introduction to Health care Management – Nancy H Shanks and Sharon B Buchbinderi, Feb 2007, Jones and Bartleth Learning Canada.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.gettingsmart.com](http://www.gettingsmart.com)
2. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
3. <https://ocw.mit.edu>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – III

### INDIAN ECONOMY

TEACHING Hours: 90

Credits: 4

Course Code: 3P18/3C/IEY//8P18/3C/IEY

LTP: 3/3/0

#### COURSE OBJECTIVES AND OUTCOME:

- To understand the structure of Indian Economy.
- To familiarize students with the Sectoral Dimension of Indian Economy.
- To analyse the various recent economic policies.

#### COURSE OUTLINE:

**UNIT I:** Features of Indian Economy - Indicators of Development - Human Development Index (HDI), Gender Development Index (GDI), PQLI, DAILYs, Happiness Index- Rank of India- The Theory of Demographic Transition –Size and Growth of Population in India –Birth Rate –Death Rate – The Sex Composition of Population –Age Composition –Density of Population –Urbanisation

(20 hrs)

**UNIT II:** Meaning, Types and Models- Mahalanobis - Input Output Multi - Sectoral Model– Planning Commission – Overview of Indian Five Year Plans - Eleventh and Twelfth Five Year Plans – Objectives- Evaluation and Appraisal- NITI Aayog.

(20 hrs)

**UNIT III:** Agricultural Growth – Major Factors Affecting Growth Potential – Agricultural Crisis and Rural Distress – Crop Insurance – Organic Farming – Agriculture Price Policy – Minimum Support Price linked with Production Cost – Food Management and Food Security.

(15 hrs)

**UNIT IV:** Industrial Growth – Index of Industrial Production – Performance of the Eight Core Industries – FIRE Sector – MSME – Make in India – Start Up India – Implementation of GST and its impact on Industrial sector.

(20 hrs)

**UNIT V:** FDI – Types – Trends in FDI inflows – Sectoral Composition – FDI Policy – FDI Inflows and its Impact on Indian Economy.

(15 hrs)

**BOOKS FOR REFERENCE:**

1. Economic survey – vol.2, Government of India, Ministry of Finance, Department of Economic affairs, Economic Division, August 2017.
2. Indian Economy, Dhingra I.C, S.Chand and Sons 2011.
3. Indian Economy, Dutt and Sundaram, S.Chand and Sons, 2013.
4. Planning Commission Reports, GOI, Various Issues.
5. Uma Kapila, “Indian Economy – Performance and Policies”, 16<sup>th</sup> Edition – Academic Foundation, New Delhi 2015-16.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
2. <https://ocw.mit.edu>
3. <https://www.edn.org>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER-III

### MONETARY ECONOMICS

Teaching Hours: 75

Credits : 4

Course Code : 3P18/3C/MOE//8P18/3C/MOE

LTP : 3/2/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the concept of money and the theoretical and empirical dimensions of monetary system.

#### COURSE OUTLINE:

**UNIT I:** Demand for Money – The Classical Quantity Theory of Money – Cash Balance - Keynesian Theory of Demand for Money – The Post Keynesian Theory- Milton Friedman - W.J.Baumol - James Tobin – Don Patinkin’s Real Balance Effect – Transmission Mechanism of Monetary Policy.

(15 hrs)

**UNIT II:** Supply of Money – Measures of Money Supply – Determination of Money Supply – Currency Circulation in India – Empirical Relationship between Money Supply and Prices.

(15 hrs)

**UNIT III:** Implementation of Basel Norms – Capital Adequacy Ratio - Commercial Banks – Balance Sheet Analysis – Financial Indicators – Current ratio / Liquidity ratio – Debt-equity ratio – Tangible Network Operative Income – Return on Investment – Assets – Bankruptcy – Insolvency Code Act

(15 hrs)

**UNIT IV:** Financial Intermediaries – Non Banking Financial Intermediaries (NBFI) – Nature – Functions – Money and Capital Market in India.

(15 hrs)

**UNIT V:** Phillip’s & Long Run Phillip’s Curve - Monetary Policy – Expansionary and Restrictive Monetary Policy - Time Lags in Monetary Policy- Recent Indian Monetary Policy - Demonetisation and its Impact.

(15 hrs)

### **BOOKS FOR REFERENCE:**

1. Don Patinkin Money, Interest and Price: An Intepretation of Monetary and Value Theory. A Harper, International Edition.
2. Gold Field and Chandler , The Economics of Money and Banking, Harper and Row, Newyork (2005).
3. Handbook of Monetary Economics Volume 3, (2010), Online Version –Science Direct.com.
4. M.L.Seth - Money, Banking, International Trade and Public Finance - Lakshmi Narian Agarwal – 2017.
5. Monetary Economics – An Integrated Approach to Credit, Money, Income, Production and Wealth – Godley, W.Lavole.M. (2012).
6. R.R.Paul, Monetary Economics, Kalyani Publishers, 2015.
7. Rituparna Das, “Determination of Money Supply in India: The Great Debate, “Working Paper Series, and June 2009.
8. Weekly Statistical Supplement – RBI.

### **WEBSITES AND e-LEARNING SOURCES:**

1. <https://www.khanacademy.org>
2. <https://www.economicnetwork.ac.uk>>el.

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.



## SEMESTER-III

### RESEARCH METHODOLOGY AND COMPUTER

#### APPLICATIONS IN ECONOMICS

Teaching Hours: 75

Credits : 4

Course Code : 3P18/3C/RMC//8P18/3C/RMC

LTP : 2/2/1

#### COURSE OBJECTIVES AND OUTCOME:

- To understand the research, the research process in a scientific manner.
- To assist the students in preparing project dissertation and proposals.
- To learn the computer applications in Economic research.

#### COURSE OUTLINE:

**UNIT I:** The Scientific Approach – Aims of Social Sciences –Scientific Sciences – Scientific Revolution – Role of Methodology – Research Process – Conceptual Foundation of Research – Economic Theory and Methods – Axiomatic, Mathematical and Historical Methods – Theory, Models and Empirical Research – Basic Elements in Research – Identification of a Research Problem – Hypothesis Formulation and Testing – Research Process – Ethics in Research.

(15 hrs)

**UNIT II:** Principles and Process in 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, Economic Survey , RBI Report , Agricultural Census, Annual Survey of Industries.

(15 hrs)

**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.

(15 hrs)

**UNIT IV:** Series – Group tables – Groups and objects – Time and Frequency Series – Regression Methods and Techniques – Regression Analysis – Trends and Forecasting – Report writing – Plan of Research report – Style & Mechanics of writing Research report.

(15 hrs)

**UNIT V:** Application of Software to Economic Research – (Practical Classes).

(15 hrs)

**BOOKS FOR REFERENCE:**

1. Bhattarya S.K., 1990, Methodology in Research.
2. Das Gupta, 1995, Methodology in research.
3. Feber and Verdorn, Research Methods in Economics and Business (2005)
4. Goode, 1983, William J and Paul K Hatt, Methods in Social Research, McGraw Hill International Book Co., London.
5. Young, Pauline V, 1977, Scientific Social Surveys and Research, Prentice Hall of India, New Delhi.
6. C.Rangarajan – GOI –Commission for Statistics.

**WEBSITES AND e-LEARNING SOURCES:**

1. <https://www.khanacademy.org>
2. <https://www.economicsnetwork.ac.uk>>el.
3. <https://elearneconomics.com>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER- III

### ECONOMICS OF SOCIAL ISSUES

Teaching Hours : 60

Credits : 3

Course Code : 3P18/3E3/ECS

LTP : 3/1/0

#### COURSE OBJECTIVES AND OUTCOME:

- To help students demonstrate how Economic Analysis can be applied to variety of Personal, Societal and International Issues.
- To enable students gain Factual Knowledge about the Societal Issues.
- To help students to understand the Crux of Social Issue and help to make independent analysis and judgment on Contemporary Issues.

#### COURSE OUTLINE:

**UNIT I:** Social Economics- Definition –Scope –Equality in Human Societies – Principles of Social Doctrines – Gandhi –Karl Marx – Max Weber – Voltaire – Rosseau – Gandhi – Social problems - Urban and Rural. (10 hrs)

**UNIT II:** Poverty - Global Poverty (an assessment) - Causes and Consequences of Poverty – Sustainable Development - Role of Poverty Social Security –Social Banking –Migration related poverty issues – Slums – Remedial Measures. (10 hrs)

**UNIT III:** Unemployment-Meaning – Types – Causes – Employment in Organized and Unorganized Sectors – Work Participation Rates – Wages – Standard of Living – Unemployment and Social Unrest. Self Help Groups- Nature - Structure and Objectives of Self Help Groups –SHG and Worker's Empowerment –SHG in India (15 hrs)

**UNIT IV:** Human Capital -Components of Human Capital –Issues related to Secondary and Higher Education – Health and Health related Issues in Development – Human Development Index – Gender Development Index. (10 hrs)

**UNIT V:** Economics of Black Economy and Crime- Black money - Definition – Sources – Corruption - Parallel Economy - Economic Issues –Causes and Consequences-Remedies-Consumerism –Cyber Crime – Hacking, Attack Vectors, Mobile Security Issues - Digital Crime – Crime against Women and Children - Human Rights Violation –Dimension of Terrorism. (15 hrs)

**BOOKS FOR REFERENCE:**

1. Culyer A.J. (1973) *The Economics of Social Policy*, Martin Robertson and Co Ltd, London.
2. Dreze Jean and Amartya K Sen (1989) *Hunger and Public Action*, Clarendon Press, Oxford.
3. Harbinson Frederick and Charles A. Meyers (1964) *Education Man Power and Economic Growth: Strategies of HRM*, McGraw Hill Book & Co, New York.
4. Legrand Julian and Ray Robinson (1976) *The Economics of Social Problems*, The Mac Milan Press & Ltd, London.
5. Lutz Mark and Kenneth Lux (1979) *The Challenge of Humanistic Economics*, Benjamin / Cummings Publishing Co, California.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.gettingsmart.com](http://www.gettingsmart.com)
2. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
3. <https://ocw.mit.edu>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – III

### ECONOMICS OF INFRASTRUCTURE

Teaching Hours : 60

Credits: 3

Course Code : 3P18/3E4/EIS

LTP : 3/1/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable the students to understand the development of Infrastructure over the period of time.
- To have an insight of contribution of Infrastructure to Economic Development.
- To identify the strategies required for the growth of the Economy in the present scenario.

#### COURSE OUTLINE:

**UNIT I:** Infrastructure and Economic Development – Infrastructure as a Public Good; Social and Physical Infrastructure; Special Characteristics of Utilities - Peak – load, Off- Load problem - Dual Principal Controversy (10 hrs)

**UNIT II:** The Structure of Transport Costs and Location of Economic Activities - Demand Transport - Models of Freight and Passenger Demand - Models Choice; Cost Function in the Transport Sector - Principle of Pricing - Special Problems of Individuals Modes of Transport – Impact on Economic Development. (15 hrs)

**UNIT III :** Private Sector Participation in Communication - Primacy of Energy in the process of Economic Development – Factors Determining Demand for Energy – Effects of Energy Shortage – Energy Conservation – Renewable and Non – Conventional Sources of Energy – The search for an Optimal Energy Policy in Indian context. (15 hrs)

**UNIT IV:** Organization and Financing of Services – Private vs. Public Sector Financing – The fixation of Prices of Social Services – Health - Education - Human Development – Scope and Relevance of Human Resource Development – Education and Economic Growth – Educational planning – Social Demand – The case for Universal – Free - Primary Education - Structure of Higher Education and Problems of Financing in India - Issues in Education Policy – Importance of Health and its Impact on Economic Development. (10hrs)

**UNIT V:** Infrastructure in Modern India – Strategies for Infrastructure Development – Differences in infrastructure building between China and India - Infrastructure Investments in India – Prioritisation of Infrastructure sectors for Development – Macro perspective of Infrastructure Development in India – Infrastructure and plans. (10 hrs)

**BOOKS FOR REFERENCE:**

1. Abel-smith, Brian wolper L.F and Pena.J In Introduction to Health : Policy, planning and financing, Longman Group Limited, England.
2. Crew, M.A. P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London.
3. Gayal , S.K (Ed.) (1995), Public Enterprises, Indian Institute of Public Administration, New Delhi.
4. Health care Administration, 2000. (Principles and practice) An Aspen publication, Maryland, USA.
5. Indian Council of Social Sciences Research (ICSSR) (1976), Economics of infrastructure, Vol . VI New Delhi.
6. Infrastructure Report: India Infrastructure – Oxford University Press (Revised Edition) 3. Nanjudappa – Economics of Transport, 2011.
7. Indian Infrastructure, Govt. of India Publication 2017
8. World Bank Infrastructure Report 1994.
9. Infrastructure Committee, GOI 2017.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.economicdiscussion.com](http://www.economicdiscussion.com)
2. [www.decd.org>edu>leri](http://www.decd.org>edu>leri)
3. [www.gettingsmart.com](http://www.gettingsmart.com)



**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – III

### HOSPITAL ADMINISTRATION

Teaching Hours : 60

Credits: 3

Course Code : 3P18/3E/HAD

LTP :3/1/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the theoretical fundamentals of hospital administration along with a practical exposure.

#### COURSE OUTLINE:

**UNIT I :** Definition of Hospital Administration – Administrative Functions – Modern Techniques – Health Care Marketing – Challenges in Hospital Administration.

(10hrs)

**UNIT II :** Accounting Principle – Systems – Budgeting Process- Depreciation.

(10hrs)

**UNIT III:** Human Resources Planning - Application to Staffing – Management of Doctors Unit - Management of Nursing Unit - Supporting Unit - Quality of Care.

(15hrs)

**UNIT IV:** Information and Communication in Hospital Administration - Barriers to Communication – Electronic Maintenance of Records.

(15hrs)

**UNIT V :** Medical Ethics – A Case Study of Private Hospital Administration (Multi-Speciality Hospital-Super Hospital-Corporate Hospitals).

(10hrs)

**BOOKS FOR REFERENCE:**

1. Goel .S.L, Health Care Administration Vol; I & II, III, Sterling Publications, 1981.
2. Hospital Administration A Problem – Solving Approach Amarjeet Singh SonuGoel and AnilKumar Gupta Dec 2013 Elsevier India Netherlands.
3. Hospital Administration Principles and Practices Yaspal Sharma RK Sharma Libert Anil Gomes 2013 Jaypee Brothers Medical Publication Pvt. Ltd New Delhi.
4. La Monic Morgan. P.I., Management in Health Care, Macmillan Press Ltd London 1994.
5. Principles of Hospital Administration – DC Joshi Mamta Joshi – Jaypee Brothers Medical Publication Pvt. Ltd -2008 – New Delhi.
6. Principles of Hospital Administration and Planning B.M Sakharkar 2009 Jaypee Brothers Medical Publication Pvt. Ltd New Delhi.
7. Reality of Hospital Administration D.RambabuJaypee Brothers Medical Publication 2014 New Delhi.
8. Reinke, Health Planning for Effective Management, Oxford University Press, New York, 1988.
9. Syed Amin Tabish, Hospital and Health Services Administration, OUP New Delhi, 2001.
10. Wolper.L.FAndPena.J, Health Care Administration – Principles and Practice, An Aspen Publication, Maryland, U.S.A., 1989.

**WEBSITES AND e-LEARNING SOURCES:**

1. <http://www.springboard.com>
2. [www.economicdiscussion.com](http://www.economicdiscussion.com)
3. [www.decd.org>edu>leri](http://www.decd.org>edu>leri)
4. [www.gettingsmart.com](http://www.gettingsmart.com)

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions / Problems Application/Analysis/Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

### SEMESTER III

## YOGA AND MEDITATION FOR BETTER LIVING

Teaching Hours : 30

Credits: 2

Course Code : 3P18/3S/YML//8P18/3S/YML

LTP: 1/0/1

#### COURSE OBJECTIVES AND OUTCOME:

- To enable the students to inculcate the art of Yoga and Meditation in Day – to – Day Life and help them experience the 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 and Acupressure Points and benefits.

(10hrs)

**UNIT II:** Meditation – Introduction – Brain Wave Patterns – Functions of Right brain & Left brain- The sub Conscious Mind – Chakras – Anthakarna – Koshas – Goal visualization – The physical body and the Etheric body – Positive affirmations.

(10hrs)

**UNIT III:** Practice on 12 Asanas and simplified physical exercises – Practical sessions on Meditation –Surya Namaskar– Practical lessons on few Mudras.

(10hrs)

**BOOKS FOR REFERENCE:**

1. Meditation for Beginners – Vikasthalkani.
2. Simplified Physical Exercises – Vethathiri Maharishi.
3. Yoga Sutras of Patanjali – Hariharananda Aranya, University of Calcutta Press, Calcutta.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.gettingsmart.com](http://www.gettingsmart.com)
2. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
3. <https://ocw.mit.edu>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>PATTERN</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Section A	Answer any ten out of twelve (10x 5=50 marks)	Application / Analysis / Synthesis / Evaluation	50 Marks

Part A : Definition and Descriptions 12 questions, at least two from each unit.

## SEMESTER- IV

### ECONOMICS OF GROWTH AND DEVELOPMENT

Teaching Hours: 90

Credits: 4

Course Code : 3P18/4C/EGD// 8P18/4C/EGD

LTP : 3/3/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable the students to know about Development Indices.
- To make the students understand Development and Growth Models.
- To enable the students to become proficient for NET and SET Exams.

#### COURSE OUTLINE:

**UNIT I:** Introduction – Economic Growth, Economic Development and Sustainable Development – Vicious Circles of Poverty, Measures of Development: HDI and Quality of Life Indices, Measures of Inequality, Development Gap, Country Characteristics and Cross Country Comparisons, Relationship between Population, Poverty and Environment – Global Happiness Index.  
(15 hrs)

**UNIT II:** Model of Growth – Harrod – Domar Model – Nobel Laureate Robert Solow Model of Steady – Growth – Joan Robinson’s Model – Meade Steady Growth Model – Kaldor’s Growth Model – Two Sector Model of Uzawa.  
(20 hrs)

**UNIT III:** 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- Dixit and Margline Model.  
(20 hrs)

**UNIT IV:** Choice of Techniques and Appropriate Technology – Nobel Laureate James M. Buchanan (1986) Cost – Benefit Analysis – Myrdal Theory of Cumulative Causation – Shadow Prices – Leibenstein’s Critical Minimum Effort Theory.  
(20 hrs)

**UNIT V:** New Technology and Sustainable Agriculture- Globalization and Agriculture – International Trade as an engine of growth, inward looking and outward oriented strategies for development, Import Substitution and Export led growth, Dual Gap Analysis- A Paradoxical Theorem (Mundell).  
(15 hrs)



**BOOKS FOR REFERENCE:**

1. A N Agarwal and S P Singh (Eds); 1958 – The Economics of Underdevelopment, Volumes I, II and III; Oxford University Press.
2. A.Sen (Ed) – 1970- Growth Economics: Selected readings; Penguin.
3. Benjamin Higgins Economic Development, Problems, Principles and Policies, Universal Book Stall, New Delhi.
4. Debraj Ray, 1998; Development Economics, Oxford Indian Paperbacks.
5. Edward Shapiro, Macro Economics, Galgotia, New Delhi.
6. H.G.Mannur International Economics, Vikas Publishing House, New Delhi.
7. Hywel G Jones – 1976 – An Introduction to Modern theories of Economic Growth: McGraw Hill.
8. KaushikBasu, 1998; Analytical Development Economics: The Less Developed Economy Revisited, Oxford Indian Paperbacks.
9. M.L.Jhingan The Economics of Development and Planning, Vrinda Publication New Delhi.
10. Taneja& Meier – Growth & Development Model & Planning 2015.

**WEBSITES AND e-LEARNING SOURCES:**

1. <http://www.coursera.org/learn/economics>
2. <http://www.springboard.com>
3. [www.economicdiscussion.com](http://www.economicdiscussion.com)

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER – IV

### INTERNATIONAL ECONOMICS

Teaching Hours : 90

Credits : 4

Course Code : 3P18/4C/INE // 8P18/4C/INE

LTP : 3/3/0

#### COURSE OBJECTIVES AND OUTCOME:

- To enable the students to understand the Theories and Tools of International trade.
- To understand the exchange control measures and FDI.
- To have an insight on International Institutions.

#### COURSE OUTLINE:

**UNIT I:** Theories of International trade – Samuelson’s Factor – Price Equalisation Theory - Factor Intensity Reversals – Single – Multiple – Stolper Samuelson Theorem – Rybczynski Theorem –Leontief Paradox, Immiserising growth.  
(15 hrs)

**UNIT II:** Trade welfare and Terms of Trade of a Small country and Large country - Factors determining Terms of Trade - Gains from trade – Potential gain and Actual gain - Gains from Trade in the case of Large and Small country – Static gain and Dynamic gain- Preferential Trade Areas (PTAs)- Free Trade Areas (FTAs)- TRIPS- TRIMS- TPRM.  
(20 hrs)

**UNIT III:** Exchange control measures – Objectives - Methods – Determination of Equilibrium Exchange Rate – Theories – MintPar – Purchasing Power Parity – Balance of Payment theory – Fixed versus Flexible Exchange Rate; Financial Globalisation and Financial Crisis.  
(20 hrs)

**UNIT IV:** Foreign Direct Investment – Types – Merits and Demerits – Role and Functions of Multinational Corporations and MNB’s – Technology transfer. Impact of Foreign Capital on India’s Economic Development - Outflow of FDI.  
(20 hrs)

**UNIT V:** IMF- World Bank- GATT- WTO- European Bank for Reconstruction and Development- G20- ADB- BRICS- Brexit - Globalisation and its Impact on India’s Trade – Rationale and Impact of Trade Reforms since 1991 on BOP, FDI, Employment and Growth - Trading Blocs –SAARC – NAFTA – EU - ASEAN.  
(15 hrs)

**BOOKS FOR REFERENCE:**

1. Bosodersten- International Economics, Macmillan Press Ltd London 2014.
2. Charles. P Kindleberger – International Economics. Macmillan Press Ltd London, 1999.
3. Dominick Salvatore – International Economics. John Wiley International Student Edition 2014.
4. M.L. Jhingan - International Economics. M.L. Vrindha Publications, 2016.
5. Paul Krugman, MaurisObstfield and Marc Melitz, Addison- Wesley International Economics Theory and Policy, Pearson Education Indian Edition 2014.
6. Robert Carbaugh- International Economics- Cengage Learning 2016.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
2. <https://ocw.mit.edu>
3. <https://www.edn.org>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER IV

### ENVIRONMENTAL ECONOMICS

Teaching Hours : 90

Credits : 4

Course Code : 3P18/4C/ENE//8P18/4C/ENE

LTP :3/3/0

#### COURSE OBJECTIVES AND OUTCOME:

- To evaluate the current policy, practices in environmental protection.
- To understand the hazards of resources depletion.
- To enhance student's ability to analyze Environmental policy issues.

#### COURSE OUTLINE:

**UNIT I:** Introduction to Environment in Economic Theory – Classification of Resources – Material Balance Approach. (15 hrs)

**UNIT II:** Environmental Resources – Scarcity and Choice – Economic Efficiency; Efficient allocation - Efficiency in Consumption Production and Product Run Efficiency - Social Welfare Function and Optimality - Inter – Temporal Efficiency - Optimal allocation and a market Economy – Market Failure and Public Policy – Externality and Public Goods- Externality and Economic Efficiency. (20 hrs)

**UNIT III:** Harvesting Renewable and Non-Renewable Resources – Simple Optimum Resource Depletion Model – Resource extraction in Perfect Competition and Monopolistic market – Dynamic of Resources Harvesting – Socially optimal resource harvesting - Economics of Forestry – Conservation of Resources. (20 hrs)

**UNIT IV:** Pollution and Depletion of Quality and Quantity of Environmental Resources – Classification of forms of Pollution – Nature of Emissions – Transboundary Protection – Efficient level of Pollution – Pollution Abatement – Issues in Economics of Pollution – Technological Progress. (20 hrs)

**UNIT V:** Environment and Economic Policy – Coase Theorem – Economically efficient and cost effective pollution abatement programs – Forms of Direct regulation (tax, subsidies and permits)- Hedonic Valuation- Economic growth and Natural Environment Population Growth, Economic, International and Global Environmental Population Problems – SDG (Environment Goals). (15 hrs)

**BOOKS FOR REFERENCE:**

1. Environmental and Natural Resource Economics 11<sup>th</sup> Edition- Tom Tietenberg and Lynne Lewis 2017.
2. Environmental Economics- Karpagam. M. Sterling Publisher Private Ltd. 1999.
3. Environmental Economics: Theory and Applications- Katar Singh, Anil Shishodia Sage Publication, 2007.
4. Handbook of Environmental and Resource Eco- Jeoren C.J.M., Vanden Bergh, 1999.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.economicdiscussion.com](http://www.economicdiscussion.com)
2. [www.decd.org>edu>leri](http://www.decd.org>edu>leri)
3. [www.gettingsmart.com](http://www.gettingsmart.com)

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/ Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.



**SEMESTER – IV**

**PROJECT**

**Teaching Hours : 90**

**Credits : 4**

**Course Code : 3P18/4C/PRJ**

**COURSE OBJECTIVES AND OUTCOME:**

- To enable students to understand the significance of conducting research in a scientific manner.
- Submission of Project Report on any Economic or Social Issue.

## SEMESTER-IV

### DEMOGRAPHY

Teaching Hours : 60

Credits: 3

Course Code : 3P18/4E5/DEY

LTP : 3/1/0

#### COURSE OBJECTIVES AND OUTCOME:

- To understand the structure of population.
- To have an insight of Migration and Urbanisation pattern.
- To study population, economy and environmental linkages 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.

(10 hrs)

**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.

(15 hrs)

**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.

(15 hrs)

**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.

(10 hrs)

**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.

(10 hrs)

**BOOKS FOR REFERENCE:**

1. Agarwala S.N. (1972), India's Population Problem, Tata McGraw-Hill Co, Bombay.
2. Bogue, D.J. (1971), Principals of Demography, John Wiley, New Delhi.
3. Bose, A. (1996), India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
4. Chenery H. and T.N. Srinivasan (Eds.), (1989), Hand Book of Development of Economics Vol. 1& 2 Elsevier, Amsterdam.
5. Choubey, P.K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
6. Coale A. J. and E. M. Hoover (1958), Population Growth and Economic Development in Low Income Countries : A Case Study of India's Prospects, Princeton University Press, Princeton.
7. Demographic Method and Concepts Donald T 2003.
8. Demography: Measuring Modelling Population Summel H Preston Processes – 2000
9. Gulati, S.C. (1988), Fertility in India: An Econometric Study of a Metropolis, Sage, New Delhi.
10. Methods and Models in Demography Colin Newell 2003.

**WEBSITES AND e-LEARNING SOURCES:**

1. [www.economicdiscussion.com](http://www.economicdiscussion.com)
2. <https://ocw.mit.edu>
3. <https://academicearth.org/economics>

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Part A Answer five out of eight questions (5x8=40)	Definitions, Descriptions, Concepts Evaluation	40 Marks
Part B Answer any three out of five questions (3x20=60)	Understanding Descriptions/ Problems Application/Analysis/Synthesis/ Evaluation	60 Marks

Part A : Can choose 5 questions, out of 8 covering all the five units.

Part B : Can choose 3 questions out of 5 questions covering all the five units.

## SEMESTER IV

### EMPLOYABILITY SKILLS

Teaching Hours : 30

Credits : 2

Course Code : 3P18/4S/EMS//8P18/4S/EMS

LTP: 2/0/0

#### COURSE OBJECTIVES AND OUTCOME:

- To help the students to prepare CV and equip them to face interview.

#### COURSE OUTLINE:

**UNIT I:** Employability Skills – Verbal Communication – Team Work – Awareness –  
Analysing and investigating – Self Motivation – Drive – Written  
Communication – Planning and Organising – Flexibility – Time Management-  
Preparing a Curriculum Vitae- Key Information. (15Hrs)

**UNIT II:** Reasoning- Cognitive Skills- Retention Skills. (5 hrs)

**UNIT III:** Personality Skills- Expressive Skills- Leadership Skills- Attitude and Aims  
Skills. (10 hrs)

**QUESTION PAPER PATTERN:**

<b>COMPONENT</b>	<b>PATTERN</b>	<b>NATURE OF THE QUESTION</b>	<b>MAXIMUM MARKS</b>
Section A	Answer any ten out of twelve (10x 5=50 marks)	Application / Analysis / Synthesis / Evaluation	50 Marks

Part A : Definition and Descriptions 12 questions, at least two from each unit.