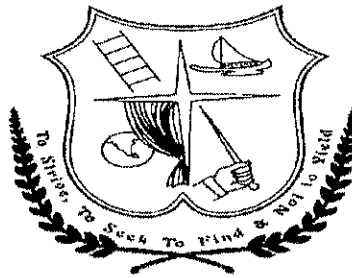


ETHIRAJ COLLEGE FOR WOMEN

(AUTONOMOUS)

Chennai - 600 008



POST GRADUATE & RESEARCH

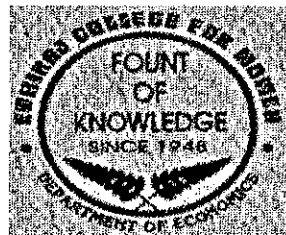
DEPARTMENT OF ECONOMICS

M. A. Economics

Syllabus

Choice Based Credit System

(Offered from the academic year 2015-2016)



DEPARTMENT OF ECONOMICS
REVISED SYLLABUS OF JUNE 2015

Department of Economics is revising syllabi with effect from the academic year 2015-2016 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.
- 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
- 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, passed the examinations of 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

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:

SEMESTER I

Core	Code	Title	H	Credit	CA	End Sem	Total
Core: 1	3P15/1C/MIC	Micro Economic Analysis	6	4	40	60	100
Core: 2	3P15/1C/PUB	Public Economics	6	4	40	60	100
Core: 3	3P15/1C/MAT	Mathematics for Economists	6	4	40	60	100
Core: 4	3P15/1C/STA	Statistics for Economists	6	4	40	60	100
Major Elective: 1	3P15/1E1/FIN	Financial Economics	4	3	40	60	100
Soft Skills	PG15/1S/PEW	Personality Development	2	2			
	Total		30	21			

SEMESTER II

Core: 5	3P15/2C/MAC	Macro Economic Analysis	5	4	40	60	100
Core: 6	3P15/2C/WEL	Welfare Economics	5	4	40	60	100
Core: 7	3P15/2C/OPE	Operations Research	5	4	40	60	100
Core: 8	3P15/2C/STT	Statistics with Computer Applications	5	4	40	60	100
Major Elective:2	3P15/2E2/MAN	Managerial Economics	4	3	40	60	100
Extra Disciplinary Elective Subject:1	3P15/2E/HEA	Health Care Management	4	3	40	60	100
Soft Skills	3P15/2S/INT	Interpersonal Communication	2	2			100
	Total		30	24			

SEMESTER III

Core	Course Code	Course Title	Hrs	Credit	CA	End Sem	Total
Core: 9	3P15/3C/APE	Applied Econometrics	6	4	40	60	100
Core: 10	3P15/3C/MON	Monetary Economics	5	4	40	60	100
Core: 11	3P15/3C/RES	Research Methodology	5	4	40	60	100
Elective 3	3P15/3E3/EAI	Economics of Agriculture and Industry.	4	3	40	60	100
Elective 4	3P15/3E4/EOI	Economics Of Infra structure	4	3	40	60	100
Extra disciplinary	3P15/3E/HOS	Hospital Administration	4	3	40	60	100
Soft Skill	3P15/3S/YMB	Yoga and meditation for better living	2	2			
	Total		30	23			

SEMESTER IV

Core: 12	3P15/4C/GDM	Growth and Development Models	6	4	40	60	100
Core: 13	3P15/4C/INT	International Economics	6	4	40	60	100
Core: 14	3P15/4C/EOH	Economics Of Health	6	4	40	60	100
Core: 15	3P15/4C/PRO	Project	6	4	40	60	100
Elective:5	3P15/4E5/EVE	Environmental Economics	4	3	40	60	100
Soft Skill	3P15/4S/EMS	Employability Skills	2	2			
	Total		30	21			

7. TEMPLATE FOR EVALUATION:

SEMESTER

S.No	Course Code	Course Title	Continuous Assessment				Total	
			Test I	Test II	Quiz/Assignment / Seminar	Participatory Learning		
SEMESTER I								
1.	3P15/1C/MIC	Micro Economic Analysis		10	10	10	10	40
2.	3P15/1C/PUB	Public Economics		10	10	10	10	40
3.	3P15/1C/MAT	Mathematics for Economists		10	10	10	10	40
4.	3P15/1C/STA	Statistics for Economists		10	10	10	10	40
5.	3P15/1E1/FIN	Financial Economics		10	10	10	10	40
SEMESTER II								
1	3P15/2C/MAC	Macro Economic Analysis	10	10	10	10		40
2	3P15/2C/WEL	Welfare Economics	10	10	10	10		40
3	3P15/2C/OPE	Operations Research	10	10	10	10		40
4	3P15/2C/STT	Statistics with Computer Applications	10	10	10	10		40
5	3P15/2E2/MAN	Managerial Economics						
6	3P15/2E/HEA	Health Care Management	10	10	10	10		40

SEMESTER III

1.	3P15/3C/APE	Applied Econometrics		10	10	10	10	40
2.	3P15/3C/MON	Monetary Economics		10	10	10	10	40
3.	3P15/3C/RES	Research Methodology		10	10	10	10	40
4.	3P15/3E3/EAI	Economics of Agriculture and Industry		10	10	10	10	40
5.	3P15/3E4/EOI	Economics Of Infra structure		10	10	10	10	40

6.	3P15/3E/HOS	Hospital Administration	10	10	10	10	40
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Semester IV

1	3P15/4C/GDM	Growth and Developmental Model	10	10	10	10	40
2	3P15/4C/INT	International Economics	10	10	10	10	40
3	3P15/4C/EOH	Economics of Health	10	10	10	10	40
4	3P15/4C/PRO	Project	10	10	10	10	40
5	3P15/4E5/EVE	Environmental Economics	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. QUESTION PAPER PATTERN:

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
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

10. RUBRICS FOR CONTINUOUS ASSESSMENT EVALUATION:

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

SEMESTER – I

MICRO ECONOMIC ANALYSIS

Teaching Hours : 90

Course Code : 3P15/1C/MIC

Credits : 4

LTP : 3/3/0

OBJECTIVE:

To enable students to understand the advanced theories of Consumer Behavior and the non-conventional objectives of the firm.

COURSE OUTLINE:

UNIT I: Definition and Scope of Micro Economics – Nobel Laureate - Richard Stone (1984) Theory of Consumer Behaviour -Hicks Logical Ordering –Friedman – Revealed Preference Theory-Savage Hypothesis – Markowitz Hypothesis-Neumann Morgenstern Index.

20hrs

UNIT II: Theory of Firm – Perfect Competition – Monopoly – Monopolistic Competition – Excess Capacity – Selling Cost and Advertisement (Optimal Advertising)

20hrs

UNIT III: 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-Discrimination.

20hrs

UNIT IV: Objectives of the Firm – Profit Maximisation Theory – Baumol's Maximisation Theory – Limit Pricing – Marris Model- Williamson Model

15hrs

UNIT V : General Equilibrium-Walrasian System.

15hrs

REFERENCE BOOKS

1. Koutsoyiannis, Modern Micro Economics, Macmillan Press, London, 1979
2. Baumol, W.J, Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi, 1982
3. Stiler, Theory of Price, Prentice Hall of India, New Delhi, 1996
4. Weinturb.E.R, General Equilibrium Theory, Macmillan, London, 1974

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – I

PUBLIC ECONOMICS

Teaching Hours : 90

Credits: 4

Course Code : 3P15/1C/PUB

LTP :3/3/0

OBJECTIVE:

To enable students to understand the theoretical analysis of Public Finance and the policy framework of Public Finance in India

COURSE OUTLINE:

UNIT I : Role of Government in Economic Activity- Allocation- Distribution and Stabilization Function- Theories of Public Goods- Externalities- Market Failure .

10hrs

UNIT II : Public Expenditure- Structure and Growth of Public Expenditure (Bowen, Lindhal, Samuelson and Musgrave) - Modern Theories- Wagner's Law- Wiseman and Peacock Hypothesis.

20hrs

UNIT III: Principles of Taxation- Tax Neutrality- Benefit and Ability to Pay Principles- Tax Incidence- Buoyancy and Elasticity of Tax- Taxes of Consumption and Trade- Tax Structure and Growth in India- Nobel Laureates Ronald Coase Theorem (1991).

20hrs

UNITIV : Theory of Fiscal Federalism- Issues of Equity and Efficiency- Transfer Mechanism- Role of Finance Commission.

20hrs

UNIT V : Public Budget- Classification- Union Budget- Budgetary Deficits and its Implications- Fiscal Crisis and Fiscal Reforms in India- Centre – State Financial Relations in India.

20hrs

REFERENCE BOOKS:

1. Amerash Bagchi (2005). Reading in Public Finance, Oxford University Press, New Delhi
2. Musgrave, R.A, and P.B. Musgrave (1976), Public Finance in Theory and, McGraw Hill, Kogakhusa, Tokyo,
3. Rao, M. Govindan Nirvikar Singh (2005), The Political Economy of Federalism in India, Oxford University Press, New Delhi
4. Joseph. E. Stiglitz (2010), Economics of Public Sector, W.W. Noxton and Company

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – I

MATHEMATICS FOR ECONOMISTS

Teaching Hours : 90

Credits: 4

Course Code : 3P15/1C/MAT

LTP : 3/3/0

OBJECTIVE:

To enable students to understand the application of Mathematical Models to Economic Theories and scientific testing of Economic Theories.

COURSE OUTLINE:

- UNIT I:** Matrix Algebra and Linear Models-Transpose and Inverse – Determinants and Rank – Test of Non – Singularity –Inverse Matrix – Cramer’s Rule-Nobel Laureate Wassily Leontief (1973) Input – Output Analysis- Hawkins Simon’s Conditions.
20hrs
- UNIT II:** Differentiation - Partial Differentiation –Second Order – Cross Partial Derivatives- Young’s Theorem
20hrs
- UNIT III:** Applications of Partial Derivatives in Economics – Extreme Values of Function of Two Variables –Cost and Profit Functions-Lagrangian Function – Jacobian and Hessian.
15hrs
- UNIT IV:** Elementary Integration Techniques- Indefinite Integrals- Rules of Operation- Definite Integrals- Economic Applications – Derivation of TC and TR from MC and MR-- Consumer’s Surplus- Producer’s Surplus.
15hrs
- UNIT V:** First Order Difference Equation- General Formula - Stability- The Cobweb Model.
20hrs

REFERENCE BOOKS:

1. Allen R.G.D., *Mathematical Analysis for Economists*, Macmillan and Company Limited, London, 1964.
2. Chiang A.C. *Fundamental Methods of Mathematical Economics*, McGraw Hill Book Company, New York, 1974.
3. Edward. T. Dowling, *Mathematical Economics*, 2nd Edition, McGraw Hill, New York, 1992.
4. Mehta V.L. and Madnani G.M.K, *Mathematics for Economists*, Sultan Chand and Sons, New Delhi, 2005.
5. Stafford L.W.T. *Mathematics for Economists*, The English Language Book Society and Macdonald and Evans Limited, London, 1971.
6. Monga, G.S. *Mathematics and Statistics for Economists*, Vikas Publishing House, New Delhi, 1972.
7. Yamane, Taro, *Mathematics for Economists*, Prentice Hall of India, New Delhi, 1975.
8. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi, 2002.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – I

STATISTICS FOR ECONOMISTS

Teaching Hours : 90

Credits : 4

Course Code : 3P15/1C/STA

LTP: 3/3/0

OBJECTIVE:

To enable students to understand the application of statistical tools in economic analysis.

COURSE OUTLINE:

UNIT I: Extrapolation and Interpolation- Newton's and Lagrange's Methods only.

15hrs

UNIT II: Probability – Theorems- Addition- Multiplication-Conditional Probability – Bayes' Theorem Mathematical Expectation-Theoretical Distribution– Normal-Binomial and Poisson

20hrs

UNIT III: Index Number – Types of Index Numbers – Construction of Consumer Price Index – Wholesale Price and Production Indices in India.

20hrs

UNIT IV: Analysis of Time Series – Measurement of Trend – Semi Averages, Moving Averages- Method of Least Square-Seasonal Variations-Theory of Estimation – Types and Properties

15hrs

UNIT V: Simple Correlation – Partial Correlation - Multiple Correlation and Regression- Multiple Regression.

20hrs

REFERENCE BOOKS:

1. Gupta .S.P. Statistical Methods, Sultan Chand and Sons, New Delhi, 2005
2. Sancheti. DC and Kapoor .VK Statistical Theory-Method and Application, Sultan Chand and Sons, New Delhi, 2005.
3. Shukla .MC & Gulshan.SS, Statistical Theory and Practice. Sultan Chand and Sons, New Delhi, 2000.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – I
FINANCIAL ECONOMICS

Teaching Hours :60

Credits: 3

Course Code : 3P15/1E1/FIN

LTP: 4/0/0

OBJECTIVE:

To enable students to understand the working of Money and Capital Market and the Reforms in the Financial Sector.

UNIT I: Capital Market – Primary and Secondary Market Structure

10hrs

UNIT II : Stock Brokers- Underwriters-Depositories -Credit Rating Agencies.

10hrs

UNIT III: Stock Market System – Trading- Listing – Market Efficiency – Pricing – Insider in India – Investor protection.

15hrs

UNITIV : Derivative Markets – Options and Futures - Derivative Market in India – Recent Trends.

15hrs

UNIT V : Stock Market System in India – NSE – SEBI – OTC Online Trading System – Recent Trends in Capital Market Operations.

10hrs

REFERENCE BOOKS:

1. William F Sharpe and Gordon J Alexander, Investments-4th Edition, Prentice Hall India, 1994.
2. M.Y.Khan, Financial Services, Tata McGraw-Hill Co, New Delhi, 2002
3. D.M.Chance, Introduction to Derivatives and Risk Management, Edition 6m Thomson South Western, London, 2004

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – II

MACRO ECONOMIC ANALYSIS

Teaching Hours : 75

Credits : 4

Course Code : 3P15/2C/MAC

LTP : 3/2/0

OBJECTIVE:

To enable students to understand the advanced theories of Macro Economics.

COURSE OUTLINE:

UNIT I : Nature and Scope of Macro Economics – Consumption Function – Empirical Evidence – Multiplier – Measurement and Applications.

15hrs

UNIT II: Investment – Determinants - MEI – Accelerator – Super –Multiplier.

15hrs

UNIT III: Nobel Laureate James Tobin (1981) Theory of Portfolio Selection Model – Baumol's Inventory Theory – Integration of Monetary and Value Theories –Milton Friedman- Don Patinkin – Real Balance Effect-Monetarism Vs Keynesianism.

15hrs

UNIT IV: General Equilibrium in the Product and Money Market – Nobel Laureate John Hicks (1972) – Hansen Analysis – Derivation of IS & LM Function – Dynamic Adjustment of IS/LM Models.

15hrs

UNIT V: Nobel Laureate Robert Lucas, Jr (1995) Rational Expectation- Lucas Critique-Phillip's Curve- Non- Accelerating Inflation- Role of Unemployment (NAIRU).

15hrs

REFERENCE BOOKS:

1. Shapiro, E., Macro Economic Analysis, Galgotia Publications, New Delhi, 1996.
2. Rinerm D.L., Advanced Macro Economics, McGraw Hill Company Limited, New York, 1996.
3. Surrey, M.J.C. (Ed), Macro Economic Themes, OUP, Oxford, 1976.
4. Koutsoyiannis. A, Macro Economics, Macmillan Press Ltd, London, 1975.
5. Richard.T.Froyen, Macro Economics-Theories and Policies, Pearson.
6. Powelson,J.P. National Income and Flow of Funds Analysis , McGraw Hill Company Limited, New York, 1960 .
7. Duesenberry J.S. Income, Saving,and the Theory of Consumer Behavior . Harvard,1949.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – II

WELFARE ECONOMICS

Teaching Hours : 75

Credits : 4

Course Code : 3P15/2C/WEL

LTP: 3/2/0

OBJECTIVE:

To enable students to understand the fundamentals as well as development in the field of Welfare Economics.

COURSE OUTLINE:

UNIT I : Introduction- Meaning –Positive Economics, Normative – Economic and Welfare Economics – Criteria of Social Welfare –Bentham- Pigou –Cardinalist –Value Judgements.

15hrs

UNIT II : General Equilibrium Model- Pareto-Optimality Criterion -Definition-Marginal Conditions- Consumption- Production- Exchange – Perfect Competition and Pareto Optimality- Exceptions – Corner Solutions.

15hrs

UNIT III: Pareto Optimality of Externalities–Production – Consumption – External Economies and Diseconomies - Market Failure – Indivisibility of Pareto Optimality

15hrs

UNIT IV: New Welfare Economics – Kaldor Compensation Criterion – Utility Possibility Curve- Shortcomings – Scitovsky Double Criteria – The Bergson Social Welfare Function – Nobel Laureate Kenneth Arrow (1972) Theorem- Arrow’s Possibility Theorem.

15hrs

UNIT V : Grand Utility Possibility Frontier – Derivation - The Point of Bliss – Theory of Second Best – Contribution of Nobel Laureate Amartya Sen (1998) to Welfare Economics.

15hrs

REFERENCE BOOKS:

1. Amartya Sen, Choice Welfare and Measurement, Oxford University Press,2002.
2. Kenneth, J. Arrow, Social Choice And Individual Values, John Wiley and Sons, New York 1951.
3. Reder. M.W, A Survey Of Welfare Economics, Columbia University Press, 1947.
4. Winch. D.M, Analytical Welfare Economics, Penguin, 1971.
5. Green H. and V. Walsh, Classical and Neo – Classical Theories of General Equilibrium, Oxford University Press, London,1975.
6. Weintrub, E.R., General Equilibrium Theory, Macmillan, London, 1974.
7. Baumol.W.J (2001), Welfare Economics, Edward Elger Publishing Limited, UK

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – II

OPERATIONS RESEARCH

Teaching Hours : 75

Credits : 4

Course Code : 3P15/2C/OPE

LTP : 3/2/0

OBJECTIVE:

To enable students to understand the essential quantitative tools to make decision making a rational process and the technique of finding optimal solutions in a Dynamic Business Environment

COURSE OUTLINE:

- UNIT I :** Operations Research – Introduction – Meaning – Scope – Models – Limitations – Formulation – Application in Management Decision Making. 15hrs
- UNIT II:** Nobel Laureate Tjalling Koopmans (1975) Transportation Models – Assignment Models – North West Corner Rule Method – Least cost Entry Method – Vogel's Approximation Method 15hrs
- UNIT III:** Decision Theory – Certainty- Uncertainty- Use of Probability – Applications – Bayes' Theorem – Decision Trees. 15hrs
- UNIT IV:** Network Analysis – Construction of the Network – Time and Critical Path Calculations – CPM. 15hrs
- UNIT V:** Queuing Theory – Single Channel-Erlang Model- Number of Customers- – Waiting Line & System – Waiting Time in Line & System-Fundamentals – Uses. 15hrs

REFERENCE BOOKS:

1. Hamdy A. Taha, Operations Research; An Introduction, Prentice Hall of India Private Limited, New Delhi, 2003.
2. Hiller. F and Liberman G.J, Introduction to Operations Research,CBS Publishers and Distributors , New Delhi,1999.
3. Kanthi Swarup, Gupta P.K. and Manmohan, Operations Research, Sultan Chand and Sons, New Delhi, 1992.
4. Kapoor V.K Operation Research, Sultan Chand and Sons, New Delhi .1987.
5. Gupta P.K and Manmohan Problems in Operations Research (Methods and Solutions),Sultan Chand and Sons, New Delhi, 1998.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – II

STATISTICS WITH COMPUTER APPLICATIONS

Teaching Hours : 75

Credits: 4

Course Code : 3P15/2C/STT

LTP : 3/ 2/0

OBJECTIVE:

To enable students to understand the sophisticated methods of statistical analysis and the analysis of mass data and variables using Statistical Package.

COURSE OUTLINE:

UNIT I : Sampling Methods- Hypothesis Testing, Standard Error – Large Sample Test for Two Means and Standard Deviations – Proportion and Confidence Interval.

15hrs

UNIT II : Test of significance for attributes - Small sample test – t - test – Paired t – test – Chi Square test – z - test

15 hrs

UNIT III: F Test- Analysis of Variance One Way - Two Way Classifications-Design of Experiments- Latin Squares.

15hrs

UNIT IV: Univariate and Multivariate Techniques – Factor analysis

15hrs

UNIT V : Introduction-Statistical Data Files- Statistical Workbook – Installation Data Spreadsheet Toolbar – Scroll Sheet – Applications – Diagrams and Graphs, Elementary Concepts in Statistics-Applications in Computer – Correlation, Regression.

(Practical Examination only. No questions for the End Semester Examination)

15hrs

REFERENCE BOOKS:

1. Gupta .S.P. Statistical Methods, Sultan Chand and Sons, New Delhi, 2005.
2. Sancheti. DC and Kapoor .VK Statistical Theory-Method and Application, Sultan Chand and Sons. New Delhi
3. Shukla .MC & Gulshan.SS Statistical Theory and Practice. S. Chand and Co., New Delhi, .2000.
4. Sheridan.J.Coakes, Lyndall Steed.& Peta Dzidic SPSS for Windows,Wiley India Pvt Ltd New Delhi, 2007.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER II

MANAGERIAL ECONOMICS

Teaching Hours : 60

Credits: 3

Course Code : 3P15/2E2/MAN

LTP: 4/0/0

OBJECTIVE:

To enable students to understand the models and Managerial Theories of the Firm and the methods for selecting projects under risk and uncertain conditions.

UNIT I: Definition of Economic Models – Types of Models – Analyzing 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 – Stabilization 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.
10hrs

UNIT V: Economics and Business Forecasting – Economic forecasts – Methods of Economic forecasting – Evaluating forecasts.
10hrs

REFERENCE BOOKS:

1. Brigham, E.F , “ Financial Management Theory and Practice”, 2nd Hinsdale III – the Dryden Press, 1989.
2. Teman, D.R. and Stone Hill A.L., “ Multi National Business Finance”, 5th Ed. Mars; Addison – Wesley, New Delhi 1989.
3. M. Varma , “Materials Management “ Sultan Chand & Sons, Fourth Ed, New Delhi 2003
4. Metha.P.L. ,”Managerial Economics – Analysis, Problems and . Cases”, Sultan Chand &Sons, New Delhi, 2005
5. Idenbaum, M.L (1979), “ Business, Government and the Public, Englewood Cliffs, N.J Prentice Hall, India,

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five units

SEMESTER – II

HEALTH CARE MANAGEMENT

Teaching Hours : 60

Credits: 3

Course Code : 3P15/2E/HEA

LTP: 4/0/0

OBJECTIVE:

To enable students to understand to get an idea about the Health Care Administration and Medical Care.

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 State in Health Care – Privatization and Health Care – Rural Health Care.

15hrs

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

10hrs

UNIT V: First Aid – Need for First Aid – Methods of First Aid – Medical Tourism

15hrs

REFERENCE BOOKS:

1. Abele Smith.B., Introduction to Health; Policy, Planning & Financing, Anmol Publications, New Delhi, 2000.
2. Arun Kumar; Encyclopedia of Hospital Administration and Development.
3. Banerji. The Future of Primary Health Care in India, World Health Forum.
4. Cooper.M.H.&Culyer.A.J., Health Economics, Penguin, New York, 1973.
5. Green Andrew, An Introduction in Health Planning in Developing Countries, Oxford University Press, 1983.
6. Lee.K& Mills. A., Economics Aspects of Health Insurance and Medical Care, Macmillan, London, 1974.
7. Sudhir Dawna, Hospital Administration and Management, Mohit Publications, University Press, 1992.
8. V.K.Nanda, Health Education, Anmol Publications, New Delhi, 2002.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five units

SEMESTER-III

APPLIED ECONOMETRICS

Teaching Hours : 90

Credits: 4

Course Code : 3P15/3C/APE

LTP:3/3/0

OBJECTIVE:

To enable the students to understand the basic concepts of Econometrics and the role of Economic variables in Econometrics.

COURSE OUTLINE:

- UNIT I:** Dummy Variables - ANOVA Models - The ANCOVA Models – Chow Test – Piecewise Linear Regression – Drawing inference 15Hrs
- UNIT II:** Dynamic Econometric Models: Autoregressive and Distributed Lag Models – Estimation of Distributed – LAG Models – The KOYCK Approach to Distributed – Lag Models - Instrumental Variables – Detecting Auto correlation in Autoregressive Models : Durbin h test –The Almon Approach to Distributed – Lag Models – Causality – Granger Causality test 20Hrs
- UNIT III:** The identification problem – Definitions – – Rules for identification – A test of simultaneity – Test for Exogeneity. 15Hrs
- 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 overidentified equation : The Method of Two – Stage least Squares (2SLS). 20 Hrs
- UNIT V:** 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 Hrs

RECOMMENDED TEXT BOOKS:

1. Gujarati, Damodar N, " Basic Econometrics:, 3ed Mc Graw Hill, New York (1995).
2. Klein, Lawrence R: " An Introduction to Econometrics:, Prentice Hall, Inc, Englewood Cliffs, N J. (1962).

REFERENCE BOOKS:

- 1) Anderson, Sweeny, Williams, Statistics for Business and Economics-8th Edition by Thomson Asia Pta, Singapore 2005.
- 2) Damodar N Gujarati,(1999), Essentials of Econometrics-Mc Graw Hill International Edition.
- 3) James H Stick, Mark W Watson, (2005), Introduction to Econometrics-Edition 2005, Pearson Education (Singapore) Pte Ltd, Indian Branch, 482 F.I.E Patparganj, Delhi 110 092, India
- 4) Paul Keynes, Peter J Boettke (2004) The Economic Way of Thinking, David L Prychitko Edition.
- 5) Jeffrey M. Wooldridge, Econometrics, CENGAGE learning, India Edition, 2009.
- 6) Dimitrios Asteriou and Stephen Hall, Applied Econometrics: A Modern Approach, Palgrave Macmillan, 2007.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER-III

MONETARY ECONOMICS

Teaching Hours : 75

Credits : 4

Course Code : 3P15/3C/MON

LTP :3/2/0

OBJECTIVE:

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 Approach – Keynesian Approach – The Post –Keynesian Approach (Milton-Friedman, W.J.Baumol, James Tobin).

15hrs

UNIT II: Monetary Transmission Mechanisms - The Channels of monetary influence – Money Stock – Credit Availability – Aggregate Expenditure – Expectations- Supply of Money- Nature and Function.

15hrs

UNIT III: The Patinkin System – RBE-The Neutrality of Money-Inside Money-Outside Money

15hrs

UNIT IV: Financial Intermediaries –Non Banking Financial Intermediaries (NBFI) –Nature-Functions.

15hrs

UNIT V: Role of Money- Classical- Keynesian –Recent Indian Monetary Policy- Expansionary and Restrictive Monetary Policy, Time Lags in Monetary Policy.

15hrs

RECOMMENDED TEXT BOOKS:

1. Goldfield and Chandler, The Economics of Money and Banking, Harper and Row, Newyork, 2001.
2. David G.Pierce and David.M.Shaw, Monetary Economics, London Butterworths,

REFERENCE BOOKS:

- 1.David G.Pierce and David.M.Shaw, Monetary Economics, London Butterworths, 1974.
- 2.Don Pantinkin, Money, Interest and Prices,An Integration of Monetary and Value Theory. AHarper International Edition.
- 3.Friedman.M.Studies in the Quantity Theory of Money, Chicago, 1956.
- 4.Laidler, D.E.W, Demand for Money;Theory and Evidence, Newyork,1977.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – III

RESEARCH METHODOLOGY

Teaching Hours : 75

Credits : 4

Course Code : 3P15/3C/RES

LTP :3/2/0

OBJECTIVE:

To enable students to have a clear view about conducting Research in a Scientific Manner.

COURSE OUTLINE:

- UNIT I :** Research in Economics - Meaning, Objectives, need and scope- Present position of Research in Economics in India.
10hrs
- UNIT II :** Scientific Attitude in Economic Research - Basic elements of Scientific Method Fact, Conceptual and Operational Definitions, Assumptions, Hypotheses- Primary and Secondary data.
10hrs
- UNIT III:** Research Design - Meaning and types- Surveys and Sampling- Probability and Non-Probability Sampling Logical- Mathematical and Statistical methods- Case study methods.
20hrs
- UNIT IV:** Tools of Research - Participant and Non-Participant Observation- Questionnaire- Interview Schedule-Pilot Study- Pre-Testing.
20hrs
- UNIT V :** Report Writing - Plan of Research Report- Style and mechanics of writing Research Reports.
15hrs

RECOMMENDED TEXT BOOKS :

1. Young, Pauline V. 1977, Scientific Social Surveys and Research, Prentice Hall of India, New Delhi.
2. Goode, 1983, William J and Paul K Hatt, Methods in Social Research, Mc Graw-Hill International Book Co. London.

REFERENCE BOOKS:

1. Bhattacharya S. K., 1990, Methodology in Research
2. Das Gupta, 1995, Methodology in research
3. Ferber and Verdorn, Research Methods in Economics and Business
4. Kurien C. T. (Ed), 1992. A Guide to Research in Economics, Sangam Publishers, Chennai.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five units

SEMESTER – III

ECONOMICS OF AGRICULTURE AND INDUSTRY

Teaching Hours : 60

Credits : 3

Course Code : 3P15/3E3/EAI

LTP :4/0/0

Objective:

To study the overview of agriculture and industry in Indian Economic Scenario

COURSE OUTLINE:

UNIT I: Economics of Rural Infrastructure – Rural transport - Communication – Banking -Rural Social Infrastructure – Education – Health. 10 hrs

UNIT II: Nature extent and trends in Rural Unemployment Agricultural wages in India , Globalisation of Indian Agriculture – Impact of World Trade Organization on Indian agriculture –Agricultural development since 2000. 15 hrs

UNIT III: Industrial Productivity – Measurement – Factors Influencing Productivity – Industrial Location – Factors Influencing Location – Weber’s and Sargant Florence’s Theory – Need for Balanced Regional Development 15 hrs

UNIT IV: Industrial Combinations – Causes – Types – Pools, Cartels, MRTP Commission, MRTP Act - India as a Global Hub – WTO and its impact in Indian Industry. 10hrs

UNIT V : Industrial Financing Corporation of India (IFCI) - State Finance Corporation (SFC) - Industrial Credit and Investment Corporation of India (ICICI) – Industrial Development Bank of India (IDBI) – Industrial Development Since 2000. 10hrs

RECOMMEND TEXT BOOKS:

1. Ahulwalia . I.J. Industrial Growth in India, Oxford University Press , New Delhi
2. Cherunilam . F. Industrial Economics . Indian Perspective – Himalaya Publishing House
3. Dantwala . M.L *et al* (1991) Indian Agricultural Development Since Independence Oxford and IBH New Delhi.
4. Bilgrami S. A.R (2000) Agricultural Economics, Himalaya Publishing House Delhi
5. Rudra . A (1982) Indian Agricultural Economics Myth and Reality, Allied , Publishers, New Delhi

REFERENCE BOOKS:

1. Singh .A And A.N. Sodhu – Industrial Economics, Himalaya Publishing House Mumbai, Government of India , Economics Survey (Annual)
2. Gulati .A and T Kelly 2000 .Trade Liberalisation and Indian Agriculture Oxford University Press . New Delhi

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five units

SEMESTER – III

ECONOMICS OF INFRASTRUCTURE

Teaching Hours : 60

Credits : 3

Course Code : 3P15/3E4/EOI

LTP :4/0/0

Objective:

To enable students to understand the development of infrastructure over the period of time

COURSE OUTLINE:

UNIT I : Infrastructure and Economic development – Infrastructure as a Public Good; Social and Physical Infrastructure; special characteristics of Utilities. The 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 : 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 the 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 and Human Development concept – 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 its financing in India; The issues in education policy – importance of Health and its impact on Economic Development.

10 HRS

UNIT V: Infrastructure in Modern India – Strategies for Infrastructure development – Differences in infrastructure building between China and India - Infrastructure investments in India – Prioritization of Infrastructure sectors for development – Macro perspective of infrastructure development in India – Infrastructure and Plans.

10 HRS

RECOMMENDED TEXT BOOKS

1. Crew, M.A. P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London.
2. Indian Council of Social Sciences Research (ICSSR) (1976), Economics of infrastructure, Vol . VI
New Delhi

REFERENCE BOOKS

1. National Council of Applied Economic Research (NCAER) (1996), Indian Infrastructure Report; Policy implications for Growth and Welfare, NCAER , New Delhi
2. Parikh, K.S. (Ed.) (1997), India Development Report, Oxford, New Delhi
3. Turvey .R. (Ed.) (1968), Public Enterprises, Penguin, Harmondworth.
4. Gayal , S.K (Ed.) (1995) , Public Enterprises , Indian Institute of Public Administration , New Delhi.
5. Panchamukh . P.R (1980), Economic of Health : A Trend Report in ICSSR, A Survey of Research in Economics , Vol . VI , Infrastructure, Allied , Delhi.
6. Tilak, J.B.G. (1994), Education for Development in Asia , Sage Publications, New Delhi.

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COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – III

HOSPITAL ADMINISTRATION

Teaching Hours : 60

Credits : 3

Course Code : 3P15/3E/HOS

LTP : 4/0/0

Objective:

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.

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 – Maintenance of Records- Barriers to Communication.

15hrs

UNIT V : Medical Ethics – A Case Study of Private Hospital Administration (Multi Specialty Hospital-Super Hospital-Corporate Hospitals.) 10 Hrs

RECOMMENDED TEXT BOOKS:

1. Goel .S.L, Health Care Administration Vol I & II, III, Sterling Publications, 1981.
2. La Monic Morgan. P.I., Management in Health Care, Macmillan Press Ltd London 1994

REFERENCE BOOKS

1. Reinke, Health Planning for Effective Management, Oxford University Press, New York, 1988.
2. Syed Amin Tabish, Hospital and Health Services Administration, OUP New Delhi, 2001.
3. Wolper.L.F And Pena.J, Health Care Administration – Principles and Practice, An Aspen Publication, Maryland, U.S.A., 1989

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER III

YOGA AND MEDITATION FOR BETTER LIVING

Teaching Hours : 30

Credits : 2

Course Code : 3P15/3S/YMB

LTP:2/0/0

UNIT I: Yoga – Introduction – Yoga as a Science of Art - The five elements - The steps to be followed - yoga and health benefits (The physical and Mental) – Theoretical insight into 10 asanas – Pranayama techniques – Surya pranayama – Nadishuddi and Bastrika – Diet – Nutrition and Health – Understanding Human anatomy and Acupressure Points
10 Hrs

UNIT II: Meditation – Introduction – Brain wave patterns – The sub Conscious Mind – Chakras – Anthakarna – Koshas – Receiving universal energy –Goal visualization – The physical body and the etheric body – Positive affirmations – The protective shield .- Emotional Balance – The kundalini shakti

10 Hrs

UNIT III: Practice on 10 Asanas and simplified Physical Exercises – Practical sessions on Meditation – Relaxation Techniques and cleansing of chakras – Practical lessons on few Mudras.
10 Hrs

RECOMMENDED TEXT BOOKS

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

Evaluation Pattern

Internals – Practical

Semester – Theory

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER- IV

GROWTH AND DEVELOPMENT MODELS

Teaching Hours : 90

Credits: 4

Course Code : 3P15/4C/GDM

LTP : 3/3/0

OBJECTIVE:

To enable the students to become proficient in NET and SLET Examinations

COURSE OUTLINE:

UNIT I: Introduction - Nobel Laureate Robert Fogel(1993) Economic Growth, Economic Development and Sustainable Development –Vicious Circles of Poverty, Circular Causation– Measurement of Development: HDI and Quality of Life Indices.

15 hrs

UNIT II: Models of Growth - Harrod-Domar Model – Nobel Laureate Robert Solow (1987) Model of Steady -Growth - Joan Robinson's Model – Kaldor's Growth Model 20hrs

UNIT III: Theories of Development - Theories of Economic Development: Adam Smith-Thomas Robert Malthus –Nobel Laureate Arthur Lewis (1979) Model of Development – Ranis and Fei Model of a 'Dual Economy' 20hrs

UNIT IV: Importance of Agriculture, Industry and Trade in Economic Development
Choice of Techniques and Appropriate Technology – Nobel Laureate James M. Buchanan (1986) Cost-Benefit Analysis – International Trade as a 'engine of growth' – Myrdal Theory of Cumulative Causation – Nobel Laureate Kenneth Arrows Model (1972)
20hrs

UNIT V: Planning and Economic Development - Trends in Agricultural Development in India After (2000)- Trends in Industrial Development in India (After 2000)

15hrs

RECOMMENDED TEXT BOOKS:

1. Benjamin Higgins Economic Development, Problems, Principles and Policies, Universal Book Stall,
New Delhi
2. M.L.Jhingan The Economics of Development and Planning, Vrinda Publication, New Delhi

REFERENCE BOOKS

1. Edward Shapiro Macro Economics, Galgotia, New Delhi
2. H.G.Mannur International Economics, Vikas Publishing House, New Delhi

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – IV

INTERNATIONAL ECONOMICS

Teaching Hours : 90

Credits : 4

Course Code : 3P15/4C/INT

LTP : 3/3/0

OBJECTIVE:

To enable students to understand to study the tools and Theories of International Trade and the role of International Organizations on world trade.

COURSE OUTLINE:

- UNIT I:** Theories of International Trade- Stolper- Samuelson Theorem- Metzler Paradox- Nobel Laureate Paul Krugman (2008).
20 hrs
- UNIT II:** Exchange Control Measures – Objectives – Methods – Determination of Equilibrium Exchange Rate – Theories – Mint Par – Purchasing Power Parity – Balance of Payment Theory.
20hrs
- UNIT III:** Balance of Payment – Structure – Disequilibrium – Causes – Remedies– The Absorption Approach – Effects –Foreign Trade Multiplier – Backwash Effects -Dumping- Anti-Dumping methods.
15hrs
- UNIT IV:** Foreign Direct Investment - Types – Merits and Demerits – Role and Functions of Multi-National Corporations – Technology Transfer- Impact of Foreign Capital on India's Economic Development.
15hrs
- UNIT V :** NAFTA- RTAS- RIAS- North- South Dialogue- South- South Dialogue- EEV- Rybczynski.
20hrs

RECOMMENDED TEXT BOOKS

1. Bo Sodersten, International Economics. Macmillan Press Ltd, London, 1985.
2. Chacholiades, International Economics , McGraw Hill Company Limited, New York, 1990.

REFERENCE BOOKS

1. Heller, Robert, International trade; Theory and Empirical Evidence, Prentice Hall, 1973.
2. Charles P. Kindleberger. International Economics Macmillan Press Ltd, London, 1970.
3. Andrew Crockett , International Money, Issues and Analysis, Macmillan Press Ltd, London, 1977.
4. Paul Krugman, Maurice Obstfeld, and Marc Melitz, International Economics: Theory and Policy, Addison-Wesley (Pearson Education Indian Edition), 9th Edition, 2012.
5. Dominick Salvatore, International Economics: Trade and Finance, John Wiley International Student Edition, 10th edition, 2002

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER IV

ECONOMICS OF HEALTH

Teaching Hours : 90

Credits : 4

Course Code : EC15/4C/EOH

LTP :3/3/0

UNIT: I: Health Economics – Importance of Health Economics – The Principle of the Margin – Efficiency and Equity concept of Economic Evaluation - Different types of Health Economic Evaluation

15HRS

UNIT: II : Four Key Health Concepts – Scarcity and Sacrifice Efficiency – Opportunity Cost – utility – concept of Economic Evaluation – Measuring Benefits and Costs – Resource Allocation Decision in Health Care – An Economists approach to getting NHS Budget- at Macro and Micro Levels.

20 HRS

UNIT: III: Demand for Health Theory and Applications: Basic concepts of the Economic Approach – Health Production Function –Effects of Change in prices – Changes in the technical knowledge.

20HRS

Unit: IV: Health Indicators– Birth Rate , Fertility Rate – Morbidity – Mortality – Disability life style status , DALY, QALYS , Sources – WHO – CSO –NFHS

20 HRS

UNIT: V: Health Insurance – Medical Ethics – Medical Tourism

15HRS

RECOMMENDED TEXT BOOKS

1. 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.
2. Volan Brian (1993) Economics Incentives, Health Status & Health Services, Utilisation , Journal Of Health Economics. Vol. 2 .

REFERENCE BOOKS

- 1..V.K.Nanda: Health Education Anmol Publication Pvt. Ltd. 1980
- 2.Syed Amin Tabishi Hospital and Health Services Administration Principle and Practice.. Anmol Publication Pvt. Ltd. 1980
3. Abel-Smith, Brian wolper L.F and Pena.J An Introduction to Health : Policy, Planning And Financing, Longman Group Limited, England-
4. Health Care Administration, 2000. (Principles and Practice) An Aspen Publication, Maryland, USA.
5. Umesh Kher, "The Hospital Wars. "Business Week, December 11. 2006

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER – IV

RESEARCH METHODOLOGY – PROJECT REPORT

Teaching Hours : 90

Credits : 4

Course Code : 3P15/4C/PRO

OBJECTIVE:

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

Environmental Economics

Teaching Hours : 60

Credits : 3

Course Code : 3P15/4E5/EVE

LTP :4/0/0

UNIT-I : Economy – Environment interaction - Market Failure - Property Rights- Theory of Externality and Public Goods – Pigouvian Solution - Coase Theorem.

10 HRS

UNIT-II: Economics of Exhaustible resources – Hotelling’s rule - Solow – Hartwick’s Rule – Competitive Market structures and Optional Extraction Policy.

10 HRS

UNIT-III: Economics of Renewable resources – Characteristics – Growth Functions and Growth Rate – Economic Models of Fisheries - Extinction of Species- Economics of Biodiversity

HRS

15

UNIT-IV: Sustainable Development – Need and importance – Methods of Economic Valuation of environment – Green GNP – Social Capital.

15 HRS

UNIT-V: Environmental policy- Transboundary Environmental (Issues)– Emerging options degradation Third wave of Environmental Policy – Environmental Regulation in India – Economic Taxes and Economic Subsidies – Climate Change policy - Inter Governmental Panel on Climate Change.

10 HRS

RECOMMENDED TEXT BOOKS:

1. Pearce .D and E. Barlier. Blue print for a Sustainable Economy. Earthscan 2000.
2. Murthy M.N (2009) Environment , Sustainable Development and well – being , Valuation , Taxes and Incentives. Oxford university press, Delhi.

REFERENCES BOOKS :

1. Hanley . N. J. F .Shogren and B. white, Environmental Economics in theory and practice.
2. Singh .K and A. Shishodia (2007) Environmental Economics .. Theory and Applications, Sage Publications New Delhi.
3. Bhattacharya, R.N (2001) Environmental Economics An Indian Perspective, Oxford University Press, Delhi.

QUESTION PAPER PATTERN

COMPONENT	NATURE OF THE QUESTION	MAXIMUM MARKS
Part-A Answer five out of eight questions (5x8=40)	Definition, Description, Concept, Evaluation	40 Marks
Part-B Answer any three out of five questions (3x20=60)	Understanding Description/Problem 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 covering all the five unit

SEMESTER IV

EMPLOYABILITY SKILLS

Teaching Hours : 30

Credits : 2

Course Code : 3P15/4S/EMS

LTP: 2/0/0

UNIT I: Preparing a Curriculum Vita 10 HRS

UNIT II: Interview - Dos and Don'ts – Tenets – Mock Interview – Presentation – Practical

10 HRS

UNIT III: Soft skill improvement – Communication Skills – Listening Skills - Build Relationships – Practice Leadership – Taking initiative

10 HRS