

MARWARI COLLEGE, RANCHI
(AN AUTONOMOUS UNIT OF RANCHI UNIVERSITY FROM 2009)



DEPARTMENT OF ECONOMICS
COURSES OF STUDY FOR ECONOMICS HONOURS

Number of Papers: 16

Full Marks: 1600

Number of Semesters: 6

B. A. Hons. Part - I: 400 Marks

B. A. Hons. Part - II: 400 Marks

B. A. Hons. Part - III: 800 Marks

Paper-wise distribution of marks in B.A. ECONOMICS (H)							
Academic year	Semester	Theory paper	Full marks			Pass marks	Duration
			MSE	ESE	TOTAL		
First year	I	1	30	70	100	45	3 Hrs.

		2	30	70	100	45	3 Hrs.
	II	3	30	70	100	45	3 Hrs.
		4	30	70	100	45	3 Hrs.
Second tear	III	5	30	70	100	45	3 Hrs.
		6	30	70	100	45	3 Hrs.
	IV	7	30	70	100	45	3 Hrs.
		8	30	70	100	45	3 Hrs.
Third year	V	9	30	70	100	45	3 Hrs.
		10	30	70	100	45	3 Hrs.
		11	30	70	100	45	3 Hrs.
		12	30	70	100	45	3 Hrs.
	VI	13	30	70	100	45	3 Hrs.
		14	30	70	100	45	3 Hrs.
		15	30	70	100	45	3 Hrs.
		16	30	70	100	45	

PART- I**SEMESTER-I****PAPER-1 (60 lectures)****Instructions to Paper Setter**

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Time: 3 Hrs.

Pass Marks: 45

MICROECONOMICS - 1**MODULE 1: INTRODUCTION**

(5

Classes)

Nature and scope of economics ; methodology in economics ; choice as an economic problem

Concept of demand, supply & market equilibrium

MODULE 2: CONSUMER'S BEHAVIOUR

(20

Classes)

Concept of Utility, Cardinal and ordinal approaches ; Consumer's equilibrium – Marshallian

approach , Hicksian approach , Concepts of price effect, income effect & substitution effect,

Giffen's Paradox ; Elasticity of Demand – Concept and measurement ; Consumer surplus –

Marshallian & Hicksian

MODULE 3: THEORY OF PRODUCTION AND COSTS

(10

Classes)

Concept of Production function , Isoquants , Laws of Variable Proportions & returns to Scale ,

Internal & External Economies and Dis-economies of Scale, Different concepts of Cost – Short

Run and Long Run.

MODULE 4: MARKET STRUCTURE

(25

Classes)

Perfect & Imperfect Markets , Equilibrium of firm and Industry under perfect competition , Market

Equilibrium, Time element in the theory of value , Monopoly and price discrimination ;

Monopolistic competition & Selling costs ; Duopoly and Oligopoly – Kinked demand solution .

BOOKS RECOMMENDED:

1. A. Koutsoyiannis: Modern : Micro Economics
2. S. Chakraborty: Microeconomics
3. H. Varian: Micro economics
4. H.L. Ahuja: Advanced Economic Theory
5. W.J. Baumol: Economic Theory & Operation Analysis
6. N.C. Ray: Microeconomic Theory

PART- I
SEMESTER-I
PAPER-2 (50 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

QUANTITATIVE TECHNIQUES - 1

MODULE -1: Basic concepts (10
Classes)

Variables, sets, functions, elements of Coordinate Geometry – Straight Lines, Parabola, Rectangular hyperbola and circle , Functions & Graphs in Economics .

MODULE 2: Calculus (15
Classes)

Limits and continuity, differentiations of functions – simple and partial, application of derivatives - Maxima and minima – Unconstrained and constrained .

MODULE 3: EXPONENTIAL AND LOGIRITHMIC FUNCTIONS (10
Classes)

Differentiation of logarithmic and exponential function, demand elasticity Relationship between A.R , M.R and elasticity .

MODULE 4: MATRIX AND DETERMINANTS (15
Classes)

Concepts of Determinants, Matrix Inversion, Solution of Simultaneous equations, Cramer's Rules

TEXT BOOKS RECOMMENDED:

- 1) RGD ALLEN - MATHEMATICS FOR ECONOMISTS
- 2) CHIANG A.C. - FUNDAMENTAL METHODS FOR MATHEMATICAL ECONOMISTS

ECONOMICS
PART- I
SEMESTER-II

PAPER – 3 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

MICROECONOMICS - 2

MODULE 1: FACTOR PRICING (25 Classes)

Marginal productivity theory of distribution , Modern theory of wage determination and role of collective bargaining , rent — Ricardian and modern theories , Interests – Classical & Keynesian , Profit — Dynamic theory, innovation theory, risk and uncertainty theory of profit .

MODULE 2: BEHAVIOURAL AND MANAGERIAL THEORY OF FIRM (10 Classes)

Alternative theories of firm — Bain’s limit price theory, Baumols theory of sales maximization .

MODULE 3: WELFARE ECONOMICS (25 Classes)

Concept of welfare, Pigou’s welfare economics, Pareto’s criteria of Welfare, value judgment, concept of social welfare function – Samuelson & Bergeson, compensation principle of welfare – Kaldor & Hicks criteria .

TEXT BOOKS RECOMMENDED:

1. KOUTSOYIANNIS - MODERN MICROECONOMICS
2. S. CHAKRABOURTY - MICROECONOMICS
3. W.J. BAUMAL- ECONOMIC THEORY AND OPERATION ANALYSIS
4. N.C RAY- MICROECONOMIC THEORY

ECONOMICS
PART- I
SEMESTER-II

PAPER – 4 (65 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

QUANTITATIVE TECHNIQUES – II

Module 1: Introduction to Statistics

NUMBER OF CLASSES

10

Basic concepts: Population, Sample. Parameter, Frequency Distribution, Cumulative frequency; Graphic and diagrammatic representation of data. Techniques of data collection; primary and secondary data.

Module 2: Central Tendency and Dispersion

NUMBER OF CLASSES

20

Measures of central tendency; Mean, Median, Mode, Geometric mean and Harmonic mean .
Measures of dispersion; Ranges Mean Deviation, Standard deviation, Coefficient of variation, Quartile deviation, Moments, Skewness and Kurtosis

Module 3: Correlation and Regression

NUMBER OF

CLASSES-15

Concept of Correlation; Simple, Coefficient of correlation — Karl Pearson and Rank Correlation, Partial and Multiple correlation Analysis, Regression analysis — Estimation of regression line in a bivariate distribution, OLS method, Interpretation of regression Coefficients.

Module 4: Time Series and Index Numbers

NUMBER OF

CLASSES-20

Time series analysis — Concept and components, Determination of regular, trend and seasonal and cyclical indices , Index numbers — Laspeyer's, Paasch & s and Fisher Tests, Construction of Cost of Living Index, Index Number in India

B. A. PART – II
SEMESTER- III
 COMPULSORY PAPER
PAPER – 5 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

MACRO ECONOMICS – I

Module 1: National Income and Social Accounts **(10 Classes)**

Concept and measurement of National Income; National income identities with government and international trade .

Module 2: Rate of Interest **(10 Classes)**

Classical, Neo-classical & Keynesian theories of interest.

Module 3: Output and Employment **(25 Classes)**

Say's law of markets , the classical theory of employment ; Keynes' objection to the classical theory ; Aggregate demand and aggregate supply functions; the principle of effective demand ; Consumption function – Average & Marginal Propensity to consume, factors influencing consumption spending ; the investment multiplier and its effectiveness in LDCs , Theory of investment – Autonomous and induced investment, Marginal efficiency of capital.

Module 4: Trade Cycles **(15 Classes)**

Nature & characteristics ; Hawtrey's Monetary Theory ; Hayek's over investment theory ; Keynes' view on trade cycles ; Control of trade cycles.

Textbooks Recommended:

1. Macroeconomics: Dornbusch, Fischer and starts, (TMH, N. Delhi)
2. Macroeconomics: N. Gregory Mankiw
3. Powelson, JPC (1960)-National Income and Flow of Funds Analysis (Mc Graw Hill, Newyork)
4. T.T. Sethi: Mudra, Banking and Antarrashtriya Vyapar

B. A. PART – II
SEMESTER- III
 COMPULSORY PAPER
PAPER – 6 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

INTERNATIONAL ECONOMICS

Module 1: Trade Theories (15
Classes)

Importance of the study of international economics, inter-regional And international trade, comparative cost theory of inter-national trade, Heckscher - Ohlin theory of trade .

Module 2: Gains from Trade (15
Classes)

Gains from trade – their measurements and distribution , trade as an engine of economic growth , concept of Terms of trade, factors influencing the terms of trade .

Module 3: Tariffs and Quotas (15
Classes)

Types of tariffs and quotas and their impact in partial equilibrium analysis, free trade vs protection and its policy implication with India Concept of optimum tariff .

Module 4: Balance of Payment (15
Classes)

Concept of balance of trade and balance of payments, causes of disequilibrium in the balance of payment and methods of its correction, Concept of foreign trade multiplier.

TEXT BOOKS RECOMMENDED:

1. SORDERSTON – INTERNATIONAL ECONOMICS
2. SALVATOR – INTERNATIONAL ECONOMICS
3. SUDAMA SINGH – INTERNATIONAL ECONOMICS

ECONOMICS
B. A. PART – II
SEMESTER – IV
 COMPULSORY PAPER
PAPER – 7 (60 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

MACRO ECONOMICS – II

Module 1: Value of Money and Inflation **(25 Classes)**

Money – meaning, functions & classifications; Role of money in capitalist, socialist and mixed economies; Quantity theory of money – cash transactions and cash balance approaches ; The Keynesian approach ; Inflation, deflation and reflation – definition, types, causes and effects of inflation on different sectors of the economy; Demand-pull and cost-push inflation; Measures to control inflation .

Module 2: Commercial Banking **(15 Classes)**

Meaning and types; Functions of commercial banks ; The process of credit creation – purpose & limitations ; Evolution of commercial banking in India after Independence ; Recent reforms in banking sector in India .

Module 3: Central Banking **(20 Classes)**

Functions of a central bank ; Quantitative and qualitative methods of credit control – bank rate policy, open market operations, variable reserve ratio and selective methods ; Role and functions of the Reserve Bank of India ; Objectives and limitations of monetary policy with special reference to India ; Functions of IMF & IBRD.

Text Books Recommended:

1. Money, Institutions and Policy - S.B. Gupta.
2. Keynes and Post Keynesian Economics - R.D. Gupta,
3. Mudra Ka Parichaya - R.N Tripathy.
4. Maudrik Arthashastra - H.N.P.S Surnan.
5. Mudra Banking and Antarrashtriya Vyapar - T.T. Sethi
6. Options, Futures and Other Derivatives - John C. Hull
7. Macroeconomics - H.L. Ahujja

References:

1. De Cock, M.H. - Central Banking, Staples Press, London.
2. Sayers', R.S. - Modem Banking (OUP, Delhi),
3. Harris, C.L. - Money and Banking.

ECONOMICS
B. A. PART – II
SEMESTER – IV
 COMPULSORY PAPER
PAPER – 8 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

PUBLIC ECONOMICS

Module 1: Nature and Scope of Public Finance (10 Classes)

Meaning and scope of public' finance ; Distinction between private and public finance ; Public goods vs. private goods ; The Principle of maximum social advantage .

Module 2: Public Expenditure (10 Classes)

Meaning; classification and principle of public expenditure ; Canons and effects of public, expenditure ; Trends in public expenditure and causes of growth of public expenditure in India .

Module 3: Taxation (30 Classes)

Sources of public revenue ; Taxation - Meaning, canons and classification of' taxes ; Principles of Taxation -- The benefit and ability-to-pay approaches ; Theory of shifting and incidence of taxes ; Effects of taxation ; taxable capacity, Characteristics of a good tax system .

Module 4: Public Debt (10 Classes)

Need or Objectives of Public Debt ;Sources of public borrowing ; Effects of public debt ; Methods of debt redemption.

Text Books Recommended:

1. Musgrave & Musgrave: Public Finance in Theory and Practice, McGraw Hill, Tokyo.
2. Dalton: Public Finance.
3. Tyagi: Public Finance
4. Bhatia, H.L.: Public Finance.

B. A. PART - III
SEMESTER - V
COMPULSORY PAPER
PAPER – 9 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: $30 + 70 = 100$

Pass Marks: 45

ECONOMIC GROWTH & DEVELOPMENT

Module 1.

(20 Classes)

Concept of Economic growth and development , Factors affecting economic growth- Economic & non – economic factors, Growth models – Harrod and Domar; Instability of equilibrium – Neo-classical growth models – Solow & Meade, Mrs. Joan Robinson's growth model.

Module 2

(10 Classes)

Measurement of economic development - per capita income, inequality of income and wealth, PQLI, Human development index and quality of life index and other indices of development .

Module 3.-

(20 Classes)

Meaning of an under-developed country, main characteristics of under- developed countries with special reference to India., Perpetuation of Under-development – problems & obstacles of economic development, Vicious circle of poverty , Concept of intellectual capital formation – food security, education, health & nutrition, Theory of Demographic transition.

Module 4.

(10 Classes)

Theories of development - Adam Smith, Ricardo, Karl Marx; Schumpeter.

Text Books Recommended:

Meier, G.M.: Leading Issues in Economic Development (OUP, N. Delhi)

Chakravarti, S: Alternative Approaches to the Theory of Economic Growth (OUP, N. Delhi)

B. A. PART - III
SEMESTER - V
 COMPULSORY PAPER
PAPER – 10(60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

ECONOMICS OF SOCIAL SECTOR AND ENVIRONMENTAL ISSUES-1

Module 1: Environmental Issues **(8 Classes)**

Elementary ecology, entropy law, laws of thermodynamics, two-way environment-economy linkages;

Module 2: Basic Concepts **(12 Classes)**

Basic concepts - elements of capital theory, externality, public goods, uncertainty and irreversibility, renewable and non-renewable resources, common property resources, social cost-benefit analysis.

Module 3: Environmental Degradation **(15 Classes)**

Causes and effects of environmental degradation, degradation of land, forest and natural resources, pollution from energy use – effects on health, land, water and air; Valuation of environmental damages/benefits, direct and indirect methods; Pollution prevention, control and abatement.

Module 4: Environmental Policies **(25 Classes)**

Legal institutions and instruments; Command and control vs. market-based instruments; taxes vs. permits; direct and indirect instruments of pollution control; Pollution control system and policy in India – Legislation, standards and enforcement; Concepts and indicators of sustainable development. Environmental accounting.

Books Recommended:

1. Ahmed M. Hussain: Principles of Environmental Economics
2. Pearce, David: Environmental Economics
3. Bhattacharya, R.N: Environmental Economics
4. Karpagam, (2001): Environmental Economics. A Text Book. Sterling Publishers, Pvt. Ltd. New Delhi.
5. Nick Hanby, Jason F. Shagren (1999): Environmental Economics. In theory and Practice. Macmillan Press Ltd, Delhi.
6. Robert N. Stavins, (1999): Economics of the Environment. Selected! (4 th Edition), W.W Norton and company, New York.
7. Barry C. Field & Martha K. Field, (2002): Environmental Economics. An Introduction (Third Edition), McGraw Hill Irwin, Boston.
8. B.K. Sharma & H. Kaur (1997): An Introduction to Environmental Pollution, Goel Publishing House, Meerut.

B. A. PART - III
SEMESTER - V
 OPTIONAL PAPER
 GROUP - A
PAPER – 11(60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

MATHEMATICAL ECONOMICS - 1

Module 1: Quantitative Methods

(20 Classes)

Differentiation of more than two variables and its application in Economics, differentials and differentiation, concept of homogenous and homothetic function, Difference and differential equations, integral calculus .

Module 2: Consumer Theory

(25 Classes)

Utility function; budget line; Constrained optimization; Consumer's equilibrium; Income effect; substitution effect and price effect; Slutsky equation; Derivation of general and compensated demand function, Elasticity of demand; Consumer's surplus.

Module 3: Theory of Production

(15 Classes)

Properties of production function - Homogeneous and non-homogeneous; Cobb-Douglas, CES, Returns to scale; Technology progress and production function; Choice of optimal combination of factors of production; Cost and revenue functions; Derivation of cost curves; Relation between total, average and marginal cost and revenue; Producer's surplus; Production possibility curve; Adding up theorem.

References:

1. Allen R.G.D (1974): Mathematical Analysis for Economists Macmillan Press, London.
2. Chiang, A.C. (1986): Fundamental methods of mathematical economics (Third Edition) McGraw Hill, N. Delhi.
3. Hands, d.W. (1991): Introductory Mathematical Economics, D.C. Heath.
4. Henderson and R.E. Quandt: A Mathematical Approach
5. Gravel and Rees: Microeconomic Theory.

B. A. PART - III
SEMESTER - V
 OPTIONAL PAPER
 GROUP - B
PAPER – 11 (60 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

AGRICULTURAL ECONOMICS - I

Module 1: Rural Economy of India (15 Classes)

Place of agriculture in rural economy; Composition of the Indian rural economy, farm sector, and non-farm sector; Diversification of agriculture: Agriculture and allied activities (fisheries, horticulture, and floriculture); Forestry in India: its growth, problems and state policies; Cattle wealth of India and dairying; Rural Industrialization: Food processing industries and agro-based industries, development of rural infrastructure.

Module 2: Development of Agriculture (20 Classes)

Role and importance of agriculture in Economic Development: linkages between the agricultural sector and the non-agricultural sector, changing nature of linkages; Agricultural resources in India: land utilization and cropping pattern; Irrigation in India; Command area development and flood control; Trends in agricultural growth and agricultural productivity; Pattern of Agricultural development: regional variation.

Module 3: Agrarian Relations and Land Reforms in India (10 Classes)

Agrarian Relations: historical evolution and land reforms programme during 1950s and 1960s; Land Reforms: programme and performance during 1970s and after.

Module 4: Technological Change in Agriculture (15 Classes)

Technology in agriculture: traditional techniques and practices, HYV Seeds – fertilizers, water technology (green revolution); Sustainable agriculture; Emerging trends in agricultural technology; Dry land farming, use of bio-technology techniques.

Text Books:

1. Sadhu A.N and J. Singh: Agricultural Problems in India.
 2. Bilgramy, S.A.R.: An Introduction to Agricultural Economics
 3. Soni, R.N: Leading Issues in Agricultural Economics
 4. P.L. Sankhayan, (1988): Introduction to the economics of Agricultural Production, Prentice Hall of India Pvt. Ltd. New Delhi.
 5. K.K. Markande & R.K. Kulshrestha, (1998): Agriculture Economics, Aman Publishing House, Meerut.
 6. S, S. Reddy & P. Raghu Ram, (2004): Agricultural Economics, Oxford & IBH Publishing Co. Pvt. Ltd. Delhi.
- N.L. Agrawal, (2003): Bhartiya Krishi ka Arthtantra, Rajasthan Hindi Granth Academy, Jaipur.

B. A. PART - III
SEMESTER - V
OPTIONAL PAPER
GROUP - A
PAPER – 12 (60 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

ECONOMETRIC METHODS - I

Module 1: Introduction

(10 Classes)

Definition and scope of econometrics; The methodology of econometric research; Specification and estimation of an econometric model; Basic concepts of estimation; Desirable properties of estimators; Unbiasedness, efficiency, consistency and sufficiency.

Module 2: Simple Regression Analysis and Theoretical Distribution

(25 Classes)

Statistical vs. deterministic relationships; Correlation and regression; Coefficient of determination; Estimation of an equation; Theoretical frequency distribution and application of binomial, poisson and normal; Testing of hypothesis; Type - I and Type - II errors; Standard errors, Tests based on Z, t and Chi-square statistics.

Module 3: Estimation Theory

(25 Classes)

Ordinary least squares (OLS) method – Assumptions; Gauss-Markov Theorem; Testing of regression coefficient; Test for regression as a whole, Coefficient of determination, F-test,

Text Books Recommended:

1. Maddala, G.S.: Introduction to Econometrics, McGraw Hill, New York.
2. Hooda, R.P.: Statistics for Business and Economics, Mc Millan, New Delhi.

Reference:

Gujrati, D.: Basic Econometrics (third edition), McGraw Hill, New York.

B. A. PART - III
SEMESTER - V
OPTIONAL PAPER
GROUP - B
PAPER 12 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

DEMOGRAPHY- I

Module 1: Introduction

(20 Classes)

Population study and demography: its relation with other disciplines; Theories of Population – Malthus, Optimum theory of population, and theory of demographic transition; Historical evidence of population growth in developed and developing countries.

Module 2: Sources of Demographic Data in India

(20 Classes)

Sources of Demographic data in India: Census – Civil registration system and demographic surveys; National Family Health Survey I and 2 - their relative merits and demerits.

Module 3: Techniques of Analysis I

(20 Classes)

Crude birth and death rates, age specific birth and death rates, standardized b and death rates – Study of Fertility: Total fertility rate, gross reproduction rate, and net reproduction rate.

Text Books Recommended:

1. Agarwal U.D. (1999), Population Projections and Their Accuracy, B.R. Publishing Corporation, New Delhi.
2. Bhende, A.A. and T.R. Kanitkar (1982), Principles of Population Studies, Himalaya Publishing House, Bombay.
3. Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.

ECONOMICS
B. A. PART - III
SEMESTER - VI
 COMPULSORY PAPER
PAPER- 13 (60 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

INDIAN ECONOMIC PROBLEMS

Module 1: **(10 Classes)**

Basic Features of Indian Economy- poverty, unemployment, problem of over-population.

Module 2: **(10 Classes)**

Trends in agricultural production and productivity, Factors determining productivity ; Land Reforms; New agricultural strategy and green revolution ; Rural credit.

Module 3: **(15 Classes)**

Industrial policy of 1948, 1956 and 1991 ; Industrial licensing policy – MRTP Act, FERA and FEMA ; Growth and problems of small scale industries ; Role of public sector enterprises in India's industrialization .

Module 4: **(15 Classes)**

Planning in India- objectives, strategy, briad achievements and failures ; Current Five Year Plan- objectives, allocation & targets ; New Economic Reforms- liberization, privatization & globalization ; Rationale behind economic reforms.

Module 5: **(10 Classes)**

Basic features of Jharkhand economy , Demography, Agriculture, Industries, state economic policy .

Text f Books Recommended:

1. Dutt, R. and K.P.M. Sundharam: Indian Economy
2. Mishra S.K. and V.K. Puri: Indian Economy
3. Government of India: Economic Survey
4. Mishra and Puri: Bhartiya Arthashastra

ECONOMICS
B. A. PART - III
SEMESTER - VI
 COMPULSORY PAPER
PAPER – 14 (60 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., 5 x 14 = 70.

Full Marks: 30 + 70 = 100

Pass Marks: 45

ECONOMICS OF EDUCATION AND HEALTH

Module 1: Economics of Education

(35 Classes)

Human capital - Human capital vs. physical capital, components of human capital; Determinants of demand for education; Costs of education- Expenditure on education, private costs & social costs and wastage and stagnation; Benefits of Education- Direct and Indirect benefits, Private and social benefits; Educational planning & economic growth; Educational financing- resource mobilization & utilization, pricing & subsidies & effects of educational financing on income distribution; Education & labour market- effects of education , ability and family background on earnings, poverty & income distribution, education & employment; Economics of educational planning in developing countries with special emphasis on India.

Module 2: Health Economics

(25 Classes)

Determinants of health- poverty, malnutrition, and environmental issues ; Economic dimensions of health care- demand & supply of health care; Appraisal of health care financing; The concept of human life value; Benefit-cost and cost effectiveness approaches; Inequalities in health and class and gender perspectives; Institutional issues in health care delivery.

References:

1. BERMAN, P: Health Sector Reform in Developing Countries; Making Health Development Sustainable
2. Blaug, M: Introduction to Economics of Education

ECONOMICS
B. A. PART - III
SEMESTER - VI

OPTIONAL PAPER

GROUP - A

PAPER – 15 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

MATHEMATICAL ECONOMICS – II

Module 1: Market Structure / Pricing

(25 Classes)

Concept of equilibrium; Equilibrium of the firm under perfect competition, monopoly, price discrimination, monopolistic competition; Subsidies and taxes; Economies of scale, Market equilibrium; Economic interpretation of time lag in function.

Module 2: Input-Output Analysis and Linear Programming

(25 Classes)

Input-output analysis; The simple closed and open model; Linkages, concepts and measurement; Hawkin-Simon conditions, Linear programming – Basic concepts, primal and dual; Graphic and simplex method.

Module3; Game Theory

(10 Classes)

Definition and scope of game theory, simple pay off matrix and mixed strategy of game; saddle point solution; Prisoner's dilemma; two-person-two-commodity and zero-sum game.

References:

1. Allen R.G.D (1974) Mathematical Analysis for Economists Macmillan Press London.
2. Chiang, A.C. (1986), Fundamental methods of mathematical economics (Third Edition) McGraw Hill, N. Delhi.
3. Colell, A. Mas. et.al. (1991), Micro Economic Theory, Harvard University Press, Cambridge, Mass.
4. Hands, d.W. (1991), Introductory Mathematical Economics, D.C. Heath.
5. Henderson & Quandt; Microeconomics - A mathematical approach.

ECONOMICS
B. A. PART - III
SEMESTER - VI
OPTIONAL PAPER
GROUP - B
PAPER – 15 (60 lectures)
Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

AGRICULTURAL ECONOMICS - II

Module 1: State and Agriculture – I **(25 Classes)**

Agricultural finance in India: Importance; types of requirements; sources: non-institutional and institutional: existing rural credit delivery system (multi-agency approach); Agricultural marketing in India: markets and marketing functions; channels of distribution of various commodities; regulated markets and warehousing; Role of cooperatives in Agriculture,.

Module 2: State and Agriculture – II **(25 Classes)**

Agricultural Planning in India: decentralized planning and indicative planning; Incentives in agriculture: price and non-price incentive; input subsidies; Agricultural Price Policy (APP): Nature of demand and supply of agricultural products: Need for state intervention; objectives of APP; instruments and evaluation; Food security in India and public distribution system.

Module 3: 50 Years of Indian Agriculture **(10 Classes)**

An overview of agricultural development; Under-employment and unemployment in the rural economy; Globalization of Indian Economy and its effects on Indian agriculture.

Text books:

1. Sadhu, A.N and J. Singh: Agricultural Problems in India.
2. Bilgramy, S.A.R. An Introduction to Agricultural Economics
3. Soni, R.N: Leading Issues in Agricultural Economics

ECONOMICS
B. A. PART - III
SEMESTER - VI

OPTIONAL PAPER

GROUP - A

PAPER – 16 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

ECONOMETRIC METHODS – II

Module 1: Problems in OLS Estimation

(20 Classes)

Problems of heteroscedasticity; Auto correlation (first order); Multicollinearity – their consequences, tests and remedies,

Module 2: Lag Models and Summary Variables

(22 Classes)

Lags in econometric models – Concepts, Koyck model; Partial adjustment and adaptive expectation models; Summary variables; qualitative data; Seasonal analysis; Use of dummy variables for pooled data; Proxy variable – Concept and uses.

Module 3: Application of Econometric Methods

(18

Classes)

Estimation of demand and supply functions, production and cost functions and consumption function and investment function.

Text Book Recommended:

1. Maddala, G.S.: Introduction to Econometrics, McGraw Hill, New York.
2. Hooda, R.P.: Statistics for Business and Economics, Mc Millan New Delhi.

Reference:

1. Gujarati, D.: Basic Econometrics (third edition), Mc Graw Hill, New York.

ECONOMICS
B. A. PART - III
SEMESTER - VI

OPTIONAL PAPER

GROUP - B

PAPER – 16 (60 lectures)

Instructions to Paper Setter

All together Ten Questions to be set, out of which any five to be answered, i.e., $5 \times 14 = 70$.

Full Marks: 30 + 70 = 100

Pass Marks: 45

DEMOGRAPHY - II

Module 1: Techniques of Analysis II

(15 Classes)

Study of marital status – Life table: meaning of its columns and its uses – Reproductive and child health in India – Temporal and spatial variation in sex ratios.

Module2: Population Projection

(15 Classes)

Techniques of population projection – Concept of stationary, stable and quasistationary population – Aging of population in India – Changes in family structure. and old age security.

Module 3: Population Policy

(30 Classes)

Salient features of Population Censuses of 1971 1981, 1991 and 200 1; Evolution of population policy in India, Shift in policy focus, from population control to family welfare and to women empowerment, Demographic status and household behaviour – Education, Women's autonomy and fertility – Population, health, poverty and environment linkage in India; The New Population Policy.

BASIC READING LIST:

1. Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
2. Bose A. (1996), India's Basic Demographic Statistics, B.R. Corporation, New Delhi.
3. Census of India, Government of India, Various Reports, New Delhi.
4. Chaubey, P.K. (2000), Population Policy in India, Kanishka Publications, New Delhi,
5. Misra, B.D. (1980), An Introduction to the Study of Population, South Asian Publishers, New, Delhi.
6. Srinivasn, K. (Ed.) (1909), Population Policy and Reproductive Health Hindustan Publishing Corporation, New Delhi.