

The University of Burdwan
Syllabus for B.A./B.Sc. Honours
(1+1+1 Pattern)
in
Economics
with effect from 2008-2009

Syllabus for B.A. / B.Sc. Honours (1+1+1 Pattern) in Economics

Part-I

Paper – I - First Half: Microeconomic Theory - I

Paper – I - Second Half: Macroeconomic Theory – II

Paper – II - First Half: Mathematical Economics

Paper – II - Second Half: Indian Economic History

Part-II

Paper – III - First Half: Microeconomic Theory – II

Paper – III - Second Half: Macroeconomic Theory – II

Paper – IV - First Half: Statistical Methods – I

Paper – IV - Second Half: Selected Features of Indian Economy

Part-III

Paper – V - First Half: International Economics

Paper – V - Second Half: Money and Capital Market

Paper – VI - First Half: Development Economics

Paper – VI - Second Half: Marxian Economics

Paper – VII - First Half: Statistical Methods – II

Paper – VII - Second Half: Entrepreneurship Development & Decision Theory

Paper – VIII - First Half: Indian Economic Planning

Paper – VIII - Second Half: Public Economics and Environmental Economics

All Half-papers are of 50 Marks each with approximately 70 Lectures

Syllabus for B.A./B.Sc. Honours (1+1+1 Pattern) in Economics

Part-I Paper – I First Half

Microeconomic Theory - I

Full Marks: 50

Number of Lectures: 70

- 1. General Concept: (10 Lectures)**
 - Distinction between Microeconomics and Macroeconomics – concept of different Microeconomic units - commodity, consumer, firm, industry, market – concepts of equilibrium, - statics, dynamics, comparative statics and stability of equilibrium.
- 2. Theory of Demand: (20 Lectures)**
 - The Marshallian Approach: measurement of utility – derivation of demand curve – consumer's surplus.
 - Indifference curve approach: indifference curve and its properties, the consumer-pathological cases – price consumption curve and income consumption curve, - price effect, income effect and substitution effect, derivation of demand curve – Giffen paradox – market demand.
 - The Revealed Preference approach, derivation of demand function from Revealed Preference approach.
 - Elasticities of demand – price, income and cross elasticities, relation between price elasticity of demand, price and marginal revenue, relation between price elasticity and total expenditure.
- 3. Theory of Production and Cost. (20 Lectures)**
 - Production function: the neo – classical production function – relation between total, Average and marginal productivities – law of variable proportions – the fixed coefficient Production function.
 - Iso-Profit curve and Iso-cost line: definition of Iso- Profit curve, economic region of production, marginal rate of technical substitution, equilibrium of the producer - constrained output maximization and constrained cost minimization, output and substitution effects – elasticity of substitution – expansion path, returns to scale - homogeneous and homothetic production function, the Cobb Douglas and CES production function.
 - Cost function: different concepts of costs, short run cost analysis and long run cost Analysis- relation between the expansion path and cost function – total, average and Marginal cost curves – long run cost curves as envelope of short run cost curves.

4. Theory of perfect competition: (20 Lectures)

- Perfect competition and pure competition—Short run and long run equilibrium of a competitive firm- Short run and long run supply curves—Long run equilibrium of the competitive industry- price determination in a competitive industry- existence, uniqueness and static stability of equilibrium –long run supply curves of the industry-effects of external economies and diseconomies – effect of change in cost – effect of imposition of tax- effect of price control.

References:

1. Samuelson and Nordhaus : Economics
2. Koutsoyiannis : Microeconomic Theory
3. Ferguson and Gould :Microeconomic Theory
4. H. Varian : Intermediate microeconomics
5. Henderson and Quandt : Microeconomic Theory

Second Half

Macroeconomic Theory - II

Full Marks: 50

Number of Lectures: 70

1. Introduction: (8 Lectures)

- Scope and nature of Macro Economics with emphasis on macroeconomic problems and policies – Targets & Instruments of macroeconomic policy etc.

2. The National Income and Products Accounts: (12 Lectures)

- Definition, Concepts and Measurement of GNP, NNP, GDP, NDP, NI, DI – The flow of product method and the flow of expenditure method; Concept of GDP deflator and Price Indices
- Interrelation between measures of National Income in the absence and presence of Governmental sector and International Transactions
- The Accounting Identity of Saving and Investment
- Problems of using National Income as a measure of Economic Welfare.

3. The Simple Keynesian Model of Income Determination: (15 Lectures)

- Keynesian Consumption Function and its properties – Factors affecting Consumption Expenditure – Saving Function & its properties;
- The divergence between investment and saving motivations
- Determination of National Income – nature of equilibrium – unemployment, full employment and inflation – stability of equilibrium

- Comparative static analysis – the Multiplier analysis with and without governmental sector – Investment Multiplier, Government Expenditure Multiplier, Balanced Budget Multiplier; Limitations of the multiplier analysis.
- The Paradox of Thrift

4. Introducing the Money Market (15 Lectures)

- Three motives of holding money - Transactions, Precautionary and Speculative motives
- Keynesian Liquidity Preference Theory - Indeterminacy of Rate of Interest in the Liquidity Preference Theory - the Liquidity Trap
- The Inventory Theoretic Approach to Transaction Demand for Money – Baumol and Tobin
- Supply of Money - Credit creation by commercial banks – Money Multiplier - Interest sensitivity of Money Supply.

5. Interaction between Commodity Market & Money Market: (20 Lectures)

- Construction of the IS and LM curves – Determination of equilibrium value of Rate of Interest and National Income – Stability of equilibrium
- Comparative static analysis of shifts in Saving, Investment, Government Expenditure, Taxation, Money Demand, and Money Supply Schedules
- Relative effectiveness of Monetary and Fiscal policies in terms of IS-LM model.

Basic Readings:

Rowan, D.C – Output, Inflation & Growth
 Mankiew – Macroeconomics
 Sikdar, S – Principles of Macroeconomics, OUP
 D'souza, Erol - Macroeconomics
 Lipsey – An Introduction to Positive Economics
 Samuelson and Nordhaus – Economics 13-th ed. Ch.9

Advanced Readings:

Ackley (2nd ed.) – Macroeconomic Theory and Policy
 Branson – Macroeconomic Theory and Policy
 Dornbusch and Fisher: Macroeconomics
 Froyen - Macroeconomics
 Levacic – Macro Economics
 Mueller: (ed) Readings in Macroeconomics

Paper – II
First Half

Mathematical Economics

Full Marks: 50

Number of Lectures: 70

- 1. Some Basic Mathematical Concepts for Economics: (10 Lectures)**
 - Formulae of Sum of AP and GP Series – Equations of Straight line, circle, Parabola and Rectangular hyperbola – Their graphical representations - concept of function – Linear quadratic and cubic functions - Homogeneous function - Formulae of Basic log operations- Exponential function–Concept of limit and continuity- Concept of differentiation – Rules of differentiation –partial differentiation- Euler’s theorem (statement only).
- 2. Application in Economics (8 Lectures)**
 - The demand function – Elasticity of demand – Marginal revenue – Marginal utility – Relation between average revenue and marginal revenue – Slope and curvature of indifference curve and Isoquant – Marginal product – Elasticity of factor substitution – Returns to scale – Properties of Cobb – Douglas production function – Product exhaustion theorem
- 3. Maxima and Minima (Extrema) of Functions (10 Lectures)**
 - Relative (local) and absolute (global) extrema – The first derivative test for local extrema – The second derivative test for global extrema – Convexity and concavity of functions. Extrema of functions of several variables without and with constraints – First and second order conditions for optimization without constraints – optimization with constraints – The method of Lagrange multiplier
- 4. Application of Maximisation and Minimisation Techniques in Economics (8 Lectures)**
 - Relation between AP and MP – Relation between AC and MC – Profit maximization – Utility maximization subject to budget constraint – Output maximization subject to cost constraint – Cost minimization subject to output constraint
- 5. Integration (8 Lectures)**
 - Concept of Integration as a reverse process of differentiation – Rules of Integration – Techniques of definite integral
- 6. Application of Integration in Economics (8 Lectures)**
 - Finding out total functions (TR, TC, Consumption Function, Saving function) when marginal functions are given – Consumer’s Surplus – Producer’s surplus

7. Determinants and Matrices (10 Lectures)

- Concept of scalar, vector, matrices and determinants. Matrix operations: Addition, Subtraction, Multiplication, Inversion of matrices (2x2 model only), Bordered Hessian Determinant, Technique of solving simultaneous equation by Cramer's rule

8. Application of Determinant and Matrix Operations in Economics (8 Lectures)

- Derivation of Slutsky equation
- Generalised Multiplier in IS-LM model

References:

1. Henderson and Quandt: Micro economic theory
2. Das and Mukherjee: Fundamentals of differential and integral calculus
3. Chiang - Fundamental Methods of Mathematical Economics
4. Yamane : Mathematics for Economists
5. Mukherjee & Pandit – Mathematical Method for Economic Analysis
6. Allen : Mathematics for Economists
7. P. Abbot : Teach Yourself Calculus
8. Schaum Series : Mathematics for Economics
9. Srinath Barua: Mathematical Economics, Macmillan

Second Half

Indian Economic History

Full Marks: 50

Number of Lectures: 70

1. Land Settlements during the British Regime (12 Lectures)

- Permanent settlement – Objectives and their fulfillments – Ryotwari settlement – Mahalwari settlement.

2. Land Relations: (12 Lectures)

- Major tenancy reforms and their implications.

3. Agriculture: (12 Lectures)

- Commercialization in agriculture and its effects.

4. Development of Railways and Irrigation: (12 Lectures)

- Economic effects of development of Railways – Development of Irrigation System – Railway Vs Irrigation.

5. Deindustrialization and Growth of Modern Industries: (12 Lectures)

- Decline of handicrafts and its effects – Growth of modern industries like Cotton Textile, Jute, Iron and Steel.

6. Economic Consequence of the British Rule in India: (12 Lectures)

- The economic drain – Concept – Measurement – Effects.

References :

1. R. C. Dutt : Economic History of India. (Vols. I & II)
2. D. Bhattacharya : A Concise Economic History of India.
3. G. Kaushal : Economic History of India.
4. V.B Singh : Indian Economic History
5. Barun Chakraborty : *Bharater Sankhipta Arthanaitik Itihaas*, Rajya Pustal Parshad
6. Sabyasachi Bhattacharya: *Oupanibeshik Bharater Arthaniti*
7. Ronesh Roy : *Bharater Arthanaitik Itihaas*, Progressive Publishers

Paper – III

First Half

Microeconomic Theory - II

Full Marks: 50

Number of Lectures: 70

1. Imperfect Competition:

(20 Lectures)

- Theory of monopoly: Characteristics- AR and MR curves under monopoly-Relation among AR , MR and Elasticity of demand- Equilibrium under monopoly- major features of monopoly- index of monopoly power- price discrimination –when possible?- when desirable? – degree of price discrimination- equilibrium under price discrimination- Is price discrimination desirable? Equilibrium under multiplant monopoly- Monopsony - Equilibrium under bilateral monopoly
- Monopolistic competition: Short run and long run equilibrium- excess capacity.

2. Theory of oligopoly:

(15 Lectures)

- Characteristics of oligopoly- non-collusive oligopoly models of Cournot and Stackelberg – collusive oligopoly – price leadership – market sharing model- price rigidity under oligopoly.

3. Theory of factor pricing:

(20 Lectures)

- Demand for factors of production - Determinants of price elasticity of demand for a factor – marginal productivity theory and its limitations
- Theory of wage - Choice between work and leisure – derivation of individual labour supply curve – total labour supply curve – demand for labour – determination of equilibrium in a competitive labour market- collective bargaining and wage rate.
- Theory of rent - Transfer earning and economic rent – quasi rent – Rent and price
- Theory of profit - Gross and net profit- elements of profit- risk and uncertainty theory- Innovation theory of profit.

4. General equilibrium and economic welfare (15 Lectures)

- Partial and general equilibrium – a formal statement of general equilibrium approach- the concept of Pareto optimum- Pareto optimality in consumption-Pareto optimality in production-General Pareto optimality condition.

References:

1. Samuelson and Nordhaus : Economics
2. Koutsoyiannis : Microeconomic Theory
3. Ferguson and Gould :Microeconomic Theory
4. H. Varian : Intermediate microeconomics
5. Henderson and Quandt : Microeconomic Theory

Second Half

Macroeconomic Theory - II

Full Marks: 50

Number of Lectures: 70

1. The Classical System: (15 Lectures)

- The Classical view of Macro Economics in respect of the determination of Employment, Output and Prices.
- The classical quantity theory of money and its criticism; The Classical Theory of Rate of Interest - Loanable fund theory as a synthesis between Classical Theory and Keynesian Liquidity Preference Theory of Interest – the Complete Classical Model.
- Say's Law and Walras' law - The Dichotomy between the real and monetary sectors - Neutrality of money.

2. The Complete Keynesian Model: (15 Lectures)

- Introduction of the Labour Market – the Aggregate Demand and Aggregate Supply apparatus – the interaction between Commodity Market, Money Market and Labour Market – Determination of Equilibrium – Effects of changes in Money Supply and other factors – Comparison with the Classical system – Price Flexibility – Real Balance Effect and Full Employment.

3. Consumption function: (10 Lectures)

- Empirical findings regarding Consumption Function – Alternative Theories regarding its behaviour – Keynes, Smithies, Duesenberry, Friedman, Ando-Modigliani.

4. The Investment Function: (10 Lectures)

- The Keynesian analysis of Investment – The Marginal Efficiency of Investment, and its relation with the amount of Investment – Shortcomings of Keynesian analysis
- Net Present Value criterion and Marginal Efficiency criterion of Investment
- The Fixed Accelerator Principle of Investment – its Implications and Limitations.

5. Theories of Inflation: (10 Lectures)

- The Quantity Theory approach to Inflation
- Demand Pull Inflation and Inflationary Gap analysis; Its shortcomings
- Concepts of Cost Push & Mark Up inflation
- The Philips Curve and the trade-off between Inflation and Unemployment – short-run and long-run Philips Curve
- Consequences of inflation – Measures to control Inflation.

6. Economic Growth: (10 Lectures)

- The Harrod-Domar Model – Assumptions – Implications – Actual Warranted and Natural Rates of Growth – The Knife Edge Problem

Basic Readings:

Rowan, D.C – Output, Inflation & Growth
Mankiew – Macroeconomics
Sikdar, S – Principles of Macroeconomics, OUP
D'souza, Erol - Macroeconomics
Lipsey – An Introduction to Positive Economics
Samuelson and Nordhaus – Economics 13-th ed. Ch.9

Advanced Readings:

Ackley (2nd ed.) – Macroeconomic Theory and Policy
Branson – Macroeconomic Theory and Policy
Dornbusch and Fisher: Macroeconomics
Froyen - Macroeconomics
Levacic – Macro Economics
Mueller: (ed) Readings in Macroeconomics

Paper – IV

First Half

Statistical Methods - I

Full Marks: 50

Number of Lectures: 70

1. Tabular and Diagrammatic Presentation of Data: (10 Lectures)

- Statistical Data – classification and presentation – methods of collection of data – difference between variable and attributes – frequency distribution and its diagrammatic presentation – choice of class interval – diagrammatic representation of frequency distribution – frequency curve – cumulative frequency distribution (more than and less than) Ogive - (simple numerical exercise)

2. Measures of Central Tendency (12 Lectures)

- Arithmetic mean, median and mode (for both grouped and ungrouped data) – comparison of mean, median and mode – geometric mean and harmonic mean (for

both grouped and ungrouped data) – composite mean (average from combined data) – properties for all these measures-(simple numerical exercise)

3. Measures of Dispersion (12 Lectures)

- Absolute measures – Range, mean deviation and Standard deviation and Quartile Deviation – Relative measures – curve of concentration - (simple numerical exercise)
- Measurement of economic inequality: nature of distribution of income and wealth graduating from income distribution – Lorenz Curve representation of income distribution – Gini Coefficient and Lorenz Curve-(simple numerical exercise)
- Moments and measures of skewness and Kurtosis: moments, skewness and kurtosis – definition – relationship between central and non-central moment – Sheppard's correction - (simple numerical exercise)

4. Bivariate Data: Simple Correlation and Regression Analysis (12 Lectures)

- Scatter diagram – simple correlation coefficient and its properties, its calculation from grouped and ungrouped data, limitations of correlation coefficient. Simple regression analysis – properties of regression line – relationship between correlation coefficient and regression coefficient. Spearman's rank correlation coefficient (without tie) – Kendall's rank correlation coefficient- (simple numerical exercise)

5. Index Numbers (12 Lectures)

- Purpose and uses of index number, problems of construction, different formulae for price and quantity index numbers, tests for index numbers, chain index, and cost of living index-(simple numerical exercise)

6. Time Series (12 Lectures)

- Nature and decomposition of time series – analysis of trend—polynomial trend – exponential trend – non-linear growth curves – moving average method – seasonal component-(simple numerical exercise)

References:

1. Goon, Gupta and Dasgupta – Fundamental of Statistics, Vol. I & II
2. Goon, Gupta and Dasgupta – Basic Statistics
3. N. G. Das – Statistical Method (Part I & II)
4. Yule and Kendall – An Introduction to the Theory of Statistics
5. Gupta and Kapoor – Fundamental of Mathematical Statistics.

Second Half
Selected Features of Indian Economy

Full Marks: 50

Number of Lectures: 70

- 1. Structural Changes in Indian Economy: (14 Lectures)**
 - Trends in national and per capita income – Changes in occupational pattern – Sectoral distribution of national income.
- 2. Agricultural Sector (14 Lectures)**
 - (a) Farm size and productivity (b) Price elasticity of marketed surplus (c) Green Revolution – Productivity, Employment and Distribution aspects (d) Land Reforms.
- 3. Industrial Sector (14 Lectures)**
 - (a) New Industrial Policy 1991 (b) The Exit policy (c) Industrial Licensing Policy
- 4. Poverty and Unemployment (14 Lectures)**
 - (a) Poverty – Concept and measurement issues (b) Nature and types of unemployment in India - Problems of measurement of unemployment (c) Unorganized labour market : Female and Child Labour
- 5. Development of Basic Infrastructure (14 Lectures)**
 - Irrigation, Energy, Transport and Communication.

Basic References :

- | | | |
|------------------------|---|----------------------|
| 1. Dutta and Sundharam | : | Indian Economy |
| 2. Mishra and Puri | : | Indian Economy |
| 3. Agarwal | : | Indian Economy |
| 4. Gupta | : | Business Environment |

Advance References :

- | | | |
|-----------------------------|---|---|
| 1. V. K. R. V. Rao | : | India's National Income |
| 2. P. Chowdhury | : | Indian Poverty and Development |
| 3. Lucas and Papanek (ed) | : | Indian Economy |
| 4. Bhagwati and Chakraborty | : | Contributions to Indian Economic Analysis |
| 5. Wadhva (ed) | : | Some Problems of India's Economic Policy |
| 6. Kapila (ed) | : | Indian Economy |
| 7. Rudra | : | Political Economy of Indian Agriculture |
| 8. A. K. Sen | : | Employment, Technology and Development |

Part-III
Paper – V
First Half
International Economics

Full Marks: 50

Number of Lectures: 70

1. Theory of Trade (20 Lectures)

- The Ricardian theory – generalization of Ricardian model- the H-O Model, comparison of CA in the two (HO and Ricardo) – Commodity and Factor prices under trade- factor price equalization, factor intensity reversal and factor Prices- Leontief paradox, gains from trade and income distribution.

2. Balance of Payments and Problems of Adjustment (20 Lectures)

- The mechanism of adjustment under fixed exch. Rates – automatic adjustment under Gold Standard- expenditure reducing and Expenditure switching policies – devaluation, the elasticity and absorption approaches – direct controls- mechanism of adjustment under flexible exchange rate and uncertainty, speculation and the stability of exchange rate and inflation- costs and benefits of flexible exchange rates.

3. Trade Intervention (20 Lectures)

- Theory of Tariff and income distribution – the Stolper-Samuelson theorem, tariffs terms of trade and domestic prices, tariffs and national income, the optimum tariff, other effects of tariffs – quotas and quantitative trade restrictions -effects of quotas and quantitative trade restrictions and balance of payments- trading state, the infant industry argument

4. Problems of international reserves and liquidity and of development finance

(10 Lectures)

- IMF and its role- as a source of international liquidity. SDRs, IBRD, World Bank and its Affiliates

Basic References:

Salvatore:	International Economics (A Schaum Series introduction to International trade theory.
Soderstein, Bo	International Economics, 2 nd Edition
Kennen, P	International Economics

Advanced References

Caves, Frankel and Jones	World Trade and Payments
Krugman and Obstfeld	International Economics

Second Half
Money and Capital Market

Full Marks: 50

Number of Lectures: 70

- 1. Definition of Money Market: (12 Lectures)**
 - Basic Concepts of Call money market, Commercial Bills market, Treasury Bills market, Short-Term loan market. Features and objectives of Money Market. Features of Developed Money Market.
- 2. Commercial and the Central Bank (15 Lectures)**
 - Nature and function of Central Bank and the money supply-different concept of money supply and their uses-credit creation and credit multiplier-theories of asset management-role of commercial banks in development.
 - Central Bank's functions-Central Bank and money market – Techniques of management- bank rate policy, open market operations and variable reserve ratio and selective instruments of credit control.
- 3. Non-Banking Financial Intermediaries (NBFIs) (10 Lectures)**
 - Distinction between commercial banks and NBFIs- validity of the distinction-Central bank's control over the NBFIs.
- 4. Introduction to Capital Market (15 Lectures)**
 - Basic Concept of organized and unorganized Capital Market. Distinction between Primary Market and Secondary market. Differences between Share and Bond.
- 5. Indian Stock Market terminology (12 Lectures)**
 - **(Only the following terms):** *Arbitrager, Hedger, Speculator, Day trader, Broker, IPO, Preferential Share, Equity, Bonus Share, Blue Chips Stocks, Rolling Settlement, DEMAT, Open order & Limit order, Book Value, Face Value, Market Value, Buy Back, Insider Trading, EPS, P/E ratio, SENSEX, NIFTY, Credit rating and credit rating agencies.*
- 6. Capital Market Regulatory Authority (6 Lectures)**
 - Role and Functions of Regulatory Authorities
 - Securities and Exchange Board of India (SEBI).

References:

- 1) S.B. Gupta: Monetary Economics-Institutions, Theory and Policy.
- 2) E. Gordon, K. Natarajan: Financial Markets and Services.
- 3) Varshney & Mittal: Indian Financial System
- 4) D.M.Mithani: Money Banking International Trade and Public Finance.
(Chapters 11,13,14,16,17,18).
- 5) Desai, V.: The Indian Financial System.

- 6) Machiraju, H. R.: Indian Financial System.
- 7) Bhole: Indian Financial System.

Paper – VI
First Half
Development Economics

Full Marks: 50

Number of Lectures: 70

- 1. Economic Development (10 Lectures)**
 - C Meaning of Development – Growth and Development – Broad Indicators of Economic Development – Per capita Income – PQLI – Basic needs approach – Human Development Index – Gender Development Index – Human Poverty Index.
- 2. Persistence of Underdevelopment and Way to Develop (20 Lectures)**
 - Characteristics of underdevelopment – Obstacles to underdevelopment – Trap Models – Vicious circle of poverty – Critical minimum effort thesis – Low level equilibrium trap – Process of cumulative causation – Concept of surplus labour – Surplus labour as potential saving – Economic development with unlimited supplies of labour (Lewis Model).
- 3. Development Strategy (7 Lectures)**
 - Capital intensive Vs Labour intensive technique – Choice of technique in a labour surplus economy – Sustainable development.
- 4. Trade and Development (8 Lectures)**
 - Trade as an engine of growth – Terms of trade and economic development (Prebisch – Singer Thesis) – Imports substitution Vs export promotion.
- 5. Development and Underdevelopment as a Historical Process (10 Lectures)**
 - Dependency theory of Baran – Frank’s Theory of colonial exploitation – Merchant capital in shaping underdevelopment (Kay) – Emmanuel’s theory of unequal exchange.
- 6. Historical Evolution from GATT to WTO (15 Lectures)**
 - Objectives of GATT – Main resolutions of Uruguay Round – WTO – Objectives – Functions – Advantages and disadvantages of less developed countries – Role of less developed countries in the WTO regime..

References:

- | | | |
|------------------------|---|--|
| 1. Thirlwall | : | Growth and Development |
| 2. Debraj Roy | : | Development Economics |
| 3. Meier (ed) | : | Leading Issues in Economic Development |
| 4. K. Basu | : | A Critique of Less Developed Economy |
| 5. Debesh Bhattacharya | : | Political Economy of Development |
| 6. Pearce and Turner | : | Economics of Natural Resources and the Environment.. |

Second Half
Marxian Economics

Full Marks: 50

Number of Lectures: 70

1. Classical Background

No. of Lectures: 20

- Chief features of classical system, Adam Smith Labour Theory of Value, the Ricardian one sector model, Classical political economy and Marx.

2. Stages of Development

No. of Lectures: 13

- Marxian theory of stages of growth, Rostow's theory of stages of growth.

3. Marx's Theory of Value

No. of Lectures: 12

- Qualitative and quantitative aspects of value, commodity fetishism, constant and variable capital, circuits of capital, surplus value, organic composition of capital.

4. The Reproduction Schemes & Accumulation of Capital

No. of Lectures: 10

- Industrial reserve army, accumulation and technological change.

5. Origin of Surplus Value and Profits

No. of Lectures: 15

- The law of falling rate of profit - Theories of Crisis: Under consumption, realization crisis, disproportionality crisis.

References:

1. Ben Fine- Marx's capital
2. Sweezy- Theory of Capitalist Development.
3. M. Desai- Marxian Economics.
4. Blaug, M - [PDF]
5. Marc Blaug, Economic Theory in Retrospect, 3rd ed

Paper – VII
First Half
Statistical Methods - II

Full Marks: 50

Number of Lectures: 70

1. Probability Theory

(Lecture: 08)

- Introduction to Set Theory - Elementary set theory - Finite and infinite sets- convex sets- basic set operations- union, intersections, complements and difference of events – Venn Diagram -commutative property – associative property - Permutation and combination – concepts and elementary problems
- Definition and meaning of probability – Classical definition – some basic results – theorem of total probability – conditional probability and statistical independence and

mutual independence – theorems of compound probability – Bayes' Theorem-
limitation of the classical definition -(simple numerical exercise).

2. Random Variables, Mathematical Expectations & Generating Function (Lecture: 08)

- Definition of random variables – probability function and distribution function– mass and density function – joint density function – marginal and conditional distribution – expectation and variance of random variables – moment generating function (about any origin and about mean) –first four central moments-(simple numerical exercise)

3. Theoretical Distributions (Lecture: 10)

- Discrete Distribution: Binomial and Poisson- Derivation of mean and variance- other properties (without proof)- Continuous Distribution – Normal Distributions. Properties of Normal Distribution-Standard Normal Deviate- Limiting forms of Binomial and Poisson distribution- (simple numerical exercise)

4. Sampling Theory (Lecture: 08)

- Meaning and objects of sampling-Sampling Vs Complete enumeration-types of sampling (concept only)- biases in surveys, random sampling- simple random sampling with replacement - simple random sampling without replacement (concept with example) -practical methods of drawing a random sampling- random sampling from a probability distribution-parameter, Statistic and sampling distribution-(simple numerical exercise)

5. Statistical Inference (Lecture: 08)

- Fundamental ideas of statistical inference – difference between estimation and hypothesis testing – properties of a good estimator: unbiasedness, consistency, sufficiency and efficiency. Testing of hypothesis: Definition of null and alternative hypothesis, simple and composite hypothesis – Type I and Type II errors – meaning of level of significance and power of the test – test and confidence interval for a single mean and variance under normality-(simple numerical exercise)

6. Vital Statistics (Lecture: 08)

- Rates of Vital event – Measurement of mortality (crude, specific and standardized death rates, comparative mortality index) – Life Table: description and construction – measurement of fertility – crude birth rate, general fertility rate – measurement of population growth – crude rate and vital index, gross reproduction and net reproduction rate – population projection-(simple numerical exercise)

References:

1. Goon, Gupta and Dasgupta – Fundamental of Statistics, Vol. I & II
2. Goon, Gupta and Dasgupta – Basic Statistics
3. N. G. Das – Statistical Method (Part I and II)
4. Hoel – Introduction to Mathematical Statistics
5. Keriney and Keeping – Mathematics for Statistics (Part I)
6. Gupta and Kapoor – Fundamental of Mathematical Statistics.
7. Yule and Kendall – An Introduction to the Theory of Statistics
8. Mathai and Rathi – Probability and Statistics.

Second Half **Entrepreneurship Development & Decision Theory**

Full Marks: 50

Number of Lectures: 70

- 1. Concept of Entrepreneurship and Motivation (12 Lectures)**
 - Basic features - Entrepreneurship and economic development - Growth of entrepreneurship in India-- Problem of Rural entrepreneurship in India
 - Motivation Theories – Maslow’s Needs Hierarchy Theory, MccLelland’s Acquired Needs Theory, External & Internal Theory of Motivation, The Kakinara Experiment
- 2. Project identification and selection (6 Lectures)**
 - Meaning of project- project report - planning commission’s guidelines for formulating a project report
- 3. Financial resources for new ventures (10 Lectures)**
 - Sources of finance - capital structure - institutional support to enterprises—national small industries board – state small industries development corporation--- district industries center - industrial estates
- 4. Expansion Strategies (8 Lectures)**
 - Growth strategies in small business
 - Support infrastructure and operational environment for successful entrepreneurship.
- 5. Linear programming (10 Lectures)**
 - Linear programming technique as a tool for optimization: Graphical solution of two variable problem, Simple concept of Primal and Dual
- 6. Interdependence between sectors (10 Lectures)**
 - Concept of interdependence between sectors, Static input-output model- Viability of production in input-output system- Hawkins-Simon condition in Two-by-Two system

7. Basic Game Theory (8 Lectures)

- Basic assumptions of game theory; The zero sum game with Saddle Point; Concept of Dominance; Elements of Non-zero sum game: Prisoners' Dilemma; Concept of Nash equilibrium

8. Decisions under uncertainty (6 Lectures)

- Maximin, Maximax, Hurwicz, Laplace and Savage criterion for optimal decision.

Basic References:

1. S.S Khanka--- Entrepreneurial Development, S.Chand & Company Ltd
2. Bill Bolton and John Thompson ---- Entrepreneurs : Talent, Temperament and Technique, Butterworth and Heinemann .
3. A.C. Chiang---Fundamental Methods of Mathematical Economics, Mcgraw-Hill International Edition.
4. Dorfman, Samuelson & Solow - Linear Programming and Game Theory: An Economic Analysis.
5. Koutsoyiannis – Modern Microeconomics
6. Baumol – Economic Theory and Operations Analysis

Advanced References

1. David .H Holt---Entrepreneurship New Venture Creation
2. N.D.Vohra- Quantitative Techniques in Management , Tata Mcgraw-Hill
3. Sharma- Operations Research , Macmillan India Ltd.

Paper – VIII

First Half

Indian Economic Planning

Full Marks: 50

Number of Lectures: 70

1. Role of Planning (Lecture: 08)

- Planning in a mixed economy – Planning Vs Market – Decentralized planning – The Indian experience – Pre-1991 and Post-1991 plans – Major objectives and achievements of Indian plan.

2. Monetary Policy and Plans

- Objectives of RBI's monetary policy – Monetary policy in recent years – Recent problems of nationalized banks.

3. Indian Tax Structure during Plan Period

- Trends, problems, reforms in tax structure – Centre – State Financial Relation.

4. The External Sector

- Balance of payments – Problems and policies in recent years – Exim policy of the government.

5. Public Sector in India

- Role of Public Sector in India during the plan period – Problems and policies with special emphasis on disinvestment policy.

6. Financial Sector Reforms

- Recent reforms in Banking and Insurance Sector.

Basic References :

- | | | |
|------------------------|---|----------------|
| 1. Dutta and Sundharam | : | Indian Economy |
| 2. Mishra and Puri | : | Indian Economy |
| 3. Dhingra, I.C | : | Indian Economy |

Advanced References :

- | | | |
|-----------------------------|---|---|
| 1. Bhagwati and Chakraborty | : | Contributions to Indian Economic Analysis |
| 2. Chakraborty | : | Development Planning: The Indian Experience |
| 3. Wadhva (ed) | : | Some Problems of India's Economic Policy |
| 4. Lucas and Papanek (ed) | : | Indian Economy |
| 5. Jalan | : | Indian Economic Crisis |
| 6. Nayaar | : | On Economic Liberalization |
| 7. Kapila (ed) | : | Indian Economy |

Second Half

Public Economics and Environmental Economics

Full Marks: 50

Number of Lectures: 70

- 1. Introduction to instruments and objective of Public Finance (10 Lectures)**
 - Public goods and private goods; The three bases of public finance (stability etc).
 - Externalities; Public Economics and Public Finance; Provisioning of Public Goods and Public Finance; Economy-Environment Interfaces
- 2. Principles of Taxation (25 Lectures)**
 - Ability and benefit approaches – voluntary exchange model – degree of progression bases of taxation – income, expenditure wealth and commodities – income versus expenditure tax – shifting and incidence of taxes.
- 3. Compensatory Fiscal Policy (20 Lectures)**
 - Effects of changes in govt. expenditure and taxation – balanced budget multiplier – public debt and its economic effects – anti-inflationary fiscal policy.
- 4. Environment and negative externalities: (8 Lectures)**
 - The uniqueness, uncertainty and irreversibility - The use and nonuse value of environment;

5. Pollutions and other environmental Degradations

(7 Lectures)

- Optimal level of pollution; the conflict between net private and net social benefits of pollution and abatement; Concept of WTP & WTA – A statement of Coase Theorem; Global Issues and the North-South Debate..

References:

1. Musgrave - Theory of Public finance
2. Subrata Gupta - Public Finance
3. Hanley Shogren & White - Environmental Economics
4. Titenberg - Environmental Economics
5. R.N. Bhattacharya ed. - Environmental Economics An Indian perspective