

UNIVERSITY OF CALCUTTA

SYLLABI

**F
O
R**

**THREE-YEAR HONOURS & GENERAL
DEGREE COURSES OF STUDIES**



**ECONOMICS
2010**

University of Calcutta
Syllabus for BA/BSC (Honours and General)
Effective from the Academic Year 2010-11.

Part I

Structure of the BA/BSC (Honours)
 Total Marks = 800

Year	Paper No.	Paper Name	Comments	Marks
1st Year				200
	Paper IA	Microeconomic Principles		50
	Paper IB	Macroeconomic Principles		50
	Paper IIA	Statistics for Economics		50
	Paper IIB	Mathematics for Economics		50
2nd Year				200
	Paper IIIA	Microeconomics		50
	Paper IIIB	Macroeconomics		50
	Paper IVA	Development Theory		50
	Paper IVB	Indian Economy Since Independence		50
3rd Year				400
	Paper VA	International Economics		50
	Paper VB	Public Economics		50
	Paper VIA	Comparative Development Experience		50
	Paper VIB	Contemporary Economic Issues: India and West Bengal	Group A (30 Marks): Contemporary Economic Issues – India. Group B (20 Marks): Contemporary Economic Issues- West Bengal.	50
	Paper VIIA	Statistics & Basic Econometrics		50
	Paper VIIB	Applied Economics	Students have option to answer from either Group A or Group B.	

			<p style="text-align: center;">Group A Applications of Economics to Managerial Issues</p> <p style="text-align: center;">or</p> <p style="text-align: center;">Group B Mathematical Economics</p>	
	PaperVIII A	Indian Economic History		50
	PaperVIII B	Term Paper		50

**Guidelines for Term Paper (Paper VIII B)
of BA/BSc Economics (Honours)**

1. Each student will prepare a term paper not exceeding 5000 words (excluding charts, diagrams, tables etc.).
2. The term paper may be descriptive, exploratory or empirical.
3. The selection of the topic will be from the subjects covered in the undergraduate economics honours syllabus.
4. The term paper will be submitted by the candidates to the respective colleges at least a fortnight before the *viva-voce* examination which will be held at the respective college centres.
5. The board of examiners will consist of one internal and one external examiner.
6. The marks division for the term paper will be as follows: 30 for the written paper and 20 for *viva voce*. The marks of the written paper will be the average given by the internal and external examiners. However, the *viva-voce* will be conducted and the marks awarded by the external examiner only.

Part II

Structure of the BA/BSC General

Year	Paper No.	Paper Name	Comments	Marks
1st Year				100
	Paper IA	Microeconomics I		50
	Paper IB	Macroeconomics I		50
2nd Year				200
	Paper IIA	Microeconomics II		50
	Paper IIB	Macroeconomics II		50
	Paper IIIA	Indian Economy I		50
	Paper IIIB	Indian Economy II		50
3rd Year				100
	Paper IVA	Development Economics		50
	Paper IVB	International Economics & Statistics	Group A (25 Marks) : International Economics. Group B (25 Marks) : Statistics.	50

Syllabus for BA/BSC (Honours)

Paper IA: Microeconomic Principles		
Full Marks 50: Total Lectures 90		
Unit	Topic	Lectures (No)
1	The Economic Way of Thinking	18
	<p>Normative Economics and Positive Economics - Methodology Wants, Scarcity, Competing Ends and Choice - Defining Economics Basic Economic Questions, Microeconomics and Macroeconomics. Lipsey, Chapter 1 and Chapter 4. Mankiw, chapter 2. Principles of Microeconomics – principles of individual decision making and principles of economic interactions – Introduce trade Off, Opportunity Cost, Efficiency, Marginal Changes and Cost-Benefit, Trade, Market economy, Market failure, Externality and Market power. Mankiw, Chapter 1, Stockman Chapter 1 Interdependence and the Gains from Trade – production possibilities frontier and increasing costs, absolute and comparative advantage, comparative advantage and gains from trade. Mankiw, Chapter 3, Stockman Chapter 2.</p>	
2	Market and Adjustments	25
	<p>The Evolution of Market Economies. Price System and the Invisible Hand. Lipsey Chapter 5, (page 59-61). The Decision-takers – households, firms and central authorities The Concepts of Markets – individual market, separation of individual markets, interlinking of individual markets. Difference among markets – competitiveness, goods and factor markets, free and controlled markets. Market and non-market sectors, public and private sectors, economies – free market, command and mixed. Different Goods: Public goods, Private goods, Common resources and Natural Monopolies Lipsey Chapter 6, 67-71, Mankiw Chapter 11 (201-203), Lipsey and Chrystal Chapter 13 (278). Market and competition; Demand and its determinants; Supply and its determinants; relation of Quantity Demand with Price (using arguments of income and substitution effects); relation of Quantity Supply with Price (using increasing costs argument); Laws of Demand and Supply; Demand and Supply as Planning Curves; movement along and shift of the curve; Demand, Supply and Other factors. Equilibrium and Disequilibrium Market Adjustment without Government (with illustrations) Mankiw, Chapter 4. Lipsey and Chrystal, Chapter 3. Stockman Chapter 4</p>	
3.	Market Sensitivity and Elasticity	10
	<p>Importance of Elasticity in Choice-Decisions Method of Calculation – Arc Elasticity. Point Elasticity – definition. Demand and Supply Elasticities – types of elasticity and factors effecting elasticity. Demand Elasticity and Revenue</p>	

	Income and Cross Price elasticity Long run and Short Run elasticities of Demand and Supply Case Studies – OPEC and Oil Price, Illegal Drugs Mankiw, Chapter 5. Stockman, Chapter 5. Lipsey and Chrystal, Chapter 4.	
4	Government Intervention	10
	4.1 The Economic Role of Government with respect to Market:(i) Price Ceiling, Price Floor and Market Adjustment (with short case studies of agricultural administered price, minimum wage and rent control); (ii) Black Market (iii) Tax and market adjustment; (iv) Elasticity and Tax incidence. Mankiw, Chapter 6. Lipsey, Chapter 10 (115-16). Stockman, chapter 8.	
5	Utilitarian Approach	4
	The History of Utility Theory – From Cardinal to Ordinal Approach. Samuelson and Nordhaus, Chapter 6 (85-86). 5.2 Utility in Cardinal Approach – Utility and choice, Total Utility and Marginal utility, Utility and choice - maximization, marginal utility theory of demand. Lipsey and Chrystal, Chapter 5 (87-90)	
6	Markets and Welfare	10
	Willingness to Pay and Consumer Surplus Willingness to Sell and Producer Surplus Market Efficiency and Deadweight Loss Deadweight Loss of Taxation. Mankiw, Chapters 7 and 8 (152-157). Stockman, Chapter 9	
7	Market failure, Externalities and Public Goods	12
	7.1 Market Failure (definition) and its causes. Lipsey and Chrystal Chapter 13 (277-278). Externalities and market inefficiency: difference between social costs and private costs, Positive and negative externalities, Private Solution to Externalities: Coase theorem, Public Policy towards Externalities: Regulation, Pigovian tax and subsidies, tradable permits. Mankiw Chapter 10, Stockman Chapter 21. Public Goods and Common Resources: Public Good and the free rider problem. Common Resources and Tragedy of Commons. Examples of Public Goods and Common Resources. Mankiw Chapter 11 (203-211).	
8	Conflicting and Complementary Roles of Market and Government (Summary)	1
	Readings Texts 1. R.G. Lipsey. An Introduction to Positive Economics. English Language Book Society. (sixth edition or later edition) 2. Lipsey and Chrystal. 2007. Economics. Oxford University Press. 3. G, Mankiw. 2007. Economics: Principles and Applications. South Western of Cengage Learning. 4. A, Stockman. 1999. Introduction to Economics. Dryden Press. (2 nd or later edition). References 5. Edwin G Dolan & David E Lindsey. 1994. Microeconomics. The Dryden Press.	

<p>6. J E Stiglitz and C E Walsh. Principles of Economics, W.W. Norton & Company, New York (3rd or later Edition)</p> <p>7. P Samuelson and W Nordhaus. Economics, Mc GrawHill International Editions. (14th edition or latest one)</p> <p>8. R. L. Heilbroner. The Worldly Philosophers: The Lives, Times and Ideas of the Great Economic Thinkers. Touchstone: New York. 6th or latest edition. (for students interested in knowing the historical evolution of economy, the lives and contributions of great economists).</p>	
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Paper IB: Macroeconomic Principles		
Full Marks 50: Total Lectures 90		
Unit	Topic	Lectures (No)
1	Nature and Scope of Macroeconomics	12
	Distinction between Macro economics and Microeconomics - Aggregation and Macroeconomics Goals and Instruments of Macroeconomics Supply and Demand in Macroeconomics Introduce Economic growth, GNP gap, booms, recessions, depressions, business cycles, fiscal policy, monetary policy, international economic policy, macro equilibrium, exchange rate, inflation and deflation, stagflation, supply shock and tight money. Brief history and Schools of Macroeconomics – Keynesian, Classical, New Keynesian and New Classical. Samuelson and Nordhaus, Chapter 23. S, Sikdar Introduction (page 6-8).	I
2	Accounting Output and Income	20
	The Circular Flow Explication - Measuring Output – Gross National Product - Nominal GNP, Real GNP and GNP Deflator. The Two Approaches to measure GNP - The Final Goods Approach and Income Approach. Intermediate goods and value added approach Flow Statistics and Stock Statistics – Investment – Consumption – Capital stock GNP, Gross Domestic product, Net National product, National Income and Disposable Income. GNP and Economic Well Being Samuelson and Nordhaus, Chapter 24, Mankiw, Chapter 23.	
3	Consumption and Investment	14
	Consumption and Savings – Consumption, Income and Saving, Consumption Function, Marginal Propensity to Consume, Marginal Propensity to Save. Determinants of Consumption. Determinants of Investment. Investment Demand Curve and interest rate. Samuelson and Nordhaus, Chapter 25	
4	Production and Growth	10
	History of Economic Growth and Why Growth Matters. Importance of productivity in growth. Determinants of productivity –	

	<p>physical capital, human capital, natural resources and technological knowledge.</p> <p>4.3 Economic Growth and Public Policy – importance of saving and investment, diminishing returns and catch-up effect, foreign investment, education, property rights and political stability, free trade, population control and research and development (brief illustration in the context of Indian economic reform)</p> <p>Mankiw, Chapter 25.</p>	
5	Unemployment	12
	<p>Defining and Measuring the Unemployment Rate – Counting of Unemployed – Employed, Unemployed, Labour Force, Discouraged Workers. Okun’s Law. Economic Costs of High Unemployment. Types of Unemployment – Frictional Unemployment and Job Search, Structural Unemployment and Cyclical Unemployment, Voluntary versus Involuntary Unemployment.</p> <p>Sources of Inflexibility in wages – minimum wages, unions and collective bargaining and efficiency wages.</p> <p>Samuelson and Nordhaus, Chapter 31 (572-81), Mankiw, Chapter 28</p>	
6	Money and Monetary Institutions	12
	<p>The Classical and Modern View</p> <p>Definition and functions of Money.</p> <p>Origins of Money including Gresham’s Law.</p> <p>6.4. Money Creation, Models of Banking – ratios approach and competitive banking system, money supply and competitive banking.</p> <p>Money and Relative Values – money as a veil, neutrality of money, money illusion, real and monetary effects and price level changes.</p> <p>Lipsey and Chrystal, Chapters 20 and 21 (462-464).</p> <p>Reserve Bank of India, Targets and instruments of monetary policy. Sikdar. Chapter 6 (79, 82-84), Samuelson and Nordhaus Chapter 29 (529-532).</p>	
7	Inflation	10
	<p>7.1. Definition and measurement of Inflation rate – CPI and GNP Deflator.</p> <p>7.2 Index-number problems in measuring the cost of living.</p> <p>7.3. Types of Inflation – Moderate inflation, Galloping Inflation and hyperinflation.</p> <p>Impact of Inflation – redistribution of Income and Wealth and distortions on output and prices.</p> <p>Correcting economic variables from inflationary effects.</p> <p>Samuelson and Nordhaus, Chapter 32. G, Mankiw, Chapter 24.</p>	
<p>Readings</p> <p>Texts</p> <ol style="list-style-type: none"> 1. P Samuelson and W Nordhaus. Economics, Mc GrawHill International Editions . (14th edition or latest one) 2. G, Mankiw. 2007. Economics: Principles and Applications. South Western of Cengage Learning. 3. Lipsey and Chrystal. Economics. Oxford University Press. (eleventh edition or latest one). <p>References</p> <ol style="list-style-type: none"> 4. S, Sikdar. Principles of Macroeconomics. Oxford University Press. 		

5. R.E. Hall and D.H. Papell. Macroeconomics. WWW Norton. (6th edition or latest one).
 6. J E Stiglitz and C E Walsh. Principles of Economics, W.W. Norton & Company, New York (3rd or later Edition).

Paper II A: Statistics for Economics		
Full Marks 50: Total Lectures 90		
Unit	Topic	Lectures (no)
1	Data Presentation	5
	Data - Classification and presentation, Population and Sample, Collection of Data - Variable and Attribute. Frequency distribution - Diagrammatic representation of frequency distribution. Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	
2	Central Tendency	15
	Arithmetic Mean, Median and Mode (for both grouped and ungrouped data), Comparison of Mean, Median and Mode, Geometric and Harmonic Mean, Composite Mean. <i>Application:</i> Index Numbers: their concept as weighted averages, Problems in the Construction of Index Numbers, Chain Index, Cost of Living Index Number (different formulae) Wholesale Price Index and Cost of Living Index in India, Uses of Index Numbers. Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	
3	Dispersion	6
	Range, Mean Deviation Quartile Deviation and Standard Deviation, Measures of Relative Dispersion, Curve of Concentration. Measurement of Economic Inequality: Gini Coefficient and Lorenz Curve. Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	
4	Skewness and Kurtosis	3
	4.1 Central and non central moments, different measures of skewness and kurtosis Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	
5	Probability Theory	15
	Elements of Probability Theory - Sample Space, Events Meaning of Probability, Classical Definition of Probability The Addition Rule, The Multiplication Rule, Theorems of Total Probability, Conditional Probability and Statistical Independence Limitations of the Classical definition, Frequency definition, Axiomatic Approach, Bayes' Rule	

	Mathai & Rathie – Probability and Statistics Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	
6	Random Variables and Probability Distributions	
	Definition of random variable – discrete and continuous random variable, probability mass function and probability density functions, Expectation and Variance of random variables Univariate Probability Distributions: Binomial, Poisson, Hypergeometric, Normal and Standard Normal Distribution -Mean Variance, Skewness and Kurtosis.	6 15
	6.3 Moment Generating Functions, Limiting form of Binomial distribution (with proof), Limiting form of Poisson distribution (no proof), Importance of Normal Distribution in Statistics, Central Limit Theorem (statement only). Mathai & Rathie – Probability and Statistics Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	10
7	Bivariate Analysis	10
	Definition of bivariate data, scatter diagram, covariance - measure of association - Coefficient of Simple Correlation - Properties and the method of calculation. Concept of rank correlation -Spearman's Rank Correlation 7.3.Measure of influence - Simple Linear Regression - Least Squares and Normal Equations and determination of regression coefficient Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I	
8	Population Statistics	5
	Measurements of mortality: Crude Death Rate, Specific death Rate, Standardised death rate, Mortality index, Infant mortality rate. Measurements of fertility: Crude birth rate, general fertility rate, age-specific fertility rate, total fertility rate, Gross Reproduction Rate, Net Reproduction Rate. Life Table: its uses. Goon,Gupta,Dasgupta – Basic Statistics.	
	Readings	
	<p>Texts</p> <ol style="list-style-type: none"> 1. Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I, World Press Private limited 2. Mathai & Rathie – Probability and Statistics, The Macmillan company of India Limited <p>References</p> <ol style="list-style-type: none"> 3. Earl.K. Bowen and Martin K. Starr. Basic Statistics for Business and Economics. McGraw Hill International Student Edition 	

4. Kenney and Keeping. Mathematics of Statistics, Vol.1 (Chapters, 1, 2 and 5). Affiliated East West Press.
5. Allen Webster. Applied Statistics for Business and Economics, 3 rd Edition. McGraw Hill International Edition.
6. P H Karnel and M Polasek. Applied Statistics for Economists, 4 th Edition. Pitman: Australia
7. M R Spiegel and L.J. Stephen. Statistics, Schaum Series

Paper IIB: Mathematics for Economics		
Full Marks 50: Total Lectures 120		
Unit	Topic	Lectures (No)
1	Introduction to Functions and Graphs	12
	The concept of sets and their operations Cartesian product, vocabulary of functions, graphs, polynomials, increasing and decreasing functions Local, global maximum, linear and non-linear functions and their slopes Differentiability and continuity of a function Ref: Chiang & Wainwright , Chapter 2 , Archibald & Lipsey, Chapter 2&3	
2	Derivatives and its uses in single-variable calculus	15
	Use of first derivatives for graphing, second derivatives and curvature Maxima and minima (local and global) Concepts of average and marginal change, and elasticity Ref: Archibald & Lipsey, Chapter 4&6	
3	Functions of several variables:	15
	Level curves Partial derivatives, second order derivatives and use of chain rule, convexity of level curves Monotonic transformation, homogeneous function, Euler's theorem Ref: Archibald & Lipsey, Chapter 8	
4	Linear Algebra, Fundamentals of Matrix Algebra and Linear Programming:	18
	System of linear equations and its solutions, Cramer's rule Comparative Static exercise, matrix operations of linear equation systems, system with multiple or no solutions Input-Output Matrices Formulation of a linear programming problem, concepts of feasible and basic feasible solution, duality Ref: Chiang & Wainwright: Chapter 4&5, Archibald & Lipsey, Chapter 15	
5	Optimisation with Equality and Inequality Constraints	18
	Constrained and unconstrained optimization with first-order and second-order conditions Homogeneous and homothetic functions, concave and quasi-concave functions and their programming Ref: Chiang & Wainwright, Chapter 12,13 (Section 13.1) Archibald & Lipsey, Chapter 10	
6	Difference Equations:	12
	6.1 Linear first-order difference equation and their solution	

	6.2 Linear second-order difference equation and their solution Ref: Chiang & Wainwright, Chapter 16	
7	Differential Equations:	15
	Linear first-order differential equation Linear second order differential equation with real equal and unequal roots and complex roots Ref: Chiang & Wainwright, Chapter 17, 18 (Section 18.1)	
8	Game theory:	15
	Concepts of Game, representation, pure strategy and mixed strategy solutions Two person Zero sum game as a linear programming problem, Constant & Non-constant sum game Prisoner's Dilemma, Dominance, Pure Strategy, Nash Equilibrium Ref: Baumol, Chapter 18	
	Readings List	
	Texts Archibald, G.C & Lipsey, R (1990) (Third Edition) An Introduction to a Mathematical Treatment of Economics, New, Delhi, All India Traveller Bookseller, Indian Reprint Baumol, W.J (2009) (Fourth Edition): Economic Theory and Operations Analysis, Prentice Hall, Chapters 2,3,5,7,8,18 Chiang, A. C. & Wainwright (2005) (Fourth Edition): Fundamental Methods of Mathematical Economics, McGraw-Hill. Schaum's Easy Outline of Introduction to Mathematical Economics (2005) References Aliprantis, D C. and S. K. Chakrabarti (1999) Games and Decision Making, Oxford University Press. Renshaw, G (2009) Second Edition): Maths for Economics, Oxford University Press. Sydsaeter, K & Hammond, P.J (1995): Mathematics for Economic Analysis, Pearson edition	

	Paper IIIA: Microeconomics	
	Full Marks 50: Total Lectures 90	
Unit	Topic	Lectures(No)
1	Consumer Theory	25
	Assumptions on preference ordering, indifference curve, marginal rate of substitution and convexity of IC, budget constraint, consumers' equilibrium – interior and corner, Derivation of Demand Curves from ICs, composite good convention. Application: Cash subsidy versus subsidy in kind. Income and price consumption curves Price effect - substitution effect (Hicks and Slutsky), inferior goods and Giffen goods, income effect, ordinary and compensated demand curves. Maddala and Miller, Chapters 4 and 5. Inter-temporal choice (saving and borrowing). Maddala and Miller, Chapter 5 (page 142-145)	

	<p>Revealed preference. Pindyck and Rubinfeld, Chapter 3 (section: 3.4) Choice under uncertainty- utility function and expected utility, risk aversion and risk preference (concepts only)</p>	
2	Production and Costs	15
	<p>Technology, Production Functions and Isoquants, short run and long run, production with one and two variable inputs, total average and marginal products, law of diminishing return, marginal rate of technical substitution, elasticity of substitution, economics of scale. Pindyck and Rubinfeld, Chapter 6 Types of production functions- Cobb-Douglas, fixed-coefficient and CES functions. Cost structure-implicit cost, explicit cost, accounting cost, sunk cost, economic cost, fixed cost, variable cost, total, average and marginal cost. Determinants of Short run cost, Cost Curves, cost minimization and expansion path, Short run versus long run cost curves, economies of scope. Pindyck and Rubinfeld, chapter 7.</p>	
3	Market Structure	30
	<p>Organization, Firms and Profit Maximization. Marginal Revenue, Marginal Cost and Profit Maximization. Perfect competition- short run competitive equilibrium of the firm, short run supply curve of firm and industry, Output choice and competitive equilibrium in long run, Economic rent and profit, long-run industry supply – constant, increasing and decreasing cost. Lipsey and Chrystal Chapter 6 (114-116), Pindyck and Rubinfeld, Chapter 8 Efficiency of competitive equilibrium, Government intervention and dead weight loss, Application – Minimum prices and price supports. Pindyck and Rubinfeld, Chapter 9 (283-285, 288-290, 292-294). Monopoly and barriers to entry – output determination and price rule, measure and sources of monopoly power, social costs of monopoly power – deadweight loss. Pindyck and Rubinfeld, Chapter 10 (319-344). Pricing with market power – first, second and third degree price discrimination. Pindyck and Rubinfeld, Chapter 11 (361-375) Monopolistic competition – short run and long run equilibrium, excess capacity. Pindyck and Rubinfeld, Chapter 12 (414-419) Oligopoly – Oligopoly equilibrium as Nash equilibrium, Cournot and Stackelberg Model, Competition versus collusion – the Prisoners’ Dilemma. Pindyck and Rubinfeld, Chapter 12 (419-437)</p>	
4	Input Markets	10
	<p>Basic concepts-derived demand, productivity of an input, marginal product of an input, marginal revenue product. Marginal productivity theory of distribution. Labor market-supply of labor, competitive labor markets, monopsony, collective bargaining. Land markets and rent. Pindyck and Rubinfeld, Chapter 14. Lipsey and Chrystal, Chapter 10</p>	

5	Other issues related to Market	10
	<p>General Equilibrium and Economic Efficiency - Exchange, production and welfare.</p> <p>Reasons for Market Failure Pindyck and Rubinfeld, Chapter 16</p> <p>Markets with asymmetric information- adverse selection, moral hazards, agency problems (concepts only).</p> <p>Lipsey and Chrystal, Chapter 11 (241-243).</p>	
	Readings	
	<p>Texts</p> <ol style="list-style-type: none"> 1. R S. Pindyck and D.L. Rubinfeld, (2000), Microeconomics, 3rd edition, Prentice Hall, India. 2. G.S. Maddala and E. Miller. 1989. Microeconomics. McGraw-Hill International Editions. (or later edition) <p>References</p> <ol style="list-style-type: none"> 3. Lipsey and Chrystal. 2007. Economics. Oxford University Press. 4. R S. Pindyck, D.L. Rubinfeld and Mehta (2007). Microeconomics, 7Th edition, Prentice Hall, India. 5. H R. Varian. Intermediate Microeconomics, a Modern Approach. Affiliated East-West Press. 6. Satya Chakrabarty. Microeconomics. Allied Publishers. 7. B.D. Bernheim and M.D. Whinston. Microeconomics. McGraw-Hill International Editions. 8. H. Gravelle and R Rees. Microeconomics. Addison Wesley Longman Limited. 9. Anindya Sen. Microeconomics, Oxford University Press. 10. Ferguson and Gould. Microeconomic Theory. All India Traveler Book Sellers. (sixth edition). 	

Paper IIIB: Macroeconomics		
Full Marks 50: Total Lectures 80		
Unit	Topic	Lectures (No)
1	The Economy in the Long Run	15
	<p>The classical analysis of the real sector-determination of employment, income and interest rate.</p> <p>Mankiw Chapter 3.</p> <p>Job Loss, Job finding and Natural Rate of Unemployment. Mankiw Chapter 6 (page 132-35). Hall and Papell Chapter 3 (61-72)</p> <p>Money and Inflation - quantity theory of money, seigniorage and inflation tax, inflation and interest rates, nominal interest rate and demand for money.</p> <p>Mankiw Chapter 7 (161-175).</p>	
2	The Economy in the Short Run	25
	<p>Simple Keynesian analysis of aggregate demand without and with the government sector, multiplier.</p> <p>Mankiw Chapter 10 (256-265). Hall and Papell Chapter 7 (168-180).</p> <p>IS-LM, fiscal and monetary policy.</p> <p>Mankiw Chapter 10 (266- 279), Chapter 11 (282-291); Hall and Papell Chapter 8 (189-209)</p>	

	<p>IS-LM and Aggregate Demand Mankiw Chapter 11 (291-294); Hall and Papell Chapter 8 (209-215) Aggregate supply – Sticky Wage Model and Imperfect Information Model, Aggregate Supply and Phillips curve, Inflation and Unemployment trade off without and with rational expectations. G, Mankiw Chapter 13 (350-353, 357-358, 364-373) Economy wide equilibrium with fiscal and monetary policy, demand and supply shocks, wage price flexibility and rigidity (only definition), Keynesian aggregate supply and Classical Aggregate Supply. S, Sikdar Chapter 8 (120-126).</p>	
3	Foreign Trade and Exchange Rate	10
	<p>Economic Openness with an emphasis on Indian economy, balance of payments, BOP and the Central Bank, Financing Current Account Deficit. Exchange Rate Concepts, Determination of Exchange Rate – fixed and flexible, Importance of Foreign Currency Reserves with reference to India, Domestic Adjustment, BOP Crisis and Speculative Attack, Internal and External Balance under Fixed Rate, Advantages of Flexible exchange and Fixed Rates. Foreign exchange market reform in India, relation of Devaluation with purchasing power parity and inflation, purchasing power parity principle. IS-LM model without capital flows, Open economy with capital flows – the Mundell-Fleming Model. S, Sikdar Chapter 7.</p>	
4	Theories of Consumption and Investment	15
	<p>Consumption - Keynes and consumption function, inter-temporal choice, life cycle and permanent income hypothesis. Investment—business fixed investment, neo-classical approach, Tobin's q, Residential investment and accelerator model of inventories. G, Mankiw Chapters 16 and 17.</p>	
5	Demand for Money	5
	<p>5.1 Demand for money: Portfolio theory of money demand, Baumol-Tobin analysis of cash management. G, Mankiw Chapter 18.</p>	
6	Economic Growth	10
	<p>Solow model, Golden Rule of capital, impact of changes in saving propensity, population growth and technological progress. Growth accounting and Solow residual. G, Mankiw Chapter 4 and Chapter 5 (105-108, 125-130) Endogenous Growth Theory (introduction). G, Mankiw Chapter 5 (118-119)</p>	

Readings**Texts**

1. N. Gregory Mankiw, (2000), Macro-Economics, 4th Edition or latest, Macmillan.
2. Soumen Sikdar. Principles of Macroeconomics. Oxford University Press.

References

3. R.E. Hall and D.H. Papell. Macroeconomics. WWW Norton. (6th edition).
4. Rudiger Dornbusch, Stanley Fischer and Richard Startz, Macroeconomics, 7th (or later) edition, McGraw Hill.
5. Richard Froyen. Macroeconomics. Pearson Education. (9th edition or latest).

Paper IVA: Development Theory		
Full Marks 50 : Total Lectures 80		
Unit	Topic	Number of Lectures
1	Concepts and measures of development	8
	Nature, Questions and Values of Development, Meanings of development – economic growth, redistribution from growth and capabilities approach to development, Objectives of development. Todaro and Smith Chapter 1. Measures of development – Purchasing power parity and Per capita income as an index of development, difference between growth and development, human development index. Thirlwall Chapter 2 (page 30-36, 47). Meier and Rausch Chapter 1 (5-14) Definition of developing economy. Todaro and Smith Chapter 2 (68-71). Characteristics of a developing economy. Todaro and Smith Chapter 2 (80-91). Thirlwall, Chapter 3 (65-77, 80-84).	
2	Process of Development – theoretical perspectives	10
	2.1 Theories of transition – Clark and Fisher on change in sectoral share; Rostow’s stages of growth; Kuznets’s characteristics of Growth; Industrialisation, Growth and Kaldor’s growth laws; The neo-classical approach of market and growth. Todaro and Smith Chapter 3 (119-125, 158-159, 162-165). Thirlwall, Chapter 3 (105-120)	
3	Factors in economic development	10

	<p>Land: Ownership and tenancy system – fixed rent contract and share cropping, role of agriculture in development, barriers to agricultural development and land reforms. Thirlwall Chapter 5 (167-178). Debraj Ray Chapter 12 (415-420, 457-458)</p> <p>Labour – Population and Labor force growth, casual and long term labor, permanent labor market. Todaro and Smith 3 (114-116). Debraj Ray 13 (484-86, 504-506).</p> <p>Capital: Role of capital accumulation in economic development. Significance of capital-output ratio, role of technology and technological progress, learning, human capital. Todaro and Smith 3 (113-114). Thirlwall Chapter 6 (210-226)</p>	
4	Population and Development	4
	<p>Concepts of Population: definitions of fertility, mortality, birth rates, death rates, fertility rate, life expectancy, infant mortality rate, youth dependency ratio. Theory of demographic transition Todaro and Smith Chapter 7 (293-308).</p>	
4	Development strategies	14
	<p>Complementarity and Coordination Todaro and Smith Chapter 5 (184-187). Debraj Ray Chapter 5 (131-136). Poverty Trap of Nurkse and Big Push theory of Rosenstein-Rodan Linkages – backward and forward; linkages, policy and big push. Debraj Ray, Chapter 5 (136-143). Todaro and Smith Chapter 5 (184-193) Choice of technology and choice of scale (large vs small) and criteria for investment. Thirlwall Chapter 12 Gains from Trade – static, dynamic and vent for surplus, tariffs versus subsidies. Prebisch doctrine, Prebisch-Singer thesis and Terms of Trade. Thirlwall 16. Todaro and Smith Chapters 12.</p>	
5	Development in a Labour surplus economy	14
	<p>The concept of economic dualism. Kausik Basu Chapter 7 (151-153). Thirlwall Chapter 7 (234-236) Lewis' model of economic development with unlimited supply of labour, Disguised Unemployment: Types and Measurement. Todaro and Smith Chapter 4 (150-155). Thirlwall Chapter (198-206). The Informal Sector. Todaro and Smith Chapter 8 (358-366). 5.4 Rural-urban migration of labour – Harris-Todaro model Todaro and Smith Chapter 8 (368-381).</p>	
6	Development, Inequality and poverty	14

	<p>Meaning of inequality, inequality measures, Lorenz Curve, Range, Coefficient of variation, Gini-coefficient, Kuznet's Inverted U hypothesis.</p> <p>Poverty, relative and absolute deprivation with respect to income, Poverty line, Poverty measures – Head count ratio, Poverty gap ratio, Income gap ratio, Human Poverty Index.</p> <p>Social dimensions of poverty – rural poverty, women and ethnic minorities and indigenous populations.</p> <p>Todaro and Smith Chapter 6. Debraj Ray Chapters 6, 7 (199-200), 8 (249-256). Thirlwall Chapter 2 (47-54).</p> <p>Tackling Poverty – The World Bank Approach Thirlwall Chapter 2 (41-44).</p>	
7	Environment and development	6
	<p>Development and Environmental – an overview.</p> <p>Meier and Rauch Chapter 10 (588-89)</p> <p>Basic Issues of development and environment - Sustainable development and environment accounting, population and resources, poverty, rural development, urban development, global environment - rain forest destruction and greenhouse gases.</p> <p>Todaro and Smith Chapter 11 (497-507)</p> <p>Policies for Environmental Regulation. Lipsey and Chrystal, Chapter 13 (286-89).</p>	
	<p>Readings</p> <p>Texts</p> <ol style="list-style-type: none"> 1. A.P. Thirlwall. Growth and Development. Palgrave MacMillan. (8th edition or latest) 2. M.P. Todaro and S.C. Smith, "Economic Development". Pearson Education. 3. Debraj Ray. Development Economics. Oxford University Press. <p>References</p> <ol style="list-style-type: none"> 4. Lipsey and Chrystal. 2007. Economics. Oxford University Press. 5. K. Basu. Analytical Development Economics: The Less Developed Economy Revisited. Oxford University Press. 6. G.M. Meier and J.E. Rauch. Leading Issues in Economic Development. Oxford University Press. (8th edition or latest) 7. Y. Hayami, "Development Economics", (Oxford University Press) 8. S. Fukuda-Parr and A.K. Shiva Kumar. Readings in Human Development. Oxford University Press. 	

	Paper IVB: Indian Economy Since Independence	
	Full Marks 50: Total Lectures 80	
Unit	Topic	Lectures (No)
1.	Indian Economy at the time of Independence	2
	Features of Indian Economy around 1947-1950 and characteristics of economic underdevelopment of India (with reference to colonial rule of India)	

	Bipan Chandra in Jalan (ed). Uma Kapila, Chapter 1.	
2.	Planning: Evolution of India's Development Goal and Strategy	30
	The background and Structure of Indian Planning. Uma Kapila, Chapters 1 and 2. Chakravarty, Chapter 1.	
	Structural Constraints and India's development strategy – Choice of industrialization strategies – public vs. private sector, capital goods versus consumer goods – Mahalanobis Plan Model (basic argument), import substitution vs. export promotion strategy. Uma Kapila, Chapter 3. Chakravarty Chapters 2 and 5 (page 69-75).	
	Agriculture-industry relationship – demand side and supply side linkages– agriculture-industry terms of trade - food crisis of the 1960s and imperatives for agricultural growth, genesis of green revolution – fourth plan (basic argument). Chakravarty Chapter 3 and 5 (59-64); Uma Kapila Chapter 11.	
	2.4 Poverty Eradication, foreign aid and self-reliance – Fifth Five Year Plan Model (basic argument) Chakravarty, Chapter 3. Wadhwa Chapters 5 and 7,	
	Regional inequality in India – causes; policies for balanced regional development. Chakravarty Chapter 4 (45-52).	
	Planning deficiencies and its abandonment– 7 th five year plan and Indian economic crisis. Chakravarty Chapter 4 (39-44). Bardhan in Jalan (ed).	
	New Economic Policy – liberalisation, market and state (introduction) Rangarajan in Uma Kapila, Chapter 5. Uma Kapila, Chapter 20. Bardhan in Jalan (ed).	
3	Land and Agriculture	20
	2.1 Land and tenancy system- sharecropping- Different dimensions of Land Reform – Productivity Debate – Marketable Surplus. S.K. Ray in Uma Kapila, Chapter 12. Wadhwa Chapters 19, 20, 21, 22, 23 and 31.	
	2.2 Green Revolution – features of green revolution – positive and negative impacts of green revolution. Performance of Indian agriculture. Vaidyanathan. 1994. Chakravarty Chapter 3 (24-27). Wadhwa Chapters 29 and 30.	
	2.3 Agricultural Policies and Pricing – Agricultural Price commission – support price vs. procurement price – Public investment in agriculture - agricultural subsidies and tax. Hanumantha Rao in Jalan (ed). Uma Kapila Chapter 11. Wadhwa Chapters 24, 25, 26 and 27.	
4	Industrial Development: Evolution, Trade and Policy	18
	4.1. Structure and composition of Industry – issues of concentration, large vs small industry – industrial location. Small scale reservation policy. Trends and patterns of industrial growth. Uma Kapila, Chapter 18. Rakesh Mohan in Jalan (ed).	
	4.2 Foreign trade regime, protection and foreign competition, Productivity; import substitution versus export Competitiveness, effect on export competitiveness. Uma Kapila, Chapter 18. T.N. Srinivasan in Uma Kapila, Chapter 25. Rangarajan in Uma Kapila, Chapter 26.	

	4.3 Industrial Policies – Industrial licensing system. Uma Kapila, Chapter 18. Rakesh Mohan in Jalan (ed). Wadhwa Chapter 16.	
5.	Employment, Wages and Inflation	10
	5.1 The trends and pattern of employment and wages in India – informalisation and tertiarisation of employment - problems of unemployment and under-employment	
	5.2 Government policies on employment and wages and employment – employment guarantee scheme – minimum wage.	
	Movement of prices in India – –trends and patterns – causes, consequences and policies adopted. Papola in Jalan (ed.), Visaria in Jalan (ed). Zagha in Sachs, Varshney and Bajpai (ed.).	
<p>Readings</p> <p>Texts</p> <ol style="list-style-type: none"> Uma Kapila (ed). India's Economic Development Since 1947 (3rd Ed. or latest version). Academic. S Chakraborty. 1987. Development Planning: The Indian Experience. Clarendon Press. Vaidyanathan A.1994. Performance of Indian Agriculture since Independence in Kaushik Basu (ed.) Agrarian Question, Oxford University Press. Bimal Jalan (ed.) The Indian Economy: Problems and Prospects Penguin. <p>References</p> <ol style="list-style-type: none"> C D. Wadhwa. Some problems of India’s Economic Policy, Tata McGraw Hill. J. Sachs, A Varshney and N Bajpai (ed). India in the Era of Economic Reforms. Oxford University Press. I. Judge Ahluwalia. 1985. Industrial Growth in India since the Mid-sixties. Oxford University Press. PC Joshi. 1975. Land Reforms in India: Trends and Perspectives. Allied Publishers: New Delhi. Pramit Chaudhuri. 1979. Indian Economy: Poverty and Development. George Allen and Unwin, London. 		

	Paper VA: International Economics		
	Full Marks 50 : Total Lectures 80		
Unit	Topic		Lectures (No)
1	Basic Models of Trade		10
	Ricardian Model: Comparative advantage. One factor economy: production possibility frontier, relative demand and relative supply and autarkic terms of trade. 1.2 Trade in Ricardian world: determination of international terms of trade, complete specialization, gains from trade.		
	Readings		

	<p>Texts International Economics: Paul R. Krugman, Maurice Obstfeld, (8th Ed.)Chapter 2, Pearson Education</p> <p>References World Trades and Payments: Caves, Frankel, Jones (9th Ed.)Chapter 3, Pearson Education International Economics: Dominick Salvatore (8th Ed.) Chapter 2, Wiley India.</p>	
2	Resources, Comparative Advantage, and Income Distribution	18
	<p>Model of two factor economy: Assumptions, Factor prices and commodity prices (Stolper-Samuelson effect)-correspondence, Resources & output, Rybzynski effect. Effects of International Trade between two factor economies, Relative prices and and the pattern of Trade, Trade and distribution of Income, Factor Price Equalization. Empirical studies - Leontief Paradox.</p> <p>Readings</p> <p>Texts International Economics: Paul R. Krugman, Maurice Obstfeld, Chapter 4(8th Ed.), Pearson Education</p> <p>References International Economics: Dominick Salvatore (8th Ed.) Chapter 5, Wiley India World Trades and Payments: Caves, Frankel, Jones (9th Ed.)Chapter 6,Pearson Education</p>	
3	The Standard Trade Model	16
	<p>Production Possibilities and relative supply, relative prices and demand, welfare effects of changes in terms of trade, determining relative prices. Economic growth: shift of RS curve, growth and production possibility frontier, RS and terms of trade, International effects of growth, Internationaltransfers of income: shifting RD curve, Transfer problem, effects of transferon terms of trade, Tariffs and export subsidies. 2.3 Offer curves: Derivation, International Equilibrium.</p> <p>Readings</p> <p>Texts International Economics: Paul R. Krugman, Maurice Obstfeld, Chapter 5 (8th Ed.), Pearson Education</p> <p>References International Economics: Dominick Salvatore (8th Ed.) Chapter 3, Wiley India.</p>	
4	Trade Policy	18

	<p>Partial equilibrium analysis: Tariff- cost and benefit, effective rate of protection and intermediate goods, quota, tariff- quota equivalence and non-equivalence, export subsidy, voluntary export restraint.</p> <p>General Equilibrium Analysis: Distinction between small and large open economy, welfare effects of tariff in a small country, optimum tariff for large open economy, Metzler's paradox.</p> <p>Tariff & Import Quotas in presence of monopoly.</p>	
	Readings	
	<p>Texts International Economics: Paul R. Krugman, Maurice Obstfeld, Chapter 8 (8th Ed.), Pearson Education</p> <p>References International Economics: Dominick Salvatore (8th Ed.) Chapter 8, Wiley India World Trades and Payments: Caves, Frankel, Jones (9th Ed.)Chapter 10, Pearson Education.</p>	
5	Accounting, Income Determination and Exchange Rates	18
	<p>Balance of payment accounts; national income accounting in an open economy; monetary account;</p> <p>Determination of national Income, multiplier analysis, the transfer problem, introduction of foreign country and repercussion effect.</p> <p>Fixed and Flexible Exchange rates: Adjustments, Demand & Supply of foreign exchange, Effects of exchange rate changes on domestic prices and terms of trade, Marshall-Lerner condition, J-curve effect.</p>	
	Readings	
	<p>Texts International Economics: Paul R. Krugman, Maurice Obstfeld, Chapter 12(8th Ed.), Pearson Education (for 5.1 & 5.2) International Economics: Dominick Salvatore (8th Ed.) Chapter 16, 17 Wiley India (for 5.3)</p> <p>References Open Economy Macroeconomics: R Dornbusch, (International Students Edition), Basic Books, New York. World Trades and Payments: Caves, Frankel, Jones (9th Ed.) Chapter16, Pearson Education.</p>	

Paper VB: Public Finance		
Full Marks 50: Total Lectures 70		
Unit	Topic	Lectures (No)
1.	Introduction to public economics	2
	<p>1.1 The nature, scope and significance of public economics</p> <p>Musgrave and Musgrave Page 3-6. Bhatia Page 17-25.</p>	
2.	Forms and Functions of Government	8
	<p>Different forms of government – unitary and federal. Tiers of government in the federal form- Central, State, Local (Introductory discussion with examples).</p> <p>Functions of Government - Economic functions -allocation, distribution and</p>	

	<p>stabilization.</p> <p>2.3 Regulatory functions of the Government and its economic significance</p> <p>Musgrave and Musgrave Chapter 29, Chapter 1 Page 6-14. Stiglitz in Bagchi (ed.) Chapter 9, page 170-171.</p>	
3	Federal Finance	10
	<p>Federal Finance: Different layers of the government, Inter governmental transfer—horizontal vs. vertical equity.</p> <p>Musgrave and Musgrave Chapter 28, Page 457-461, Misra and Puri Chapter 53, page 694-698, 700-701.</p> <p>Grants—merits and demerits of various types of grants—unconditional vs. conditional grants, tied grants, matching grants.</p> <p>Musgrave and Musgrave, Chapter 28 Page 461—469, Misra and Puri Chapter 53 page 703-705.</p>	
4	Public Goods and Public Sector	10
	<p>Concept of public goods—characteristics of public goods, national vs. local public goods, determination of provision of public good</p> <p>Externality, concept of social versus private costs and benefits, merit goods, club goods.</p> <p>Musgrave and Musgrave, Chapter 4. McGuire in Bagchi (ed.) Chapter 5.</p> <p>Provision versus production of public goods. Market failure and public provision. Pricing of public goods—vertical summation</p> <p>Musgrave and Musgrave, Chapter 5</p>	
5.	Government Budget and Policy	12
	<p>Government budget and its structure – Receipts and expenditure - concepts of current and capital account, balanced, surplus, and deficit budgets, concept of budget deficit vs. fiscal deficit, functional classification of budget. Concept of Revenue Deficit.</p> <p>Bhatia Chapter 4 page 37-39, Chapter 13, page 248-253, Chapter 20 page 460-462; Musgrave and Musgrave Chapter 31, page 534-537, Chapter 12, page 211-216, Chapter 30, page 499-505; Chelliah in Bagchi (ed) Chapter 20.</p> <p>Budget, government policy and its impact. Budget multipliers.</p> <p>Stiglitz, Blinder and Solow, Fisher and Easterly in Bagchi (ed), Chapters 9, 16, 17.</p>	
6.	Revenue Resources	10
	<p>6.1 Concept of tax, types of tax – direct tax and indirect tax, canons of taxation, subsidy, transfer policy.</p> <p>H.L.Bhatia Chapter 4 page 39-49, Chapter 20 page 467-470.</p> <p>Principles of taxation -Ability to Pay principle (brief discussion), Benefit Approach (Actual Examples)</p> <p>Musgrave and Musgrave, Chapter 13, page 218-231</p> <p>Tax Design - introduction – truth seeking mechanism.</p>	

7.	Tax Structure	8
	<p>Effects of income tax on work effort, saving and risk bearing (just brief ideas).</p> <p>Musgrave and Musgrave Chapter 17, page 297-308, 311-312.</p> <p>Excess burden of indirect taxes</p> <p>Musgrave and Musgrave Chapter 16, page 293-295.</p> <p>VAT, Goods and Services Tax (pros and cons).</p> <p>Misra and Puri, 26th edition, page 662-663, Chelliah, Agarwal, Purohit and Rao in Bagchi (ed) Chapter 15.</p> <p>Non-tax revenue resources-earnings from public undertakings, interest on loans.</p>	
8.	Distribution and Stabilization	10
	<p>Instruments for stabilization</p> <p>Musgrave and Musgrave, Chapter 30</p> <p>Public Debt---internal and external.</p> <p>Musgrave and Musgrave Chapter 32, Misra and Puri, Chapter 51.</p> <p>Public Finance and Public Choice: The Role of State.</p> <p>Bagchi (ed), Chapter 24.</p>	
	<p>Readings</p> <p>1. Musgrave and Musgrave: Public Finance in Theory and Practice (Fifth Edition).</p> <p>2. H.L. Bhatia. Public Finance. (Fifteenth Revised Edition).</p> <p>3. Amaresh Bagchi (ed.). Readings in Public Finance. Oxford University Press.</p> <p>4. Misra and Puri. Indian Economy.</p>	

Paper VIA: Comparative Development Experience		
Full Marks 50: Total Lectures 90		
Unit	Topic	Lectures (No.)
1.	International comparisons of development	3
	<p>Differences in initial conditions of development of less developed countries and present day developed countries.</p> <p>Nature of development gap prevailing at present between developed and less developed countries.</p> <p>Ref: Thirlwall Ch1 pp 13-21, Ch 2 pp 23-30.</p>	
2	Genesis of capitalism.	15

	<p>Different types of social organization, feudalism, precapitalist societies other than feudalism, capitalism in the West, development of the Third World Ref: Bagchi, Ch 1 pp 1-18.</p> <p>Industrial revolution in Great Britain - Causes – Why Great Britain became the pioneer? – Characteristics - Effects Ref: P Deane, Ch 1.</p>	
3	Industrialization Experiences in Early Part of 20th Century.	12
	<p>3.1 The Great Debate in Soviet Union on the assignment of priority on development of heavy industry in the process of planned economic development.</p> <p>3.2. The Great Depression of the 1930's and recovery – Experiences of USA and Great Britain. Ref: Maurice Dobb Chapter 8 or Alec Nove Chapter 5. H.U. Faulkner, Chapters 29 and 30. S.W. Southgate, Chap. 14, 35.</p>	
	Post Second World War Development Scenario	20
	<p>Global Change, Welfare state and mixed economy. Post War global institutions: International Monetary Fund, World Bank, United Nations Conference on Trade and Development. Ref: Todaro and Smith Chapter 14 (660-664). Thirlwall Chapter 15 (479-484), Chapter 16 (556).</p> <p>Trade and Strategies of Development: Infant industry, Import substitution versus export promotion in less developed countries. Illustrations from South Asia, Latin America and East Asia. Ref: Meier and Rausch Chapter 3 (144-145), chapter 4(156-162). Todaro & Smith Ch 13 pp 589-601. Thirlwall Chapter 16.</p> <p>Foreign Finance, Investment and Development: Private foreign direct investment and Multinational Corporations, private portfolio investment, development assistance debate. Ref: Todaro & Smith Ch 15. Thirlwall Ch 15.</p>	
5	Development and underdevelopment as historical processes	5
	<p>Dependency Approach. Unequal exchange. Ref: Thirlwall Chapter 7 (252-255). Dos Santos in Goddard, Cronin and Dash (ed.).</p>	
6	Evolution of New international economic order.	24
	<p>Neo liberalism, Washington consensus, North-South Divide, Recasting of IMF and World Bank. Ref: Thirlwall Chapter 15 (479-484), Chapter 17 595-607). Sen Chapter 2. Stiglitz Chapters 1, 2 and 3. Stiglitz in Nayyar (ed).</p> <p>General Agreements on Tariff and Trade (GATT) and the Dunkel Draft controversy-World Trade Organization (WTO). Ref: Sen Chapter 3. Sikdar Chapters 6 (123-131) and Chapter 7. Shukla in Nayyar (ed).</p> <p>Economic Integration and Regional Trading Blocs. Ref: Todaro and Smith Chapter 13 (613-617). Sikdar 6 (146-148, 151-153).</p> <p>Global Polarization. Ref: Samir Amin in Goddard, Cronin and Dash (ed.).</p>	
7	Development policies and role of the state	5

	Nature of Development planning, Rationale for development planning. Ref: Todaro and Smith: Ch 16 pp 714-718. Washington Consensus, New Consensus and the State Ref: Todaro and Smith: Ch 16 pp 736-439.	
8	Some Recent Development Experiences	6
	(i) China, (ii) Africa (iii) Argentina. Ref: Meier and Rausch Chapter 1 (45-51, 62-72). Todaro and Smith Chapter 5 (223-224). Sen, pp 22-28.	
	<p>Readings</p> <p>Texts</p> <ol style="list-style-type: none"> 1. A.P. Thirlwall. Growth and Development. Palgrave MacMillan. (8th edition) 2. M.P. Todaro and S.C. Smith. Economic Development. Pearson Education. 3. G.M. Meier and J.E. Rauch. Leading Issues in Economic Development. Oxford University Press. (8th edition or latest). 4. Sunanda Sen. 2007. Globalisation and Development, National Book Trust, India 5. C. Roe Goddard, Patrick Cronin and Kishore C. Dash. (ed). International Political Economy. Viva Books Private Limited. (articles by Theotonio dos Santos and Samir Amin). (2nd edition). 6. Maurice Dobb. Soviet Economic Development since 1917. Chap. 8. Routledge and Kegan Paul. 7. H.U. Faulkner. American Economic History. Chap. 29 – 30. Harper and Row. 8. G.W. Southgate. English Economic History. Chap. 14, 35 J.M. Dent and Sons Ltd. 9. Phyllis Deane. The First Industrial Revolution. Cambridge University Press 10. A.K. Bagchi. The Political Economy of Underdevelopment. Orient Longman. <p>References</p> <ol style="list-style-type: none"> 11. J. Stiglitz. Globalisation and its Discontents. Penguin. 12. Soumyen Sikdar. Contemporary Issues in Globalisation. An Introduction to Theory and Policy in India. Oxford University Press. 13. D. Nayyar. 2002. Governing Globalisation, Issues and Institutions. Oxford University Press. 14. Alec Nove. An Economic History of the USSR. Penguin Books. 	

	Paper VIB: Contemporary Economic Issues: India and West Bengal	
	Full Marks 50: Total Lectures 80	
Unit	Topic	Lectures (No)
Group A	Contemporary Economic Issues –India. Marks: 30	
1.	Economic Reform in India Since 1991	20

	<p>1.1. Background of Indian Economic Reforms – New Economic Policy. Redefining India’s development strategy. Changing Role of State and Market. Rangarajan in Uma Kapila, Chapter 5. Economic Survey 2009-10, Chapter 2 (21-24). Uma Kapila, Chapter 20.</p> <p>Industrial Policy, Disinvestment policy and Privatization. Basu and Maertens (page 141-146, 350-354, 366-371). Rangarajan in Uma Kapila, Chapter 21. Ahluwalia in Sachs, Varshney and Bajpai.</p> <p>Financial sector reforms including banking reform. Monetary Policy of RBI. Basu and Maertens (246-251, 219-225, 255-261). Joshi and Little, Chapter 4. Ahluwalia in Sachs, Varshney and Bajpai.</p> <p>Fiscal Policy Reform – tax reform, debt management, FRBM act and subsidies. Basu and Maertens (357-366, 141-146), Vijay Joshi in Ahluwalia and Little (ed). Ahluwalia in Sachs, Varshney and Bajpai.</p> <p>External sector reforms: Foreign Exchange market, balance of payments, reform, convertibility, export-import policy, foreign direct investment. Basu and Maertens (280-299, 305-307). Uma Kapila Chapter 24. Ahluwalia in Sachs, Varshney and Bajpai.</p>	
2	Agriculture, Poverty and Social Security	13
	<p>Post-reform Agricultural Performance and its Crisis. Basu and Maertens (59-65, 83-86). Mahendra Dev, Chapter 2. Rao and Jeromi in Uma Kapila, Chapter 13. Vaidyanathan in Uma Kapila, Chapter 14.</p> <p>Poverty and exclusion, NREGA, social security for unorganized workers and forest policy. Basu and Maertens (543-555, 110-113, 428-431, 86-89). Mahendra Dev Chapters 4 and 8. Vaidyanathan in Uma Kapila, Chapter 33.</p>	
3	Post-reform performance of Indian Economy	4
	<p>3.1 Appraisal of Indian Economic Reform. India’s Growth Experience. Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai.</p>	
4.	Indian economy: Some Current and Future Issues	18
	<p>Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24). Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007.</p> <p>Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 62-66), Chapter 5. Hanumantha Rao in Uma Kapila, Chapter 15. Economic Survey 2009-10, Chapter 8 (198-204) (or latest issues).</p> <p>Migration and Urbanization. Basu and Maertens (443-447). Agarwal, Chapter 7 (86-101) Land acquisition, SEZ and Industrialisation. Basu and Maertens (103-109, 164-68), Aradhana Agarwal 2006, Swapna</p>	

	Banerjee-Guha 2008. 4.6 Demographic dividend. Basu and Maertens (415-421). Chandrasekhar, Ghosh and Roy Choudhury (2006). Uma Kapila, Chapter 9.	
Group B	Contemporary Economic Issues -West Bengal Marks – 20	
5	West Bengal Economy: An Overview	10
	5.1 West Bengal Economy Structure and Growth – based on state domestic product (SDP) data and employment data from National Sample Survey and Census of India.	
	5.2 West Bengal Economy in relation to India and major states in recent decades: in terms of indicators on - per capita SDP, per capita consumption (rural and urban), income growth, human development.	
6	Growth and Development of West Bengal Economy	15
	6.1 Land Reforms, agricultural growth and related current problems- growth of non-farm rural sector	
	6.2 Industrial development – problems and prospects; Tertiary sector growth – Informalisation in manufacturing and tertiary sectors.	
	6.3 Poverty alleviation, Employment generation, self-help-group and social security: Problems and policies	
Readings For India:		
Texts		
1. K. Basu and A. Maertens. The Concise Oxford Companion to Economics in India. Oxford University Press.		
2. Uma Kapila (ed). India's Economic Development Since 1947 (3rd Ed. or latest version). Academic.		
3. S. Mahendra Dev. 2007. Inclusive Growth in India. Oxford University Press.		
4. Agarwal, A.N. 2003, Indian Economy: Problems of Development and Planning (29 th Edition) Wishwa Prakashani		
References		
4. M.S. Ahluwalia. 2002. “Economic Reforms in India since 1991: Has Gradualism Worked?” The Journal of Economic Perspectives, Vol. 16, No. 3.		
5. I.J. Ahluwalia & I.M.D. Little (ed.). 1999. India’s Economic Reforms and Development, Essays in honour of Manmohan Singh, Oxford University Press, New Delhi.		
6. V. Joshi and I.M.D. Little. India’ Economic Reforms 1991-2001. Oxford University Press.		
7. M Rakshit. 2007. “Services-led growth: The Indian Experience” in Money and Finance, February.		
8. C.P. Chandrasekhar, J. Ghosh and A Roy Choudhury. 2006. “The Demographic Dividend and Young India’s Economic Future,” in Economic and Political Weekly, 9 December.		
9. G S Bhalla. 2004. Globalisation and Indian Agriculture: State of the Indian Farmer. Academic Publishers: New Delhi.		
10. Government of India (annual) Economic Survey of India (Current years), also see Economic Survey 2009-10, Chapter 2.		
11. Aradharna Agarwal. 2006. Special Economic Zones: Revisiting the Policy Debates. Economic and Political Weekly. November 4.		

12. Swapna Banerjee-Guha. 2008. Space Relations of Capital and Significance of New Economic Enclaves: SEZs in India. Economic and Political Weekly. November 22.
13. J. Bhagwati. India in Transition. Clarendon Press.
14. J. Sachs, A Varshney and N Bajpai (ed). India in the Era of Economic Reforms. Oxford University Press.

For West Bengal:

1. Montek Singh Ahluwalia, 2006, "Economic Performance of States in Post Reform Period", Economic and Political Weekly (May 6).
2. B B Bhattacharyya & S Sakthivel, 2004, "Regional Growth and disparity in India – Comparison of Pre and Post Reform Decades", Economic and Political Weekly (March 6)
3. Ratan Khasnabis, 2008, "The Economy of West Bengal", Economic and Political Weekly (December 27)
4. A. Raychaudhuri & Tuhin Das (ed.). 2005. West Bengal Economy: Some Contemporary issues, Allied Publishers
5. Economic and Political Weekly, 1998, 33 (47-48) articles on West Bengal Economy
6. West Bengal Human Development Report, 2004, Oxford University Press
7. B Rogaly, B Barbara Hariss-White and S Bose. 1999. Sonar Bangla? Agricultural Growth and Agrarian Change in West Bengal and Bangladesh. Sage Publications.

Paper VIIA: Statistics & Basic Econometrics		
Full Marks 50: Total Lectures 90		
Unit	Topic	Lectures (No)
1	Joint Probability Distribution	10
	Joint Probability Distribution – Idea of Independence, Marginal and Conditional Distribution. Expectation of the product of two variates.	
2	Sampling Theory	5
	Population and Sample, Parameter and Statistic, Random Sampling - Methods of Drawing Random samples –with replacement and without replacement, Random sampling Numbers. Sampling Distribution, Standard Error. Mathai & Rathie – Probability and Statistics Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I	
3	Sampling Distribution	15
	Sampling Distributions associated with Normal Population, Expectation and Standard Error of Sample Mean for with replacement and without replacement random samples, Chi-Square Distribution, Student t Distribution, F-Distribution (definition and important properties only-Idea of degrees of freedom. Mathai & Rathie – Probability and Statistics Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I	
3	Classical Statistical Inference	25
	Estimators-Desirable properties of estimators -Unbiasedness, Minimum Variance, Consistency and Sufficiency Point Estimation - Maximum Likelihood Estimators and their properties – Maximum Likelihood estimation of the parameters of Binomial, Poisson and Normal Distributions.	
	Confidence Intervals -Testing of Hypothesis -p-Values -Type-I and Type -II Errors Simple applications of tests for the Mean and Variance of a Univariate Normal Population. Mathai & Rathie – Probability and Statistics Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I	
5	Elementary Econometrics	25

	<p>5.1 Classical Linear Regression Model (CLRM): Specification of the Model- Assumptions- Linearity in variables and parameters, Estimation of the Error Variance</p> <p>5.2. Gauss Markov Theorem, Goodness of fit: R square –Coefficient of Determination</p> <p>Inference in the Linear Regression Model- Confidence interval for the parameters and the Testing of Hypotheses -Prediction with the Simple Regression model.</p> <p>Concepts of Heteroscedasticity and Autocorrelation problems.</p> <p>G.S. Maddala – Introduction to Econometrics D. Gujarati – Basic Econometrics.</p>	
6	Time Series Data	10
	<p>6.1 Time Series: Introduction, Components, Measurements: Secular Trend (Free hand curve fitting, Moving averages, fitting mathematical curves), Seasonal fluctuation (monthly averages, ratio to moving averages, ratio to trend)</p> <p>Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol II</p>	
	Readings	
	<p>Text</p> <ol style="list-style-type: none"> 1. Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol I & II, World Press Private Limited 2. Mathai & Rathie – Probability and Statistics, The Macmillan Company of India Limited 3. G.S. Maddala – Introduction to Econometrics. Wiley Publishers (Indian edition). 4. D. Gujarati – Basic Econometrics, Tata McGraw-Hill Publishing Company Limited 	
	References	
	5.Earl K. Bowen & Martin K. Starr, Basic Statistics for Business and Economics, McGraw Hill International Student Edition.	

	Paper VIIB: Applied Economics	
	Group A: Application of Economics to Managerial Issues	
	Full Marks 50 : Total Lectures 75	
Unit	Topic	Lectures (No)
1	Nature and Scope of Managerial Economics	5
	Nature and Scope of Managerial Economics; Basic Economic Tools in Managerial Economics: Opportunity Cost Principle,	

	<p>Incremental Principle, Principle of Time Perspective, Discounting Principle and Equi-marginal Principle; 1.3 Managerial Economist- Role and Responsibilities. Ref: Varshney and Maheshwari Ch-1,2,3 (page 1-27).</p>	
2	Demand, Cost and Profit Analysis	15
	<p>Demand Analysis: Demand Estimation for major consumer durables, non-durable products; Demand forecasting techniques. Ref: Keat and Young Ch-5,6 (188-288)</p> <p>Cost Estimation Ref: Keat and Young Ch-8 (355-417)</p> <p>Cost-Volume-Profit Analysis (Break-Even Analysis) : What is C-V-P Analysis? Objectives of C-V-P Analysis, Assumptions of C-V-P Analysis Determination of Break-even point, Profit-Volume Graph, Profit-Volume Ratio, Margin of Safety, Uses and Applications of Break-Even Analysis, Limitations of C-V-P Analysis. Ref: P.L. Mehta Ch-20 p-405 to 450.</p>	
3	Organizational Design, Principal-Agent Analysis & Incentive Design	10
	<p>The Nature of the Firm, the Breadth of the Firm, Assigning Decision-Making Responsibilities, Monitoring & Rewarding performance, Separation of Ownership & Control in the Modern Corporation. Ref: Samuelson & Marks Ch-15 (641-677). And Anindya Sen Ch-7 (105-112), ch-15 (246-250)</p>	
4	Pricing Policies and Practices:	10
	<p>Factors Governing Prices, Objectives of Pricing Policy, Price Leadership, Full – Cost Pricing, Mark-up Pricing, Limit Pricing, Marginal Cost Pricing or Variable Cost Pricing, Rate of Return Pricing, Going-Rate Pricing, Peak-Load Pricing, Cyclical Pricing, Pricing over the life-cycle of a product (a) Skimming Price (b) Penetration Price (c) Pricing in Maturity; Product-line pricing, Price Discounts and Differentials, Price Forecasting. Ref: P.L. Mehta Ch-15, 16, 17 (329-378).</p>	
5	Capital Budgeting	10
	<p>What is Capital Budgeting? Need for Capital Budgeting; Different Steps in the Capital Budgeting Process; Nature of Capital Budgeting Problem; Capital Budgeting Appraisal Methods (a) Payback Method (b) Accounting Rate of Return Method (c) Net Present Value Method (d) Internal Rate of Return Method (e) Benefit-Cost Ratio Method; Comparison between NPV and IRR Methods; Capital Rationing; Alternative Methods of Financing Investments. Ref: P.L. Mehta Ch-21 (451-484).</p>	
6	Cost of Capital	7
	<p>Cost of Debt Capital, Cost of Preference Share Capital, Cost of Equity Capital, Cost of Retained Earnings, Average Cost of Capital, The Opportunity Cost Concept – Borrowing Rate vs. Lending Rate. Ref: Varshney and Maheshwari Ch-29 (358-368) or P.L. Mehta Ch-22 (485-491).</p>	

7	Inventory Management	10
	Inventory Costs, Concept of Average Inventory; Various Inventory Models: (a) Economic Order Quantity (EOQ) (b) Optimum number of Orders per year (c) Optimum no. of Days' Supply per Order; Quantity Discounts – Cost Comparison Approach; EOQ Concept and Production Processes. Ref: Varshney and Maheshwari Ch-41 (473-481) or P.L. Mehta Ch-12 (254-269).	
8	Corporate Governance	8
	Role of Institutional Investors, Mechanisms and Controls – Internal and External Govt Controls, Problems of Corporate Governance, Role of Accountant, Regulation – Rules & Principles, Enforcement, Action beyond obligation, Corporate Governance Models with emphasis on Anglo American Model, Impact of Corporate Governance on Firm Performance. Ref: Anindya Sen Ch-7, (112-119). Thomas Clarke- International Corporate Governance, Routledge	
	Readings	
	Texts 1. Varshney, R.L and Maheshwari, K.L - Managerial Economics, Sultan Chand, New Delhi 2. Keat, Paul G and Young, Philip K.Y - Managerial Economics, Pearson Education, New Delhi 3. Mehta, P.L - Managerial Economics, Sultan Chand, New Delhi 4. William F. Samuelson and Stephen G. Marks – Managerial Economics. Wiley Student Edition. 5. Thomas Clarke – International Corporate Governance Routledge, 2007. 6. Anindya Sen – Microeconomics, Oxford University Press. References 7. Debroy, Bibek - Managerial Economics, All India Management Association & Global Business Press 8. James A. Brickley, Clifford W. Smith, Jr., and Jerold L. Zimmereman - Managerial Economics & Organizational Architecture, Tata McGraw Hill. 9. Colley, J, Doyle, J, Logan, G & Stettinius, W – What Is Corporate Governance, McGraw Hill, New York 10. Monks, Robert A G & Minow, Nell - Corporate Governance, Blackwell. 11. Bhattacharya, Harasankar and Sarkhel, Jaydeb – Managerial Economics, Book Syndicate Pvt Ltd, Kolkata	

Paper VIIB: Applied Economics		
Group B: Mathematical Economics		
Full Marks 50: Total Lectures 75		
Unit	Topic	Lectures (No)
1	Theory of the Consumer	10
	Utility maximization, Lagrangian multiplier, Indirect Utility function, Roy's Identity, Derivation of Slutsky's equation, Slutsky's Equation in elasticity form, Compensated demand curve	

	Different forms of Utility Function—Separable, quasi-linear, homogeneous and homothetic Labour-leisure choice Ref: Simon & Blum, Chapter 22 Section 22.1, Chiang & Wainwright, Chapter 12, Silberberg & Suen, Chapter 10	
2	Theory of the Firm	15
	Output maximization, Cost minimization, Homogeneous and homothetic production functions, Elasticity of substitution, CES production function, Relationship between average cost and marginal cost Factor demand curves, output elasticity, Analysis of firms in competitive equilibrium and monopoly, imposition of taxes Analysis of factor demands in the long run Fixed coefficient production functions, Leontief Input-Output system. Ref: Simon & Blum, Chapter 22 Section 22.2, Chiang & Wainwright, Chapter 12, Silberberg & Suen, Chapter 4	
3	Games and Decisions	10
	Two person matrix games, solving matrix games with mixed strategies Sequential Games and Decisions Ref: Aliprantis & Chakrabarti, Chapter 2,3,4	
4	Inter-temporal Choice Theory	5
	4.1 n-period utility maximization, Time preference, Stocks and flows Ref: Silberberg & Suen, Chapter 12	
5	Behaviour under uncertainty	5
	Uncertainty and Probability, State preference approach for preferences Expected Utility Hypothesis, Risk aversion and its measures. Ref: Silberberg & Suen, Chapter 13	
6	Comparative Statics	10
	Generalisation to n variables: First and Second order conditions Profit maximisation: n factors and Utility Maximisation National Income Model, IS-LM Model 6.2 Simple Trade Models Ref: Silberberg & Suen, Chapter 6, Chiang & Wainwright, Chapter 8.	
7	Application of Difference and Differential Equations	20
	Cobweb Model Multiplier-Accelerator Interaction Model Linear Systems via Eigen values Solution of linear systems by substitution Phase diagrams of linear systems Solow model. Ref: Chiang & Wainwright, Chapter 17, 18	
	Readings:	
	Aliprantis, D C. and S. K. Chakrabarti (1999) Games and Decision Making, Oxford University Press. Chiang, A. C. and Wainwright (2005) (Fourth Edition): Fundamental Methods of Mathematical Economics, McGraw-Hill. Silberberg, E and W. Suen (2001) (Third Edition): The Structure of Economics, A Mathematical Approach, McGraw-Hill.	

	Simon, C.P and L. Blume (1994): Mathematics for Economists, Norton & Company Schaum's Easy Outline of Introduction to Mathematical Economics (2005)	
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Paper VIIIA: Indian Economic History		
Full Marks 50 : Total Lectures 55		
Unit	Topic	Lectures (No)
1	Economic condition in India on the eve of British rule	3
2	Aspects of Economic Policies under in British India	25
	2.1 Land policy	
	2.2 Policy of Discriminating Protection	
	2.3 Early Industrial Development and Managing Agency System	
	2.4 Currency and monetary policy	
	2.5 Infrastructure and Transport	
3	Impact of British rule on India	25
	3.1 Deindustrialisation	
	3.2 Commercialisation of agriculture	
	3.4 Economic Drain	
4	Early Economic planning initiatives during British rule	2
	Readings 1. Dharma Kumar (ed). Cambridge Economic History, Vol II. 2. V B Singh (ed.). Economic History of India (1857-1956). 3. Dhires Bhattacharyya. Concise Economic History of India. 4. D R Gadgil. Industrial Evolution of India in Recent Times. 5. A K Bagchi. Private Investment in India (1900-1939). 6. Bipan Chandra. Rise of Economic Nationalism. 7. Rothermund, Dietmar. 1988. An Economic History of India, From Pre-colonial times to 1986, Croom Helm, London. 8. Tirthankar Roy. The Economic History of India 1857-1947. Oxford University Press. (2 nd edition).	

Paper VIIIB : Term Paper		
Full Marks 50 : Total Lectures: 15		
Unit	Topic	Lectures (No)
	The college should arrange for 10 to 15 lectures to inform the students on the method of preparing for and writing the term paper.	

Syllabus for BA/BSC (General)

Paper IA: Microeconomics I		
Full Marks 50: Total Lectures 45		
Unit	Topic	Lectures (No)
1	Economics and Microeconomics	8
	<p>What is economics? Branches of Economics. What is microeconomics?</p> <p>Economic agents and their activities as consumer, producer, investor.</p> <p>Concepts of demand and supply, and markets.</p>	
2	Demand and Consumer Behaviour	19
	<p>What is demand? Law of Demand - Demand curve and its foundation in consumer behaviour</p> <p>Utility Approach: Total and Marginal Utility-Law of Diminishing Marginal Utility -. Relation between Law of Demand and Law of Diminishing Marginal Utility.</p> <p>Indifference Curve Approach: Definition and Characteristics- Consumer's,- Equilibrium- income Effect and Substitution Effect-Price Effect.</p> <p>Elasticity of Demand: Price Elasticity and Income Elasticity of Demand, Measurement of Price Elasticity.</p>	
3	Producer's Behaviour	18
	<p>Concept of production –raw material and factors of production- technology – organization of production – large scale vs. small scale production.</p> <p>Production technology and production Function – total product, average product, marginal product (with numerical example) - Returns to Factor and Returns to Scale.</p> <p>Cost of Production: Real Cost and Opportunity Cost-Fixed and Variable cost; Cost curves -Shape of Cost Curves (Short-run and Long run)-Relation between Average Cost and Marginal Cost.</p> <p>Revenue - Total Revenue, Average revenue, Marginal Revenue -Relation between Average Revenue, Marginal Revenue and Price Elasticity of Demand.</p>	
	Readings	
	<ol style="list-style-type: none"> 1. Stonier, A. W. and D.C. Hague: A Text Book of Economic Theory, Longman Group, London. 2. Samuelson, P.A. and William D: Economics, McGraw Hill Book Co., Nordhaus, Singapore. 3. Lipsey, R.G.: An Introduction to Positive Economics, Weidenfeld and Nicholson, London. 	

Paper IB: Macroeconomics I		
Full Marks 50: Total Lectures 45		
Unit	Topic	Lectures (No)
1	National Income Accounting	7
	National Income Concepts: Distinction between Goss DomesticProduct, Net Domestic Product and Net National Product Different Methods of Measuring National Income.	
2	Money and Banking	14
	Concept and Functions of Money- Value of Money-Money supply – components of money supply (M1, M2, etc) Quantity Theory of Money: Fisher's Version and Cambridge Version Banking: Functions of Commercial Banks: Credit Creation –role in money supply –Functions of Central Banks: Credit Control Methods.	
3	Consumption and Investment	14
	Concept of aggregate consumption – private vs public consumption - Keynesian Consumption Function -Relation between Average and Marginal Propensity to Consumer-Multiplier Theory Concept of aggregate investment – components of investment – aggregate investment function and determinants of investment	
4	Government sector	10
	Transactions of the Government sector -Budget – receipts and expenditures –revenue account and capital account Principles of Taxation: Direct and Indirect Taxation –Regressive, Progressive and Proportional Taxation Public Debt- Internal & external –purpose and implications	
	Readings	
	1. Stonier, A.W. and D.C. Hague. : A Text Book of Economic Theory,Longman Group, London	
	2. Lipsey & Chrystal : An Introduction to Positive Economics	
	3. Gupta, S.B. : Monetary Economics, S.Chand & Co;New Delhi.	

Paper IIA: Microeconomics II		
Full Marks 50: Total Lectures 45		
Unit	Topic	Lectures (No)
1	Theory of Markets	
	Concepts of Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly. Short-run and Long-run Equilibrium under perfect Competition at theFirm level, as well as industry level. Idea of price discrimination. Price and Output Determination under Monopoly.	20
2	Theory of Distribution	25
	2.1 Marginal Productivity Theory of Distribution-Factor Price	

	<p>Determination. Rent: (a) Ricardian Theory, (b) Modern Theory. Wage: Distinction between Money Wage and Real Wage-Factors Determining Real Wage-Role of Trade Union in Wage Determination under competitive set up. Interest: Real and Money Interest Loanable fund and liquidity preference theory of interest. Profit: Alternative theories of profit.</p>	
	Readings	
	<p>1. Stonier, A. W. and D.C. Hague: A Text Book of Economic Theory, Longman Group, London. 2. Samuelson, P.A. and William D: Economics, McGraw Hill Book Co., Nordhaus, Singapore. 3. Lipsey, R.G.: An Introduction to Positive Economics, Weidenfeld and Nicholson, London.</p>	

Paper IIB: Macroeconomics II		
Full Marks 50: Total Lectures 45		
Unit	Topic	Lectures (No)
5	Theories of Income and Employment	15
	<p>Concept of Classical Theory of Employment and output-Say's Law of markets. Simple Keynesian theory of Income and Employment: Concept of Effective Demand.</p>	
6	Prices and Inflation	15
	<p>Concept of price index –alternative price indices and measurements of inflation rate Concept of Inflation, Deflation and Stagflation: Inflationary Gap - Distinction between Demand-pull and Cost-Push Inflation Anti-Inflationary Monetary and Fiscal Policies -Effects of Inflation</p>	
7	External Sector	15
	<p>International Trade: Distinction between Internal and International Trade – exports and imports in goods and services. Basis of Trade: Concepts of absolute advantage and comparative Advantage -Arguments for Free Trade – Argument for Protection.</p>	
	Readings	
	1. Stonier, A.W. and D.C. Hague. : A Text Book of Economic Theory, Longman Group, London	
	2. Lipsey & Chrystal : An Introduction to Positive Economics	
	3. Gupta, S.B.: Monetary Economics, S.Chand & Co; New Delhi.	

Paper IIIA: Indian Economy I		
Full Marks 50 : Total Lectures 45		
Unit	Topic	Lectures

		(No)
1	Indian Economy –An Overview	9
	The structure of Indian Economy – its sectoral composition, rural- urban dimension –India’s per capita income – relative position relation to developed and underdeveloped economies Features and Causes of Underdevelopment of the Indian Economy	
2	NI Trends	8
	National Income of India: Trend, Estimation and Distribution.	
3	Demography	10
	The trends and pattern of population growth –age distribution – demographic rates and population projection The nature of population problem in India and government policies related to population	
4	Dualism	8
	Dualism, in the Indian Economy: Poverty Line-Poverty Eradication Programmes in India.	
5	Indian Planning	10
	5.1. Background for Indian Planning and Planning process and institutions 5.2 Objectives, achievements and failures of India's Five-year Plans (broad outline)	
	Readings	
	1.Dutta, R. & K.P.M. Sundaram : Indian Economy, S. Chand & Co. New Delhi.	
	2.Misra, S.K. & V.K. Puri : Indian Economy, Himalayas Publishing Co. Mumbai	
	3.Agarwal, A.N.: Indian Economy, Vikash Publishing Co. Delhi.	
	4.Gupta, S.B.: Monetary Planning in India Oxford University Press, Delhi.	
	5.Dhar, P.N. : Indian Economy.	

Paper IIIB: Indian Economy II		
Full Marks 50: Total Lectures 45		
Unit	Topic	Lectures (No)
1	Indian Agriculture	10
	Characteristics of Indian Agriculture: Causes of Low Productivity. Land Reforms: Meaning, importance. Evaluation of the Programmes. New technology and Green Revolution and its effects Effects of Economic Reforms on Indian Agriculture.	
2	Indian Industry	10
	Structure of Indian industry -Role of Cottage, Small-scale and Large-scale Industries in India's development. Problems and strategies of industrial development EconomicDevelopment -Problems and Solutions. I	

	2.3 Industrial Labour, Industrial Finance, Industrial Policy.	
3	Finance in India	8
	Financial Markets and Financial system in India Banking: Role of Indian Commercial Banks - Credit Control Policy of Reserve Bank of India	
4	Indian Public Finance	10
	Central and state budgets – revenue account and capital account - Sources of Revenue of Union and State Governments –direct and indirect tax – major heads of expenditures – plan vs. non-plan expenditures Union-State Financial Relation – Role of Finance Commission of India.	
5	India's Foreign Trade	7
	Importance of foreign trade for Indian Economy India's Foreign Trade: Change in volume and direction of trade in the post liberalisation period.	
	Readings	
	1. Dutta, R. & K.P.M. Sundaram: Indian Economy, S. Chand & Co. New Delhi.	
	2. Misra, S.K. & V.K. Puri: Indian Economy, Himalayas Publishing Co. Mumbai	
	3. Agarwal, A.N: Indian Economy, Vikash Publishing Co. Delhi.	
	4. Gupta, S.B: Monetary Planning in India Oxford University Press, Delhi.	
	5. Dhar, P.N: Indian Economy.	

Paper IVA: Development Economics I		
Full Marks 50: Total Lectures 45		
Unit	Topic	Lectures (No)
1	Distinction between Economic Growth and Economic Development: Net National Income and Per Capita Income as Growth Indicators- Concept Of HDI.	10
2	Development Planning & its necessity -balanced vs. unbalanced growth. Complementary Roles of Agriculture and Industry -Role of Technology in Agriculture and Industry.	10
3	Population and Economic Development: The Two Way Relation. Domestic Capital Formation in an Underdeveloped Country: The Problems -Incentives for Savings and Investment.	10
4	Foreign Investment: Different forms -Their roles in Economic Development. Role of IMF & World Bank in economic development of the LDCS.	10
5	Gender Related Issues.	5

	Readings	
	1. Todaro, M.P.: Economic Development in the Third World, Longman, New York.	
	2. Salvatore, D. and E. Dowling: Development Economics, Schaum's, Outline Series in Economics, McGraw Hill, New York.	
	3. Agarwala, A.N. and S.P. Singh: Economics of Underdevelopment, (eds.) Oxford University Press, London.	
	4. Meier, G.M. (ed.): Leading Issues in Economic Development, Oxford University Press, New York.	
	5. United Nations Development Programme, Human Development Report (Recent Years)	
	6. Todaro, M.P. : Economic Development in the Third World, Longman, New York. 7. Salvatore, D. and E. Dowling : Development Economics, 8. Schaum's Outline Series in Economics, McGraw Hill, New York. 9. Agarwala, A.N. and S.P. Singh : Economics of Underdevelopment, (eds.) Oxford University Press, London. 10. Meier, G.M. (ed.) : Leading Issues in Economic Development, Oxford University Press, New York. 11. United Nations Development Programme, Human Development Report (Recent Years)	

	Paper IVB: International Economics & Statistics	
	Full Marks 50: Total Lectures 45	
Unit	Topic	Lectures (No.)
Group A	International Economics. Full Marks: 25	
1.	Comparative Advantage and Protectionism: Principle of Comparative advantage, Ricardo's analysis, Economic Gains from trade, Graphical Analysis of comparative advantage, Equilibrium Price ratio, Extensions to many commodities and countries, Protectionism: Supply and demand analysis of trade and tariffs, Free Trade, Trade barriers, Prohibitive Tariff, Non-prohibitive Tariff, Quotas, Economic costs of tariff. Arguments for protection	12
	Readings: Economics: Samuelson & Nordhaus, Tata McGraw_Hill, Chapter 35	
2.	Balance of Payments: Debits and Credits, Balance on Current Account and Capital Account, Exchange rates and Balance of Payments	7
	Readings:	

	Economics: Samuelson & Nordhaus, Tata McGraw_Hill,Chapter 34, pp 682 - 685	
Group B	Statistics. Full Marks: 25	
1.	Data – Classification and presentation, Population and Sample, Collection of Data - Variable and Attribute, Frequency Distribution – Diagrammatic representation of frequency distribution – Cumulative frequency - Ogive.	10
2.	Central Tendency- Arithmetic Mean, Median and Mode (for both grouped and ungrouped data)	9
3.	Dispersion: Range and Standard Deviation, Measures of Relative Dispersion – Curve of Concentration, Concepts of Measurement of Economic Inequality: Lorenz Curve.	7
	Readings:	
	1. Basic Statistics: Goon, Gupta, DasGupta, The World Press Pvt. Ltd., 2. Statistical Methods: N.G. Das, Vol. I, Paperback 1 st Edition, Tata McGraw-Hill, 3. Basic Statistics: Basic Statistics (s) 2nd Edition. R. K Das, A I Nagar Oxford University, Paperback.	