UNIVERSITY OF CALCUTTA

SYLLABI

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THREE-YEAR HONOURS & GENERAL DEGREE COURSES OF STUDIES



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

Part I

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

Year	Paper No.	Paper Name	Comments	Marks
1 st Year				200
1 1001	Paper IA	Microeconomic Principles		50
	Paper IB	Macroeconomic Principles		50
	Paper IIA	Statistics for Economics		50
	Paper IIB	Mathematics for Economics		50
2 nd Year				200
	Paper IIIA	Microeconomics		50
	Paper IIIB	Macroeconomics		50
	Paper IVA	Development Theory		50
	Paper IVB	Indian Economy Since		50
		Independence		
ard xz				400
3 rd Year	D 17.4	7 15		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.	

			Group A Applications of Economics to Managerial Issues or Group B Mathematical Economics	
Pape	erVIIIA	Indian Economic History		50
Pape	erVIIIB			50
		Term Paper		

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
1 st Year				100
	Paper IA	Microeconomics I		50
	Paper IB	Macroeconomics I		50
2 nd Year				200
	Paper IIA	Microeconomics II		50
	Paper IIB	Macroeconomics II		50
	PaperIIIA	Indian Economy I		50
	PaperIIIB	Indian Economy II		50
3 rd 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
	1.1 Normative Economics and Positive Economics - Methodology	
	1.2 Wants, Scarcity, Competing Ends and Choice - Defining Economics	
	1.3 Basic Economic Questions, Microeconomics and Macroeconomics.	
	Lipsey, Chapter 1 and Chapter 4. Mankiw, chapter 2.	
	1.4 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	
	1.5 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.	
2	Market and Adjustments	25
	2.1 The Evolution of Market Economies. Price System and the Invisible	
	Hand.	
	Lipsey Chapter 5, (page 59-61).	
	2.2 The Decision-takers – households, firms and central authorities	
	2.3 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.	
	2.4 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).	
	2.5 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.	
	2.6 Equilibrium and Disequilibrium	
	2.7 Market Adjustment without Government (with illustrations)	
	Mankiw, Chapter 4. Lipsey and Chrystal, Chapter 3. Stockman Chapter	
	4	
3.	Market Sensitivity and Elasticity	10
	3.1 Importance of Elasticity in Choice-Decisions	
	3.2 Method of Calculation – Arc Elasticity. Point Elasticity – definition.	
	3.3 Demand and Supply Elasticities – types of elasticity and factors effecting	
	elasticity.	
	3.4 Demand Elasticity and Revenue	

	3.5 Income and Cross Price elasticity	
	3.6 Long run and Short Run elasticities of Demand and Supply	
	3.7 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.	4
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.	
6	Lipsey and Chrystal, Chapter 5 (87-90) Markets and Welfare	10
0	6.1 Willingness to Pay and Consumer Surplus	10
	6.2 Willingness to Fay and Consumer Surplus	
	6.3 Market Efficiency and Deadweight Loss	
	6.4 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.	12
	Lipsey and Chrystal Chapter 13 (277-278).	
	7.1 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, Pigovion tax and subsidies, tradable permits.	
	Mankiw Chapter 10, Stockman Chapter 21.	
	7.2 Public Goods and Common Resources: Pubic 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	1
	(Summary)	
m ·	Readings	
Texts		
	G. Lipsey. An Introduction to Positive Economics. English Language Book	
	ociety. (sixth edition or later edition)	
_	sey and Chrystal. 2007. Economics: Oxford University Press.	
	Mankiw. 2007. Economics: Principles and Applications. South Western of	
4 4 (Cengage Learing. Stockman. 1999. Introduction to Economics. Dryden Press. (2 nd or later	
+. A, k		
	dition).	
Refer		

6. J E Stiglitz and C E Walsh. Principles of Economics, W.W. Norton & Company,	
New York (3 rd or later Edition)	
7. P Samuelson and W Nordhaus. Economics, Mc GrawHill International Editions.	
(14 th edition or latest one)	
8. R. L. Heilbroner. The Worldly Philosophers: The Lives, Times and Ideas of the	
Great Economic Thinkers. Touchstone: New York. 6 th or latest edition. (for	
students interested in knowing the historical evolution of economy, the lives	
and contributions of great economists).	
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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
	1.1 Distinction between Macro economics and Microeconomics -	I
	Aggregation and Macroeconomics	
	1.2 Goals and Instruments of Macroeconomics	
	1.3 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.	
	1.4 Brief history and Schools of Macroeconomics – Keynesian, Classical,	
	New Keynesian and New Classical.	
	Samuelson and Nordhaus, Chapter 23. S, Sikdar Introduction (page 6-8).	
2	Accounting Output and Income	20
	2.1 The Circular Flow Explication - Measuring Output – Gross National	
	Product - Nominal GNP, Real GNP and GNP Deflator.	
	2.2 The Two Approaches to measure GNP - The Final Goods Approach and	
	Income Approach.	
	2.3 Intermediate goods and value added approach	
	2.4 Flow Statistics and Stock Statistics –Investment –Consumption –Capital stock	
	2.4 GNP, Gross Domestic product, Net National product, National Income	
	and Disposable Income.	
	2.5 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
	4.1 History of Economic Growth and Why Growth Matters.	
	4.2 Importance of productivity in growth. Determinants of productivity –	

	physical capital, human capital, natural resources and technological	
	knowledge.	
	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)	
	Mankiw, Chapter 25.	
5	Unemployment	12
	5.1 Defining and Measuring the Unemployment Rate – Counting of	
	Unemployed – Employed, Unemployed, Labour Force, Discouraged	
	Workers. Okun's Law. Economic Costs of High Unemployment.	
	5.2 Types of Unemployment – Frictional Unemployment and Job Search,	
	Structural Unemployment and Cyclical Unemployment, Voluntary	
	versus Involuntary Unemployment.	
	5.3 Sources of Inflexibility in wages – minimum wages, unions and	
	collective bargaining and efficiency wages.	
	Samuelson and Nordhaus, Chapter 31 (572-81), Mankiw, Chapter 28	
6	Money and Monetary Institutions	12
	6.1 The Classical and Modern View	
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	6.2 Definition and functions of Money.	
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7	 6.2 Definition and functions of Money. 6.3 Origins of Money including Gresham's Law. 6.4. Money Creation, Models of Banking – ratios approach and competitive banking system, money supply and competitive banking. 6.5 Money and Relative Values – money as a veil, neutrality of money, money illusion, real and monetary effects and price level changes. Lipsey and Chrystal, Chapters 20 and 21 (462-464). 6.6 Reserve Bank of India, Targets and instruments of monetary policy. Sikdar. Chapter 6 (79, 82-84), Samuelson and Nordhaus Chapter 29 (529-532). Inflation 7.1. Definition and measurement of Inflation rate – CPI and GNP Deflator. 7.2 Index-number problems in measuring the cost of living. 7.3. Types of Inflation – Moderate inflation, Galloping Inflation and hyperinflation. 7.4 Impact of Inflation – redistribution of Income and Wealth and distortions on output and prices. 	10

Texts

- 1. P Samuelson and W Nordhaus. Economics, Mc GrawHill International Editions . (14^{th} edition or latest one)
- 2. G, Mankiw. 2007. Economics: Principles and Applications. South Western of Cengage Learing.
- 3. Lipsey and Chrystal. Economics. Oxford University Press. (eleventh edition or latest one).

References

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	
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	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
	 2.1 Arithmetic Mean, Median and Mode (for both grouped and ungrouped data), Comparison of Mean, Median and Mode, Geometric and Harmonic Mean, Composite Mean. 2.2 Application: Index Numbers: their concept as weighted averages, Problems in the Construction of Index Numbers, Chain Index, Cost of Living Index Number (different formulae) 2.3 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
	 3.1 Range, Mean Deviation Quartile Deviation and Standard Deviation, Measures of Relative Dispersion, Curve of Concentration. 3.2 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
	 5.1 Elements of Probability Theory - Sample Space, Events Meaning of Probability, Classical Definition of Probability 5.2 The Addition Rule, The Multiplication Rule, Theorems of Total Probability, Conditional Probability and Statistical Independence 5.3 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	
	6.1 Definition of random variable – discrete and continuous random variable, probability mass function and probability density functions, Expectation and Variance of random variables	6
	6.2 Univariate Probability Distributions: Binomial, Poisson, Hypergeometric, Normal and Standard Normal Distribution -Mean Variance, Skewness and Kurtosis.	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	10
	Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I	
7	Bivariate Analysis	10
	 7.1 Definition of bivariate data, scatter diagram, covariance - measure of association - Coefficient of Simple Correlation - Properties and the method of calculation. 7.2 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
	 8.1 Measurements of mortality: Crude Death Rate, Specific death Rate, Standardised death rate, Mortality index, Infant mortality rate. 8.2 Measurements of fertility: Crude birth rate, general fertility rate, agespecific fertility rate, total fertility rate, Gross Reproduction Rate, Net Reproduction Rate. 8.3 Life Table: its uses. Goon,Gupta,Dasgupta – Basic Statistics. 	
	Readings	
	Texts	
	1. Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I, World Press Pr 2. Mathai & Rathie – Probability and Statistics, The Macmillan company of In	
	References	
	3. Earl.K. Bowen and Martin K. Starr. Basic Statistics for Business and Econo Hill International Student Edition	omics. McGraw

- 4. Kenney and Keeping. Mathematics of Statistics, Vol.1 (Chapters, 1, 2 and 5). Affiliated East West Press.
- Mest Tess.
 Allen Webster. Applied Statistics for Business and Economics, 3rd Edition. McGraw Hill International Edition.
- 6. P H Karnel and M Polasek. Applied Statistics for Economists, 4th 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
	2.1 Use of first derivatives for graphing, second derivatives and curvature	
	2.2 Maxima and minima (local and global)	
	2.3 Concepts of average and marginal change, and elasticity	
	Ref: Archibald & Lipsey, Chapter 4&6	
3	Functions of several variables:	15
	3.1 Level curves	
	3.2 Partial derivatives, second order derivatives and use of chain rule, convexity of	
	level curves	
	3.3 Monotonic transformation, homogeneous function, Euler's theorem	
	Ref: Archibald & Lipsey, Chapter 8	
4	Linear Algebra, Fundamentals of Matrix Algebra and Linear Programming:	18
	4.1 System of linear equations and its solutions, Cramer's rule	
	4.2 Comparative Static exercise, matrix operations of linear equation systems,	
	system with multiple or no solutions	
	4.3 Input-Output Matrices	
	4.4 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
	5.1 Constrained and unconstrained optimization with first-order and second-order	
	conditions	
	5.2 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	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
	7.1 Linear first-order differential equation	
	7.2 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
	8.1 Concepts of Game, representation, pure strategy and mixed strategy solutions	
	8.2 Two person Zero sum game as a linear programming problem, Constant & Non-	
	constant sum game	
	8.3 Prisonner's Dilemma, Dominance, Pure Stregy, 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.	
	Sydstaeter, 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
	 1.1 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. 1.2 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. 1.3 Inter-temporal choice (saving and borrowing). Maddala and Miller, Chapter 5 (page 142-145) 	

and expected utility, risk aversion 15 uants, short run and long run, ts, total average and marginal nal rate of technical substitution, le. las, fixed-coefficient and CES recounting cost, sunk cost, tal, average and marginal cost. es, cost minimization and
uants, short run and long run, ts, total average and marginal nal rate of technical substitution, le. las, fixed-coefficient and CES counting cost, sunk cost, tal, average and marginal cost.
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counting cost, sunk cost, tal, average and marginal cost.
counting cost, sunk cost, tal, average and marginal cost.
tal, average and marginal cost.
tal, average and marginal cost.
cost curves, economies of scope.
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30
n.
t Maximization.
equilibrium of the firm, short run
choice and competitive
l profit, long-run industry supply
indyck and Rubinfeld, Chapter 8
ernment intervention and dead
s and price supports.
, 288-290, 292-294).
ermination and price rule,
social costs of monopoly power –
4).
nd third degree price
5
5)
ong run equilibrium, excess
0)
9)
equilibrium, Cournot and
llusion – the Prisoners'
7)
10
y of an input, marginal product
y of an input, marginar product
abor markets, monopsony,
acor markets, monopoorty,
and Chrystal, Chapter 10

5	Other issues related to Market	10
	5.1 General Equilibrium and Economic Efficiency - Exchange, production and	
	welfare.	
	5.2 Reasons for Market Failure	
	Pindyck and Rubinfeld, Chapter 16	
	5.3 Markets with asymmetric information- adverse selection, moral hazards,	
	agency problems (concepts only).	
	Lipsey and Chrystal, Chapter 11 (241-243).	
	Readings	
	Texts	
	1. R S. Pindyck and D.L. Rubinfeld, (2000), Microeconomics, 3rd edition, Prentice	
	2. G.S. Maddala and E. Miller. 1989. Microeconomics. McGraw-Hill International later edition)	l Editions. (or
	References	
	3. Lipsey and Chrystal. 2007. Economics. Oxford University Press.	
	4. R S. Pindyck, D.L. Rubinfeld and Mehta (2007). Microeconomics, 7 Th edition, I India.	Prentice Hall,
	5. H R. Varian. Intermediate Microeconomics, a Modern Approach. Affiliated Eas	st-West Press.
	6. Satya Chakrabarty. Microeconomics. Allied Publishers.	
	7. B.D. Bernheim and M.D. Whinston, Microeconomics, McGraw-Hill Internation	nal 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. edition).	(sixth

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

	2.2.10 I.M 1 A	
	2.3 IS-LM and Aggregate Demand	
	Mankiw Chapter 11 (291-294); Hall and Papell Chapter 8 (209-215)	
	2.4 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)	
	2.5 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).	
3		10
3	Foreign Trade and Exchange Rate	10
	3.1 Economic Openness with an emphasis on Indian economy, balance of	
	payments, BOP and the Central Bank, Financing Current Account Deficit.	
	3.2 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	
1	External Balance under Fixed Rate, Advantages of Flexible exchange and	
	Fixed Rates.	
	3.3 Foreign exchange market reform in India, relation of Devaluation with	
	purchasing power parity and inflation, purchasing power parity principle.	
	3.4 IS-LM model without capital flows, Open economy with capital flows – the	
	Mundell-Fleming Model.	
	S, Sikdar Chapter 7.	
	2, 2	
4	Theories of Consumption and Investment	15
	4.1 Consumption - Keynes and consumption function, inter-temporal choice, life	
	cycle and permanent income hypothesis.	
	4.2 Investment—business fixed investment, neo-classical approach, Tobin's q,	
	Residential investment and accelerator model of inventories.	
	G, Mankiw Chapters 16 and 17.	
	-,	
5	Demand for Money	5
1	5.1 Demand for money: Portfolio theory of money demand, Baumol-Tobin	
1	analysis of cash management.	
	G, Mankiw Chapter 18.	
6	Economic Growth	10
	6.1 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)	
	6.2 Endogenous Growth Theory (introduction).	
1	G, Mankiw Chapter 5 (118-119)	
	9, Wanki w Chapter 5 (110 117)	

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
	-	Lectur
		es
1	Concepts and measures of development	8
	 1.1 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. 1.2 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) 1.3 Definition of developing economy. Todaro and Smith Chapter 2 (68-71). 1.4 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

	 3.1 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) 3.2 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). 3.3 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) 	
4	Population and Development	4
	 4.1 Concepts of Population: definitions of fertility, mortality, birthrates, death rates, fertility rate, life expectancy, infant mortality rate, youth dependency ratio. 4.2 Theory of demographic transition Todaro and Smith Chapter 7 (293-308). 	
4	Development strategies	14
	 4.1 Complementarity and Coordination Todaro and Smith Chapter 5 (184-187). Debraj Ray Chapter 5 (131-136). 4.2 Poverty Trap of Nurkse and Big Push theory of Rosenstein-Rodan 4.3 Linkages – backward and forward; linkages, policy and big push. Debraj Ray, Chapter 5 (136-143). Todaro and Smith Chapter 5 (184-193) 4.4 Choice of technology and choice of scale (large vs small) and criteria for investment. Thirlwall Chapter 12 4.5 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. 	
5	Development in a Labour surplus economy	14
	 5.1 The concept of economic dualism. Kausik Basu Chapter 7 (151-153). Thirlwall Chapter 7 (234-236) 5.2 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). 	
6	Development, Inequality and poverty	14

	 6.1 Meaning of inequality, inequality measures, Lorenz Curve, Range, Coefficient of variation, Gini-coefficient, Kuznet's Inverted U hypothesis. 6.2 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. 6.4 Social dimensions of poverty – rural poverty, women and ethnic minorities and indigenous populations. Todaro and Smith Chapter 6. Debraj Ray Chapters 6, 7 (199-200), 8 (249-256). Thirlwall Chapter 2 (47-54). 6.5 Tackling Poverty – The World Bank Approach Thirlwall Chapter 2 (41-44). 	
7	Environment and development	6
	 7.1 Development and Environmental – an overview. Meier and Rauch Chapter 10 (588-89) 7.2 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. Todaro and Smith Chapter 11 (497-507) 7.3 Policies for Environmental Regulation. Lipsey and Chrystal, Chapter 13 (286-89). 	
	Readings	
	 Texts A.P. Thirlwall. Growth and Development. Palgrave McMillan. (8th edition or latest) M.P. Todaro and S.C. Smith, "Economic Development". Pearson Education. Debraj Ray. Development Economics. Oxford University Press. References Lipsey and Chrystal. 2007. Economics. Oxford University Press. K. Basu. Analytical Development Economics: The Less Developed Economy Revisited. Oxford University Press. G.M. Meier and J.E. Rauch. Leading Issues in Economic Development. Oxford University Press. (8th edition or latest) Y. Hayami, "Development Economics", (Oxford University Press) 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.).	

Texts

- 1. Uma Kapila (ed). India's Economic Development Since 1947 (3rd Ed. or latest version). Academic.
- 2. S Chakraborty. 1987. Development Planning: The Indian Experience. Clarendon Press.
- 3. Vaidyanathan A.1994. Performance of Indian Agriculture since Independence in Kaushik Basu (ed.) Agrarian Question, Oxford University Press.
- 4. Bimal Jalan (ed.) The Indian Economy: Problems and Prospects Penguin.

References

- 5. C D. Wadhwa. Some problems of India's Economic Policy, Tata McGraw Hill.
- 6. J. Sachs, A Varshney and N Bajpai (ed). India in the Era of Economic Reforms. Oxford University Press.
- 7. I, Judge Ahluwalia. 1985. Industrial Growth in India since the Mid-sixties. Oxford University Press.
- 8. PC Joshi. 1975. Land Reforms in India: Trends and Perspectives. Allied Publishers: New Delhi.
- 9. 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
	1.1 Ricardian Model: Comparative advantage.	
	1.2 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 specialiszation, gains from trade.	
	Readings	

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

	144 D	
	4.1 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.	
	4.2 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.	
	4.3 Tariff & Import Quotas in presence of monopoly.	
	Readings	
	Texts	
	International Economics: Paul R. Krugman, Maurice Obstfeld, Chapter 8	
	(8 th Ed.), Pearson Education	
	References	
	International Economics: Dominick Salvatore (8 th Ed.) Chapter 8, Wiley	
	India	
	World Trades and Payments: Caves, Frankel, Jones (9 th Ed.)Chapter 10,	
	Pearson Education.	
5	Accounting, Income Determination and Exchange Rates	18
	5.1 Balance of payment accounts; national income accounting in an open	
	economy; monetary account;	
	5.2 Determination of national Income, multiplier analysis, the transfer problem,	
	introduction of foreign country and repercussion effect.	
	5.3 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.	
	Readings	
	Texts	
	International Economics: Paul R. Krugman, Maurice Obstfeld, Chapter	
	12(8 th Ed.), Pearson Education (for 5.1 & 5.2)	
	International Economics: Dominick Salvatore (8 th Ed.) Chapter 16, 17	
	Wiley India (for 5.3)	
	References	
	References Open Economy Macroeconomics: R Dornbusch, (International Students Edition), Basic Books, New York.	
	References Open Economy Macroeconomics: R Dornbusch, (International Students Edition), Basic Books, New York.	
	References Open Economy Macroeconomics: R Dornbusch, (International Students	

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

	stabilization.	
	2.3 Regulatory functions of the Government and its economic significance	
	Musgrave and Musgrave Chapter 29, Chapter 1 Page 6-14. Stiglitz in Bagchi (ed.) Chapter 9, page 170-171.	
3	Federal Finance	10
	3.1 Federal Finance: Different layers of the government, Inter governmental transfer—horizontal vs. vertical equity.	
	Musgrave and Musgrave Chapter 28, Page 457-461, Misra and Puri Chapter 53, page 694-698, 700-701.	
	3.2 Grants—merits and demerits of various types of grants—unconditional vs. conditional grants, tied grants, matching grants.	
	Musgrave and Musgrave, Chapter 28 Page 461—469, Misra and Puri Chapter 53 page 703-705.	
4	Public Goods and Public Sector	10
	4.1 Concept of public goods—characteristics of public goods, national vs. local public goods, determination of provision of public good	
	4.2 Externality, concept of social versus private costs and benefits, merit goods, club goods.	
	Musgrave and Musgrave, Chapter 4. McGuire in Bagchi (ed.) Chapter 5.	
	4.3 Provision versus production of public goods. Market failure and public provision. Pricing of public goods—vertical summation	
	Musgrave and Musgrave, Chapter 5	
5.	Government Budget and Policy	12
	5.1 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.	
	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.	
	5.2 Budget, government policy and its impact. Budget multipliers.Stiglitz, Blinder and Solow, Fisher and Easterly in Bagchi (ed), Chapters 9, 16, 17.	
6.	Revenue Resources	10
	6.1 Concept of tax, types of tax – direct tax and indirect tax, canons of taxation, subsidy, transfer policy.	
	H.L.Bhatia Chapter 4 page 39-49, Chapter 20 page 467-470.	
	6.2 Principles of taxation -Ability to Pay principle (brief discussion), Benefit Approach (Actual Examples)	
	I and the second	1
	Musgrave and Musgrave, Chapter 13, page 218-231	

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

		,
	2.1 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.	
	2.2 Industrial revolution in Great Britain - Causes – Why Great Britain became the	
	pioneer? – Characteristics - Effects	
	Ref: P Deane, Ch 1.	
3	Industrialization Experiences in Early Part of 20th Century.	12
	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.	
	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.	
	Post Second World War Development Scenario	20
	4.1 Global Change, Welfare state and mixed economy.	
	4.2 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).	
	4.3 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.	
	4.4 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.	
5	Development and underdevelopment as historical processes	5
	5.1 Dependency Approach.	
	5.2 Unequal exchange.	
	Ref: Thirlwall Chapter 7 (252-255). Dos Santos in Goddard, Cronin and Dash	
	(ed.).	
6	Evolution of New international economic order.	24
	6.1 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).	
	6.2 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).	
	6.3 Economic Integration and Regional Trading Blocs.	
	Ref: Todaro and Smith Chapter 13 (613-617). Sikdar 6 (146-148, 151-153).	
	6.4 Global Polarization.	
	Ref: Samir Amin in Goddard, Cronin and Dash (ed.).	
7	Development policies and role of the state	5

		1
	7.1 Nature of Development planning, Rationale for development planning.	
	Ref: Todaro and Smith: Ch 16 pp 714-718.	
	7.2 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.	
	Readings	
	Texts	
	1. A.P. Thirlwall. Growth and Development. Palgrave McMillan. (8 th 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. (8 th 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). (2 nd 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.	
	References	
	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	Contemporary Economic Issues –India.	
A	Marks: 30	
1.	Economic Reform in India Since 1991	20

 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 (21-24). Uma Kapila, Chapter 20. 1.2 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. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI. 	r 2
Market. Rangarajan in Uma Kapila, Chapter 5. Economic Survey 2009-10, Chapter (21-24). Uma Kapila, Chapter 20. 1.2 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. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI.	· 2
 Rangarajan in Uma Kapila, Chapter 5. Economic Survey 2009-10, Chapter (21-24). Uma Kapila, Chapter 20. 1.2 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. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI. 	r 2
 (21-24). Uma Kapila, Chapter 20. 1.2 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. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI. 	12
 1.2 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. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI. 	
Basu and Maertens (page 141-146, 350-354, 366-371). Rangarajan in Uma Kapila, Chapter 21. Ahluwalia in Sachs, Varshney and Bajpai. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI.	
 Basu and Maertens (page 141-146, 350-354, 366-371). Rangarajan in Uma Kapila, Chapter 21. Ahluwalia in Sachs, Varshney and Bajpai. 1.3 Financial sector reforms including banking reform. Monetary Policy of RBI. 	
Kapila, Chapter 21. Ahluwalia in Sachs, Varshney and Bajpai.1.3 Financial sector reforms including banking reform. Monetary Policy of RBI.	
1.3 Financial sector reforms including banking reform. Monetary Policy of RBI.	
RBI.	
Basu and Maertens (246-251, 219-225, 255-261). Joshi and Little,	
Chapter 4. Ahluwalia in Sachs, Varshney and Bajpai.	
1.4 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.	
1.5 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	ı in
Sachs, Varshney and Bajpai.	
A and an Marian December and Control Control Control	12
2 Agriculture, Poverty and Social Security	13
2.1 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.	
2.2 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.	
3 Post-reform performance of Indian Economy	4
3.1 Appraisal of Indian Economic Reform. India's Growth Experience.	
3.1 Appraisal of Indian Economic Reform. India's Growth Experience. Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002.	
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002.	18
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues	18
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development	
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24)	
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector.	
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007.	
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System.).
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 6)).
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 66), Chapter 5. Hanumantha Rao in Uma Kapila, Chapter 15. Economic).
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 66), Chapter 5. Hanumantha Rao in Uma Kapila, Chapter15. Economic Survey 2009-10, Chapter 8 (198-204) (or latest issues).).
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 66), Chapter 5. Hanumantha Rao in Uma Kapila, Chapter15. Economic Survey 2009-10, Chapter 8 (198-204) (or latest issues). 4.4 Migration and Urbanization.).
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 66), Chapter 5. Hanumantha Rao in Uma Kapila, Chapter15. Economic Survey 2009-10, Chapter 8 (198-204) (or latest issues). 4.4 Migration and Urbanization. Basu and Maertens (443-447). Agarwal, Chapter 7 (86-101)).
Uma Kapila Chapter 29. Basu and Maertens (24-32). Ahluwalia 2002. Ahluwalia in Sachs, Varshney and Bajpai. 4. Indian economy: Some Current and Future Issues 4.1 Inclusive development Mahendra Dev, Introduction. Economic Survey 2009-10, Chapter 2 (21-24) 4.2 Growth of the Service Sector. Basu and Maertens (205-215). M Rakshit 2007. 4.3 Food security, Food Procurement and Public Distribution System. Basu and Maertens (484-489, 561-565). Mahendra Dev Chapter 3 (43-46, 66), Chapter 5. Hanumantha Rao in Uma Kapila, Chapter15. Economic Survey 2009-10, Chapter 8 (198-204) (or latest issues). 4.4 Migration and Urbanization.).

Banerjee-Guha 2008.	
4.6 Demographic dividend.	
Basu and Maertens (415-421). Chandrasekhar, Ghosh and Roy Choudhury	
(2006). Uma Kapila, Chapter 9.	

Group	Contemporary Economic Issues -West Bengal	
В	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	

For India:

Texts

- 1. K. Basu and A. Maertens. The Concise Oxford Companion to Economics in India. Oxford University
- 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 (29th 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 Bhatacharyya & 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
	 2.1 Population and Sample, Parameter and Statistic, Random Sampling - Methods of Drawing Random samples –with replacement and without replacement, Random sampling Numbers. 2.2 Sampling Distribution, Standard Error. 	
	Mathai & Rathie – Probability and Statistics	
	Goon, Gupta, Dasgupta – Fundamentals of Statistics, Vol I	
3	Sampling Distribution	15
	 3.1 Sampling Distributions associated with Normal Population, Expectation and Standard Error of Sample Mean for with replacement and without replacement random samples, 3.2 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
<u> </u>	4.1 Estimators-Desirable properties of estimators -Unbiasedness, Minimum Variance, Consistency and Sufficiency 4.2 Point Estimation - Maximum Likelihood Estimators and their properties – 4.3 Maximum Likelihood estimation of the parameters of Binomial, Poisson and Normal Distributions.	
	 4.4 Confidence Intervals -Testing of Hypothesis -p-Values -Type-I and Type -II Errors 4.5 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

	 5.1 Classical Linear Regression Model (CLRM): Specification of the Model-Assumptions- Linearity in variables and parameters, Estimation of the Error Variance 5.2. Gauss Markov Theorem, Goodness of fit: R square –Coefficient of Determination 	
	5.3 Inference in the Linear Regression Model- Confidence interval for the parameters and the Testing of Hypotheses -Prediction with the Simple Regression model.	
	5.4 Concepts of Heteroscadasticity and Autocorrelation problems.	
	G.S. Maddala – Introduction to Econometrics D. Gujarati – Basic Econometrics.	
6	Time Series Data	10
	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)	10
	Goon,Gupta,Dasgupta – Fundamentals of Statistics, Vol II	
	Readings	
	Text 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
	1.1 Nature and Scope of Managerial Economics;	
	1.2 Basic Economic Tools in Managerial Economics: Opportunity Cost Principle,	

		T
	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).	
2	Demand, Cost and Profit Analysis	15
	2.1 Demand Analysis: Demand Estimation for major consumer durables, non-	
	durable products; Demand forecasting techniques.	
	Ref: Keat and Young Ch-5,6 (188-288)	
	2.2 Cost Estimation	
	Ref: Keat and Young Ch-8 (355-417)	
	Rot. Real and Today Ch o (355 117)	
	2.3 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.	
2	Overeign tional Design Duinging LA cout Analysis 9 Januaris Design	10
3	Organizational Design, Principal-Agent Analysis & Incentive Design	10
	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)	
4	Pricing Policies and Practices:	10
	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).	
5	Capital Budgeting	10
	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).	
	101. 1 .D. Monta On 21 (101 101).	
6	Cost of Capital	7
	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).	
		i

story; Various Inventory Models: (a) Optimum number of Orders per year (c) Optimum number of Orders per year	
er; Quantity Discounts – Cost and Production Processes. 481)or P.L. Mehta Ch-12 (254-269). 8 and Controls – Internal and External Governance, Role of Accountant, rement, Action beyond obligation, aphasis on Anglo American Model, rm Performance. Clarke- International Corporate	
and Production Processes. 481)or P.L. Mehta Ch-12 (254-269). 8 and Controls – Internal and External Governance, Role of Accountant, rement, Action beyond obligation, aphasis on Anglo American Model, rm Performance. Clarke- International Corporate	
8 and Controls – Internal and External Governance, Role of Accountant, cement, Action beyond obligation, aphasis on Anglo American Model, rm Performance. Clarke- International Corporate	
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and Controls – Internal and External Governance, Role of Accountant, rement, Action beyond obligation, aphasis on Anglo American Model, rm Performance. Clarke- International Corporate	
Governance, Role of Accountant, rement, Action beyond obligation, aphasis on Anglo American Model, rm Performance. Clarke- International Corporate anagerial Economics , Sultan Chand,	
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Clarke- International Corporate anagerial Economics , Sultan Chand,	
unagerial Economics , Sultan Chand,	
nnagerial Economics, Pearson	
an Chand, New Delhi arks – Managerial Economics. Wiley	
Governance Routledge, 2007. University Press.	
All India Management Association &	
s, w – what is Corporate Governance,	
l l	
orporate Governance, Blackwell. Saydeb – Managerial Economics, Book	
n	nal Architecture, Tata McGraw Hill. s, W – What Is Corporate Governance,

	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
	2.1 Output maximization, Cost minimization, Homogeneous and homothetic	
	production functions, Elasticity of substitution, CES production function,	
	Relationship between average cost and marginal cost	
	2.2 Factor demand curves, output elasticity, Analysis of firms in competitive	
	equilibrium and monopoly, imposition of taxes	
	2.3 Analysis of factor demands in the long run	
	2.4 Fixed coefficient production functions, Leontief Input-Output system.	
	Ref: Simon & Blum, Chapter 22 Section 22.2, Chiang . & Wainwright, Chapter 12,	
	Silberberg & Suen, Chapter 4	10
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	
	T. A.	_
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
	5.1 Uncertainty and Probability, State preference approach for preferences	
	5.2 Expected Utility Hypothesis, Risk aversion and its measures.	
	Ref: Silberberg & Suen, Chapter 13	10
6	Comparative Statics	10
	C.1. Comparison to a social to a First and Comparison and Comparison	
	6.1 Generalisation to n variables: First and Second order conditions	
	6.2 Profit maximisation: n factors and Utility Maximisation	
	6.3 National Income Model, IS-LM Model6.2 Simple Trade Models	
	Ref: Silberberg & Suen, Chapter 6, Chiang & Wainwright, Chapter 8.	
	Ref. Shoerberg & Suen, Chapter 6, Chiang & Wantwright, Chapter 6.	
7	Application of Difference and Differential Equations	20
'	7.1 Cobweb Model	20
	7.1 Cobweb Model 7.2 Multiplier-Accelerator Interaction Model	
	7.3 Linear Systems via Eigen values	
	7.4 Solution of linear systems by substitution	
	7.5 Phase diagrams of linear systems	
	7.6 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.	
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Simon, C.P and L. Blume (1994): Mathematics for Economists, Norton &	
Company	
Schaum's Easy Outline of Introduction to Mathematical Economics (2005)	

Paper VIIIA: Indian Economic History	
Full Marks 50 : Total Lectures 55	
Торіс	Lectures (No)
Economic condition in India on the eve of British rule	3
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	
Impact of British rule on India	25
3.1 Deindustrialisation	
3.2 Commercialisation of agriculture	
3.4 Economic Drain	
Early Economic planning initiatives during British rule	2
 Readings Dharma Kumar (ed). Cambridge Economic History, Vol II. V B Singh (ed.). Economic History of India (1857-1956). Dhires Bhattacharyya. Concise Economic History of India. D R Gadgil. Industrial Evolution of India in Recent Times. A K Bagchi. Private Investment in India (1900-1939). Bipan Chandra. Rise of Economic Nationalism. Rothermund, Dietmar. 1988. An Economic History of India, From Pre-colonial times to 1986, Croom Helm, London. Tirthankar Roy. The Economic History of India 1857-1947. Oxford University Press. (2nd edition). 	
	Full Marks 50: Total Lectures 55 Topic Economic condition in India on the eve of British rule Aspects of Economic Policies under in British India 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 Impact of British rule on India 3.1 Deindustrialisation 3.2 Commercialisation of agriculture 3.4 Economic Drain Early Economic planning initiatives during British rule 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

	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.	