PRESIDENCY UNIVERSITY

Department of Economics

SYLLABUS

B.Sc. Major in Economics

&

B.A./B.Sc. Elective Extra Departmental Courses in Economics

PRESIDENCY UNIVERSITY Course Structure B.Sc. Economics Major/Honours Total Marks 1000

The objective of B.Sc. Economics Major/Honours Programme at Presidency University is to provide students with a thorough grounding in the analytical methods of economics and to develop their skills in applying these methods to a diverse range of problems, both microeconomic and macroeconomic, in analysing and constructing complex arguments and in communicating these effectively. The courses in Statistics, Econometrics and Mathematical Economics will enable students build a particularly strong quantitative background, which is becoming more and more important for a successful career in economics.

Semester I

Paper I: Microeconomics I Paper II: Mathematical Economics I

Semester II Paper III: Macroeconomics I Paper IV: Statistics I

Semester III

Paper V: Microeconomics II Paper VI: Macroeconomics II Paper VII: Mathematical Economics II

Semester IV

Paper VIII: Microeconomics III Paper IX: Macroeconomics III Paper X: Statistics II

Semester V

Paper XI: International Economics Paper XII: Development Economics I Paper XIII: Indian Economy in Pre-independence Period Paper XIV: Introduction to Econometrics Paper XV: Computer Applications

Semester VI

Paper XVI: Public Economics Paper XVII: Development Economics II Paper XVIII: Indian Economy in Post Independence Period Paper XIX: International Economic Order Paper XX: Project \ Term Paper

PRESIDENCY UNIVERSITY B.A./B.Sc. Elective Economics Extra Departmental Courses

Two Elective Extra Departmental Courses in Economics will be offered:

Course A: Total Marks 300

Paper I: Microeconomics I Paper II: Macroeconomics I Paper III: Microeconomics II Paper IV: Macroeconomics II Paper V: Indian Economic Problems Paper VI: Development Economics

Course B: Total Marks 100

Paper I: Principles of Economics Paper II: Indian Economic Problems

Students will be allowed to opt for any one of these courses.

PRESIDENCY UNIVERSITY DETAILED SYLLABUS B.Sc. Economics Major/Honours

[Figures in extreme right indicate the number of contact hours]

FIRST SEMESTER

PAPER I	MICROECONOMICS I Full Marks:	50
Module 1 Unit 1	Introduction to Price Theory The scope of microeconomics. Scarcity and choice - production possibility curve – trade off , opportunity cost and decision making; incentives and information – prices (absolute and relative prices) property rights and profits. Decision takers- households, firms and central authorities; choice by command and choice by market.	18 07
Unit 2	Alternatives to the price system – Rationing by Queues, Rationing by Lotteries, Rationing by Coupons. Elementary concepts of market demand and market supply curves. Market equilibrium - Existence, Uniqueness and Stability of equilibrium (the Walrasian approach and Marshallian approach). Government Interventions and their Effects on market equilibrium – price ceiling, price floor and commodity taxation. Black market	08
Unit 3	<u>Applications</u> : Rent Control Laws, Minimum Wage Legislation. Determinants of market demand and market supply – comparative statics.	03
	Suggested readings: Lipsey and Chrystal: An Introduction to Positive Economics, OUP Stiglitz and Walsh: Economics, W.W. Norton & Company Mankiw: Principles of Economics, Thomson Stockman: Introduction to Economics, The Dryden Press	
Module 2	Theory of Consumer Behaviour – Alternative Approaches	26
Unit 1	Cardinal utility; law of diminishing marginal utility; derivation of the Marshallian demand curve and its elasticity implications.	03
Unit 2	Ordinal utility – axioms; indifference curves, budget constraint and consumer's equilibrium; comparative static: price – consumption curve, income-consumption curve and Engel's curve; demand elasticities and classification of commodities: normal, inferior and Giffen goods; substitution and income-effects and law of demand; compensating and equivalent variation, and consumer surplus. Applications: Labour Supply, Intertemporal Choice.	18
Unit 3	Applications: Labour Supply, intertemporal Choice. Revealed Preference approach: Strong and weak axioms of revealed preference – properties of demand function. <u>Application</u> : Indexing Social Security Payments	05

Suggested readings: Varian H.R: Intermediate Microeconomics: A Modern Approach, East–West Press Green: Consumer Theory, The Macmillan Press Ltd. Friedman: Price Theory, Aldine Transaction Gravelle and Rees: Microeconomics, Pearson Breit and Hochman (ed.): Readings in Microeconomics, Holt, Reinehart & Winston, Inc.

Module 3 **Theory of Production and Costs**

- Unit 1 Technology and technological efficiency – general concept of production function – concepts of total product, average product and marginal product -return to factor and returns to scale - isoquants and diminishing rate of factor substitution - elasticity of substitution -some examples of technology (fixed proportion, perfect substitute, Cobb - Douglas Production Function, CES Production Function), General concept of homogenous and homothetic production function and their properties.
- Economic / Opportunity cost and accounting cost, concept of sunk cost; time Unit 2 10 dimension of cost – cost in the short run – total cost – fixed and variable cost – marginal cost – average cost – derivation of short run cost - long run cost function functional coefficient and shape of long run average cost.- relation between short run and long run cost; expansion path; relation between expansion path and long run total cost curve.
- Unit 3 Producer's equilibrium Application: Multi-product firm and economies of scope

Suggested readings: Varian H.R: Intermediate Microeconomics: A Modern Approach, East-West Press Varian H.R: Microeconomic Analysis, W.W. Norton Gould and Ferguson: Microeconomic Theory, Richard D. Irwin, Inc. Pindyck, Rubinfeld and Mehta: Microeconomics, Pearson **Education Asia** Maddala and Miller: Microeconomics- Theory and Applications, McGraw Hill.

PAPER II

MATHEMATICAL ECONOMICS I

Module 1 Sets, Functions, and Linear Algebra Unit 1 Sets of n-tuples, Cartesian product, convex combination, sequences, Mapping, Realvalued-functions-continuity, differentiability, convexity, concavity, quasi-convexity, 22 quasi-concavity of functions, homogeneous & Homothetic functions, Metric Space, Open & Closed, Compact, Convex sets, Level curves, Theorems on image and inverse image under continuous function, infimum, supremum, Weiestrass Theorem, uniqueness of maximum and minimum. Differentiation and Integration, Polynomials, powers and exponential, logarithmic functions, Mean-value-theorem, Taylor's series, L' Hôpital's rule. Vector and matrices, determinants and matrix inversion, linear independence, the 07 Unit 2 rank of a matrix, System of linear equations in matrix form, Cramer's rule, Implicit function Theorem and Comparative Static exercises.

Suggested readings: Chiang & Wainwright, Fundamental Methods of

4

20 10

Full Marks: 50

- 29

		Mathematical economics, McGraw Hill.	
		Sydsaeter & Hammond, Mathematics for Economic	
		Analysis, Pearson Education.	
		Simon & Blume, Mathematics for Economists, Viva	
		Books.	
		Silberberg & Suen, The Structure of Economics,	
		McGraw Hill.	
Module 2 Unit 1	Optimization & Con Classical Optimizatio	-	35 20
Unit 2	Non-linear Programm	ing	07
Unit 3	Linear Programming		08
	Suggested readings:	Chiang & Wainwright, Fundamental Methods of	
		Mathematical economics, McGraw Hill.	
		Sydsaeter & Hammond, Mathematics for Economic	
		Analysis, Pearson Education.	
		Simon & Blume, Mathematics for Economists, Viva	
		Books.	
		Silberberg & Suen, The Structure of Economics,	
		McGraw Hill.	

SECOND SEMESTER

PAPER III MACROECONOMICS I		Full Marks: 50	
Module 1	Introduction to Macroeconomics	04	
Unit 1	Introduction to macroeconomic variables	02	
Unit 2	Microeconomic and macroeconomic approaches	02	
	Suggested readings: Samuelson and Nordhaus, Economics, McGraw Hill Mankiw, Economics : Principles and Applications, C Learning	Cengage	
Module 2	National Income Accounting	15	
Unit 1	GDP, GNP, NDP, NNP and NI	04	
Unit 2	Circular flow of income	01	
Unit 3	Measurement of National Income – problems encountered	06	
Unit 4	CPI, WPI and GDP deflator	02	
Unit 5	National income as a measure of welfare	02	
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers		
	Dornbusch and Fischer, Macroeconomics, McGraw-I	Hill	

Module 3	Determination of Income – Simple Keynesian Model	15
Unit 1	Keynesian consumption function	03
Unit 2	Equilibrium in the commodity market	02
Unit 3	Stability of equilibrium	02
Unit 4	Multiplier	06
Unit 5	Paradox of thrift	02
	Suggested readings:Dornbusch and Fischer, Macroeconomics, McGraw-Hill Froyen, Macroeconomics : Theory and Policy, Pearson Education Mankiw, Macroeconomics, Worth Publishers	
Module 4	Determination of Income and Interest Rate – IS-LM Model	18
Unit 1	Commodity market equilibrium and IS curve	02
Unit 2	Money market equilibrium and LM curve	04
Unit 3	Simultaneous equilibrium in commodity and money markets – determination of income and interest rate	01
Unit 4	Stability of equilibrium – phase diagram	01
Unit 5	Comparative Statics - Monetary policies and fiscal policies	08
Unit 6	Model with real balance effect	02
	Suggested readings: Dornbusch and Fischer, Macroeconomics, McGraw-Hill Froyen, Macroeconomics : Theory and Policy, Pearson Education	
Module 5	Consumption Function	12
Unit 1	Keynesian consumption function	01
Unit 2	Empirical findings on consumption-income relationship	01
Unit 3	Theory of inter temporal choice	04
Unit 4	Permanent income hypothesis	03
Unit 5	Life cycle hypothesis	03
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers Froyen, Macroeconomics : Theory and Policy, Pearson Education	

PAPER IV	7 STATISTICS I	Full Marks: 50
Module 1	Data Presentation	04
Unit 1	Collection of Data- Variable and Attribute - Population and Sample. Classification and presentation of data.	02
Unit 2	Frequency distribution and its diagrammatic representation.	02

Suggested readings: Goon, Gupta, Dasgupta: Fundamentals of Statistics,

Vol I, World Press Private Limited Nagar and Das: Basic Statistics, OUP Bowen & Starr, Basic Statistics for Business and Economics, McGraw Hill.

Module 2 Measures of Central Tendency

Arithmetic Mean, Median and Mode for grouped and ungrouped data, Comparison of Mean, Median and Mode, Geometric and Harmonic Mean, Composite Mean. <u>Application</u>: Index Numbers: Index number as weighted averages, Price and quantity index numbers, Problems in the Construction of Index Numbers, Tests for index Numbers, Chain based Index, Cost of Living Index Number, Wholesale Price Index and Cost of Living Index in India, Uses of Index Numbers, Index numbers as indices of well-being, Stock market indices.

Suggested readings: Goon, Gupta, Dasgupta: Fundamentals of Statistics, Vol I, World Press Private Limited Nagar and Das: Basic Statistics, OUP Bowen & Starr, Basic Statistics for Business and Economics, McGraw Hill.

Module 3	Measures of Dispersion Range, Mean Deviation, Quartile Deviation and Standard Deviation, Measures of Relative Dispersion, Curve of Concentration <u>Application</u> : Measurement of Economic Inequality: Gini Coefficient and Lorenz Curve.	12
	Suggested readings: Goon, Gupta, Dasgupta: Fundamentals of Statistics, Vol I, World Press Private Limited Nagar and Das: Basic Statistics, OUP Debraj Ray: Development Economics, OUP Bowen & Starr, Basic Statistics for Business and Economics, McGraw Hill.	
Module 4	Moments, Skewness, Kurtosis Central and non central moments, different measures of skewness and kurtosis	08
	Suggested readings: Goon, Gupta, Dasgupta: Fundamentals of Statistics, Vol I, World Press Private Limited Nagar and Das: Basic Statistics, OUP Bowen & Starr, Basic Statistics for Business and Economics, McGraw Hill.	
Module 5 Unit 1 Unit 2 Unit 3	Population Statistics 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.	05 02 02

Suggested readings: Goon, Gupta, Dasgupta: Basic Statistics, World Press Private Limited 15

Nagar and Das: Basic Statistics, OUP

Module 6	Probability Theory	20
Unit 1	Elements of Probability Theory: Sample Space, Probability Space, Events, Classical Definition of Probability	07
Unit 2	The Addition Rule, The Multiplication Rule, Theorems of Total Probability, Conditional Probability and Statistical Independence	07
Unit 3	Limitations of the Classical definition, Frequency definition, Axiomatic Approach, Bayes' Rule	06
	Suggested readings: Hoel, Paul, G.: Introduction to Mathematical Statistics, Wiley Series in probability and statistics Paul G. Hoel, Sidney C. Port, Charles J. Stone: Introduction	

to Probability Theory, Universal Book Store, Delhi Goon, Gupta, Dasgupta: Fundamentals of Statistics, Vol I, World Press Private Limited

THIRD SEMESTER

PAPER V MICROECONOMICS II Full Marks: 50

Module 1 Organization and Management of the Firm

Defining a firm – firm's legal form.

Profit maximization hypothesis – shareholder goals, managerial goals, capital market control and notion of takeover (with selected examples of takeovers in India). Contractual theories and organizational theories of firm (concepts only).

Suggested readings: Baumol, W. J.: Economic Theory and Operation Analysis, Prentice Hall, India Sen, A.: Microeconomics – Theory and Applications, OUP

Module 2 Perfect Competition

Assumptions - economic vs. accounting profit; short-run profit maximization – shortrun supply curve of the firm and the industry. Output choice and competitive equilibrium in the long run – economic rent and profit; long-run industry supply curve under constant, increasing and decreasing costs. Consumer's and producer's surplus – effects of tax and subsidy – deadweight losses. <u>Application</u>: Free trade vs. protection.

Suggested readings: Varian H.R: Intermediate Microeconomics: A Modern Approach, East West Press Pindyck, Rubinfeld and Mehta: Microeconomics, Pearson Education Asia Maddala and Miller: Microeconomics- Theory and Applications, McGraw Hill Perloff, Jeffrey M. (2007): Microeconomics - Theory and Application with Calculus, Addison Wesley

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Module 3 Unit 1	 Imperfect Competition Monopoly: Profit maximization of a single plant monopolist – effects of tax – the multiplant monopoly. Measuring monopoly power - sources of monopoly power – social costs of monopoly power – rent seeking, price regulation and natural monopoly; limiting market power – antitrust laws. Monopoly equilibrium under sales maximization - comparison between profit maximization and action action. 	30 12
Unit 2	maximization and sales maximization. Different Pricing Strategies: Capturing consumer surplus; price discrimination – first, second and third degree price discrimination.	08
Unit 3	<u>Applications</u> : Intertemporal price discrimination and peak-load pricing, two-part tariff (concept with examples), bundling (concept with examples), quality discrimination, dumping in international market. Monopolistic Competition: Assumptions – product differentiation and demand curve – concept of product group –	10
	equilibrium of the firm – excess capacity and its interpretation Advertising and informational product differentiation	
	Suggested readings:Varian H.R: Intermediate Microeconomics: A Modern Approach, East– West Press Pindyck, Rubinfeld and Mehta: Microeconomics, Pearson Education Asia Maddala and Miller: Microeconomics- Theory and Applications, McGraw Hill Perloff, Jeffrey M. (2007): Microeconomics - Theory and Application with Calculus, Addison Wesley Cohen and Cyert, Theory of the Firm, Prentice Hall of India Shy, Oz: Industrial Organization: Theory and Applications, MIT Press.	
Module 4 Unit 1	Factor Market Labour demand and supply: competitive labour market – demand for labour when labour is the only variable input- demand for labour when several inputs are variable - Adding–up problem; monopsony; exploitation and role of trade union	20 12
Unit 2	Capital – demand for rented capital – the rental rate and the interest rate – nominal and real interest rate – market for bonds and market for stocks	04
Unit 3	Natural Resources - renewable and exhaustible resources - rent and quasi-rent for	03
Unit 4	land Entrepreneurship	01
	Suggested readings: Varian H.R: Intermediate Microeconomics: A Modern Approach, East West Press Pindyck, Rubinfeld and Mehta: Microeconomics, Pearson Education Asia Gould and Ferguson: Microeconomic Theory, Richard D. Irwin Perloff, Jeffrey M. (2007): Microeconomics - Theory and Application with Calculus, Addison Wesley	

PAPER VI	I MACROECONOMICS II Full	Marks: 50
Module 1 Unit 1	Classical Macroeconomics Say's law – saving and investment	16 02
Unit 2	Quantity theory of money	02
Unit 3	Labour market	02
Unit 4	Determination of income, employment, wage and interest rate	02
Unit 5	Dichotomy between real sector and monetary sector ; neutrality of money	02
Unit 6	Complete classical system and complete Keynesian system	06
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers Dornbusch and Fischer, Macroeconomics, McGraw-Hill Ackley, Macroeconomics : Theory and Policy, Macmillan Publishing Company Surrey (ed), Macroeconomic Themes, Oxford University F Mueller (ed), Readings in Macroeconomics, Holt, Rinehart Winston, Inc.	Press
Module 2	Inflation and Unemployment	08
Unit 1	Theory of inflation - Costs of inflation - Sources of inflation - Remainflation	edies to 02
Unit 2	Concepts of unemployment - Natural rate of unemployment - St unemployment - Frictional unemployment - Cyclical unemployment - Involunt voluntary unemployment	ructural 02 ary and
Unit 3	Phillips Curve	04
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers	
Module 3 Unit 1	AD-AS Model Derivation of the aggregate demand curve	10 01
Unit 2	Derivation of the aggregate supply curve from Phillips curve	01
Unit 3	Explanation of aggregate supply curve - Sticky price model - Sticky wage mode Imperfect information model - Worker misperception model	el - 06
Unit 4	Determination of price and income	02
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers	
Module 4 Unit 1	Investment Classification of investment - Business fixed investment - In investment - Residential investment	ventory 02
Unit 2	Theories of business fixed investment - Neoclassical theory - Tobin's Q	Q 06
Unit 3	Theory of inventory investment – acceleration principle	02

	Suggested readings:Mankiw, Macroeconomics, Worth Publishers Dornbusch and Fischer, Macroeconomics, McGraw-Hill Ackley, Macroeconomics : Theory and Policy, Macmillan Publishing Company	
Module 5 Unit 1	Supply of Money Definitions of money – M1, M2, M3 and M4	10 02
Unit 2	Money creation by commercial banks	02
Unit 3	Money multiplier	03
Unit 4	Control of money supply by the central bank	03
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers Dornbusch and Fischer, Macroeconomics (3 rd edition), McGraw- Hill Sikdar, Macroeconomics, Oxford University Press	
Module 6	Demand for Money	08
Unit 1	Keynesian theory of speculative demand for money	
Unit 2	Tobin's theory of speculative demand for money	02 03
Unit 3	Baumol-Tobin model of transaction demand for money	03
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers Dornbusch and Fischer, Macroeconomics (3 rd edition), McGraw- Hill Laidler, The Demand for Money:Theories and Practice,Allied Publishers Private Ltd Ackley, Macroeconomics : Theory and Policy, Macmillan Publishing Company	
PAPER V	II MATHEMATICAL ECONOMICS II Full Marks:	50
Module 1	Linear Algebra Revisited Input-output analysis- Leontief static closed and open models.	10
	Suggested readings: Mukherjee and Pandit, Mathematical Methods for Economic Analysis, Allied Publishers.	
Module 2 Unit 1	Dynamic Analysis Eigenvalues and Eigenvectors, Difference equations: First order equations, compound interest and present discounted values, linear equations with variable coefficients, second order equations with constant coefficients. Economic applications.	28 13
Unit 2	Differential equations: First order equations, separable differential equations,	15

qualitative theory and stability, second order differential equations with constant coefficients. . Economic applications.

Suggested readings:	Chiang & Wainwright, Fundamental Methods of	
	Mathematical economics, McGraw Hill.	
	Sydsaeter & Hammond, Mathematics for Economic	
	Analysis, Pearson Education.	
	Simon & Blume, Mathematics for Economists, Viva	
	Books.	
	Silberberg & Suen, The Structure of Economics,	
	McGraw Hill.	

Module 3	Game Theory	26
Unit 1	Defining a game structure: the basic concepts, categories of games (static & dynamic games, complete information-incomplete information games, perfect information-imperfect information games), normal-form and extensive-form presentation	04
Unit 2	Static games-2: Non-constant-sum games with unique pure strategy Nash equilibrium: Dominant strategy Nash equilibrium-Prisoners' Dilemma, rationalizable strategy- Cournot equilibrium.	05
Unit 3	Dynamic games-1: sequential-move games, backward induction outcome, SPNE.	06
Unit 4	Dynamic games-2: repeated games	03
Unit 5	Collective-action games	08
	Suggested readings: Dixit, Skeath, Reiley, Games of Strategy, W. W. Norton	

Aliprantis & Chakrabarti, Games and Decision Making, OUP R.Gibbons, Game Theory for Applied Economists, Princeton University Press.

FOURTH SEMESTER

Full Marks: 50 PAPER VIII MICROECONOMICS III Module 1 **Strategic Interaction and Oligopoly** 30 Prisoner's dilemma and oligopolistic interdependence - concept of Nash equilibrium Unit 1 02 Simultaneous Quantity Setting: Cournot Equilibrium; Simultaneous Price Setting: Unit 2 08 Bertrand Equilibrium and Bertrand Paradox, Product differentiation in Bertrand model. Sequential game with perfect information - Quantity Leadership: Stackelberg Unit 3 04 Equilibrium. Implications of the Prisoners' dilemma for oligopolistic pricing: Price Rigidity - Price Unit 4 06 Signaling and Price Leadership Unit 5 Collusion and Formation of Cartel; Cartel Instability. 08 Threats - Commitments - Credibility and Cartel Stability. Unit 6 Entry Deterrence 02 Selected Readings: Aliprantis and Chakrabarti: Games and Decision Making, OUP Pindyck, Rubinfeld and Mehta: Microeconomics, Pearson Education Asia.

Tirole, J.: The Theory of Industrial Organization, Pretice Hall Gravelle and Rees: Micro Economics, Pearson Education Sen, A.: Microeconomics – Theory and Applications, OUP

Module 2 Uncertainty and Information

Unit 1 Expected utility theorem and attitude towards risk - utility function and expected 10 utility; risk preference and risk aversion; concept of risk premium and certainty equivalence.

Applications:

Risk spreading: Role of the stock market - demand for risky assets – measuring risk - trade off between risk and return.

Reducing risk: demand for Insurance – fair premium, co-insurance, co-payments/ deductibles; Risk Pooling.

Unit 2 Markets with Asymmetric Information - quality uncertainty and the market for 06 Lemons: adverse selection and moral hazard <u>Applications</u>: Some examples of adverse selection and moral hazard

> Selected Readings: Varian H.R: Intermediate Microeconomics: A Modern Approach, East West Press Pindyck, Rubinfeld and Mehta: Microeconomics, Pearson Education Asia Perloff, Jeffrey M. (2007): Microeconomics - Theory and Application with Calculus, Addison Wesley Kreps, D. M.: A Course in Micro Economic Theory, Prentice Hall of India

Module 3 Economic Efficiency in a General Equilibrium Framework

- Unit 1 Pareto optimality and welfare, 2X2 Exchange: Pareto efficiency, Utility Possibility 08 Frontier; 2X2 Production: Pareto efficiency, Production Possibility Frontier; Social Indifference Curve, Grand Utility Possibility Frontier; Competitive equilibrium and Pareto efficiency.
- Unit 2 Externalities and market inefficiency difference between social costs and private 10 costs positive and negative externalities private solution to externalities Coase Theorem; Public policy towards externalities regulation, Pigovian tax and subsidies, tradable permits.

Introducing common property resources and public goods.

Suggested readings: Gould and Ferguson: Microeconomic Theory, Richard D. Irwin Perloff, Jeffrey M.: Microeconomics – Theory and Application with Calculus, Addison Wesley. Jehle, G. and Reny, P.: Advanced Microeconomic Theory, Addison Wesley. Mankiw and Taylor: Microeconomics, CENGAGE

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PAPER IX	X MACROECONOMICS III I	Full Marks: 50
Module 1	Open Economy Macroeconomics	20
Unit 1	Balance of Payment accounts	03
Unit 2	Determination of national income in an open economy	05
Unit 3	Mundell – Fleming model	06
Unit 4	Foreign exchange market	02
Unit 5	Effect of devaluation, tariff and export subsidy on output and trade balance	02
Unit 6	Internal and external balance and assignment problem with fiscal policy and exchange rate	02
	Suggested readings: Krugman and Obstfeld, International Economics : Tl and Policy, Pearson Education	heory
	Dornbusch, Open Economy Macroeconomics, Bas Books, Inc. Publishers	ic
	Caves and Jones, International Economics : Theory	y and
	Policy, Pearson Education	
	Mankiw, Macroeconomics, Worth Publishers	
Module 2	Alternative Schools of Macroeconomics	14
Unit 1	Rational Expectations Hypothesis	04
Unit 2	Real Business Cycle	06
Unit 3	Introduction to New Keynesian Economics	04
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers Dornbusch, Fischer and Startz, Macroeconomics,	
	Froyen, Macroeconomics : Theory and Policy, Pe- Education	arson
Module 3	Theory of Growth	30
Unit 1	Harrod model of growth and knife-edge instability	10
Unit 2	Neoclassical theory of growth	15
Unit 3	Introduction to endogenous growth	05
	Suggested readings: Mankiw, Macroeconomics, Worth Publishers	
	Barro and Sala-i-Martin, Prentice Hall of India Private	Ltd
	Sen (ed), Growth Economics, Penguine Education	

PAPER X

STATISTICS II

Module 1 Introducing Bivariate data

Definition of bivariate data, scatter diagram, Covariance as a measure of association; Coefficient of Simple Correlation- Properties and the method of calculation; Rank correlation (Spearman's Rank Correlation); Difference between the correlation approach and the regression approach.

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Full Marks: 50

	World Press Private Limited Nagar and Das: Basic Statistics, OUP	
	Bowen & Starr, Basic Statistics for Business and Economics,	
	McGraw Hill.	
Module 2	Random Variables and Probability Distributions	18
Unit 1	Definition of random variable: discrete and continuous random variable, probability mass function and probability density functions, Expectation and Variance of random variables, Joint Probability Distribution: Concept of Independence, Marginal and Conditional Distribution. Expectation of the product	
	of two variates.	06
Unit 2	Univariate Probability Distributions: Binomial, Poisson, Normal and Standard Normal Distribution –Recursive relations - Mean, Variance, Skewness and Kurtosis.	06
Unit 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).	06
	Suggested readings: Hoel, Paul, G.: Introduction to Mathematical Statistics, Wiley Series in probability and statistics	

Suggested readings: Goon, Gupta, Dasgupta: Fundamentals of Statistics, Vol I,

gs: Hoel, Paul, G.: Introduction to Mathematical Statistics,
Wiley Series in probability and statistics
Paul G. Hoel, Sidney C. Port, Charles J. Stone: Introduction to Probability Theory, Universal Book Store, Delhi
Mathai and Rathie: Probability and Statistics, The Macmillan Company of India Limited
Goon, Gupta, Dasgupta: Fundamentals of Statistics, Vol I,
World Press Private Limited
Nagar and Das: Basic Statistics, OUP
Bowen & Starr, Basic Statistics for Business and Economics, McGraw Hill.

Module 3 Sampling Theory

of degrees of freedom.

Unit 1	Population and Sample, Parameter and Statistic, Random Sampling: Methods of Drawing Random samples (with and without replacement). Basic Concepts of different methods of sampling –Stratified Sampling, clustered sampling, multi-	03
	stage sampling, purposive sampling	
Unit 2	Sampling Distribution, Standard Error.	02
Unit 3	Sampling Distributions associated with Normal Population, Expectation and	02
	Standard Error of Sample Mean (with and without replacement)	
Unit 4	Derived Distributions: Chi-Square Distribution, Student's t Distribution, F-	03
	Distribution (definition and important properties), Fisher's t distribution, concept	

Suggested readings: Cochran, W. G.: Sampling Techniques, 3rd ed. Willey Edition Goon,Gupta,Dasgupta: Fundamentals of Statistics, Vol I, World Press Private Limited

Mood, A.M., F.A.Greybill and D.C. Boes: Introduction to the theory of statistics, McGraw Hill

Module 4 **Classical Statistical Inference**

- Unit 1 Basic concepts of estimation: Desirable properties of estimators (Unbiasedness, 14 Minimum Variance, Consistency and Sufficiency), Methods of Point Estimation -Maximum Likelihood Estimators and their properties, Maximum Likelihood estimation of the parameters of Binomial, Poisson and Normal Distributions.
- Testing of Hypothesis: Confidence Intervals, p-values, Type-I and Type-II Errors, Unit 2 14 Simple applications of tests for the Mean and Variance of a Univariate Normal Population.

Suggested readings:	Goon, Gupta & Dasgupta: Fundamentals of Statistics, Vol
	I, World Press Private Limited
	Bowen & Starr, Basic Statistics for Business and
Economics,	
	McGraw Hill.
	Mood, A.M., F.A.Greybill and D.C. Boes: Introduction to
the	
	theory of statistics, McGraw Hill

FIFTH SEMESTER

PAPER X	IV INTERNATIONAL ECONOMICS Full M	larks: 50
Module 1	Basis for and Gains from trade	08
Unit 1	Arbitrage and basis of trade; Comparative (price) advantage; different sources of Comparative Advantage; Absolute versus comparative Advantage	03
Unit 2	Gains from Trade: Trade as a positive-sum game - Gains from Trade theorem, illustration and its meaning; GFT theorem and Pareto optimality; Decomposition of GFT; substitution possibilities in production and consumption and magnitudes of GFT; Necessary and sufficient conditions of GFT: Tangency and convexity conditions	05
	Suggested readings: Caves, Frankel, Jones, World Trades and Payments: (9th ed.) Pearson Education Jagdish N. Bhagwati, Arvind Panagariya, and T. N. Srinivasan, (2nd ed.) Lectures on International Trade.	
Module 2 Unit 1	International Equilibrium Offer curve under increasing opportunity costs: Derivation and Elasticity; International Equilibrium and determination of terms of trade; Offer curve under constant opportunity cost and distribution of GFT between large and small countries	06 04

Unit 2	Stability of International Equilibrium: Marshal-Lerner Condition	02
	Suggested readings: Krugman, Paul R. and Obstfeld, Maurice. International Economics: (8th ed.) Pearson Education Caves, Frankel, and Jones, World Trades and Payments: (9th Ed.) Pearson Education Salvatore, Dominick. International Economics (8th Ed.), Wiley India.	
Module 3	Ricardian Model of Trade	10
Unit 1	Doctrine of Comparative <i>Cost</i> Advantage and GFT	01
Unit 2	One-factor economy: Production Possibility Frontier, Relative demand and	02
Unit 3	supply, Autarkic terms of trade Trade in Ricardian model: Technology as basis of trade; complete	05
	specialization; Large and small countries revisited	
Unit 4	Extensions of Ricardian model: Many commodity extension; many country extension.	02
	Suggested readings: Krugman, Paul R. and Obstfeld, Maurice. International Economics: (8th Ed.) Pearson Education Caves, Frankel, Jones, World Trades and Payments: (9th Ed.) Pearson Education Salvatore, Dominick. International Economics (8th Ed.), Wiley India. Gandolfo, G. International Trade Theory and Policy, Springer.	
Module 4	Factor Abundance, Trade and Income Distribution	13
Unit 1	Two factor economy: Factor abundance, factor intensity reversal; Relation between Factor Endowment and Output (Rybsczynski Effect or the supply <i>shift</i>); Heckscher-Ohlin theorem: Factor abundance as basis for international trade	06
Unit 2	Relation between Commodity Price and Factor-Price (One-to-one correspondence); Factor Price Equalization theorem and its sources of disruptions (complete specialization; factor intensity reversal; factor immobility; non-traded good); Effect of trade on income distribution (price magnification effect)	
Unit 3	Leontief Paradox: Testing the model empirically.	01
	Suggested readings: Krugman, Paul R. and Obstfeld, Maurice. International Economics: (8th ed.) Pearson Education Caves, Frankel, and Jones, World Trades and Payments: (9th Ed.) Pearson Education Heller, H R., International Trade; Theory and Empirical Evidence, Prentice Hall. Gandolfo, G. International Trade Theory and Policy, Springer.	
Module 5 Unit 1	Specific Factor Model Specific Factor Model: Commodity Price, Factor Price, Factor Allocation;	05 04

Unit 1 Specific Factor Model: Commodity Price, Factor Price, Factor Allocation; maintaining full employment under flexible-coefficient production; Alternative

Unit 2	interpretation: Specific Factor model as "short run" Heckscher-Ohlin model. Relative price change and Income Distribution	01
	Suggested readings: Krugman, Paul R. and Obstfeld, Maurice. International Economics: (8th ed.) Pearson Education. Caves, Frankel, Jones, World Trades and Payments: (9th Ed.) Pearson Education. Gandolfo, G. International Trade Theory and Policy, Springer.	
Module 6	Commercial Policy	16
Unit 1	Partial equilibrium analysis of tariff; Tariff and Quota, Tariff-Quota equivalence (under perfect competition and monopoly), Effective Rate of Protection	04
Unit 2	General Equilibrium Analysis: Tariff in small and large country, Optimum Tariff, Metzler's Paradox	04
Unit 3	Tariff and income distribution; Wage gap debate; Tariff and alternative policy measures for special objectives, Infant industry argument for protection	04
Unit 4	Domestic distortion and policy interventions.	03
Unit 5	Other trade and non-trade barriers (Concepts only): VER; environmental regulations as non-tariff barriers.	01
	Suggested readings: Krugman, Paul R. and Obstfeld, Maurice. International Economics: (8th Ee.) Pearson Education Caves, Frankel and Jones, World Trades and Payments: (9th Ed.) Pearson Education Salvatore, Dominick. International Economics: (8th Ed.), Wiley India. Gandolfo, G. International Trade Theory and Policy, Springer.	
Module 7	Effect of Growth on Trade	06
Unit 1	Factor growth and production possibility; Trade and Growth induced by technical progress	03
Unit 2	Growth, terms-of-trade and welfare	03
	Suggested readings: Caves, Frankel, Jones, World Trades and Payments: (9th ed.) Pearson Education Gandolfo, G. International Trade Theory and Policy, Springer.	

PAPER XII DEVELOPMENT ECONOMICS I Full Marks: 50

Module 1	Meaning of Economic Development	18
Unit 1	The Income Approach: per capita income and distribution of income—the	02
Unit 2	measurement issues. The capability approach: development of the approach (preceding approaches like utility approach, minimum needs approach), entitlement and functionings,	10

standard of living as opposed to well-being and commitment. Attempts at and levels of aggregation (literacy rates, life-expectancy at birth, child mortality rates etc.; HDI, GDI).

Unit 3 International comparison using both approaches. Usefulness as well as problems of Income Approach. The Income Mobility matrix, the six stylized facts a la Kuznets about structural shifts in output and employment, role of technology in enhancing the productivity of social labour.
 A very brief introduction to the industrial revolution in Western Europe, spread of the industrial economy across the world in Asia, Africa and Latin America --

The Stages theories: Rostow and Marx.

Suggested readings: A.K Sen: The Standard of Living (Cambridge University

Press) Debraj Ray: Development Economics, (OUP) Commodity and Capability: Amartya Sen (OUP) A. K Sen: Poverty and Famine (OUP) S.Fukuda-Parr and A.K.Shiva (eds): Readings in Human Development (OUP) HDR 1995 and subsequent issues S. Kuznets "Modern Economic Growth: Findings and Reflections": (Nobel Lecture, 1971) W.W.Rostow: The Stages of Economic Growth (Cambridge University Press) Y.S.Brenner: Theories of Economic Development and Growth: (George Allen & Unwin) Irma Adelman: Theories of Economic Growth and Development: (Stanford University Press) P.Deane: The First Industrial Revolution: (Cambridge University Press) E.J.Hobsbawm: Industry and Empire: (Penguin) Y.Hayami: Development Economics: (OUP)

Module 2
Unit 1Alternative approaches to development
(i) Sectoral transformation - Lewis' model of growth with unlimited supply
of labour – Sen's model on condition of existence of surplus labour.
Attendant problems- (i) Harris-Todaro model of rural-urban

migration, (ii) terms of trade problem -- the Bukharin-Preobrazhensky debate

(ii) Trade and Development

Unit 2 Different worldviews: Modernism, ECLA and Dependency School.

Suggested readings: Debraj Ray: Development Economics (OUP)

K. Basu: Analytical Development Economics (OUP)
Y. Hayami: Development Economics (OUP)
Rune Skarstein: Development Theory (OUP)
P.W. Preston: Development Theory (Oxford-Blackwell)
H. Mynt: The Economics of the developing Countries (B.I. Publications)
AK Sen: Resources, Values and development (OUP)
Agarwala and Singh (eds.): The Economics of

23

15

08

Underdevelopment (OUP)			
A.Brewer: Marxist Theories of Imperialism, (Routledge)			
Alec Nove: An Economic History of the USSR (Allen			
Lane-Penguin)			

Module 3 Unit 1 Unit 2	of the State and role o role of the cotton texti Critical linkages in ec (b) Increasing returns	and Expectations ntarity, multiple equilibria and coordination failure- role f the Community. Balanced and Unbalanced Growth the le industry in Britain during the industrial revolution. onomy wide transformations. and the problem of market access. d Innovation and historical path dependency—barriers to	13 08 05
Clift 2	Induced Innovation.		
	Suggested readings:	 D. Ray: Development Economics, (OUP) Y. Hayami: Development Economics (OUP) H. Mynt: The economics of the developing countries (B.I. Publications) P. Deane: The First Industrial Revolution (Cambridge University Press) 	
Module 4 Unit 1	Market and the Stat The historical persp liberalization now	te bective– The laissez faire then and globalization-cum-	10 06
Unit 2		overnment failure, the problem of sustainable development	04
	Suggested readings:	 P. Deane: The First Industrial Revolution (Cambridge University Press) E.J. Hobsbawm: Industry and Empire (Penguin) Y. Hayami: Development Economics (OUP) B. Jalan: India's Economic Crisis (OUP) Sunanda Sen: Globalization and Development (National Book Trust, India) Stiglitz: Globalization and its Discontents (Penguin) J. Stiglitz: Making Globalization Work (Allen Lane) J.N. Bhagwati: In Defense of Globalization (OUP) P. Dasgupta: Economics, a Short Introduction (OUP) P. DSasgupta: Human Well-being and the Natural Environment (OUP) 	

PAPER XIII INDIAN ECONOMY IN PRE-INDEPENDENCE PERIOD Full Marks: 50

Module 1 Introduction

Why the study of economic history is important-How the course of British economic development in historical perspective influenced the path of India's economic history-How the needs of world capitalism are fulfilled if some regions remain underdeveloped in the world

Module 2	Impact of colonial rule on certain areas in the Indian economy	20
Unit 1	De-industrialization	06
Unit 2	Theory of economic drain and its impact on Indian economic development	10
Unit 3	Commercialization of Indian agriculture	04
Module 3	Aspects of British Imperial Policy:	30
Unit 1	Land policy from the Permanent settlement of Lord Cornwallis	04
Unit 2	Railways and Irrigation	06
Unit 3	Policy of Discriminating Tariff Protection	04
Unit 4	Early industrial development of India and the effects of the Managing Agency System	06
Unit 5	Currency and India's Monetary Policy	10
Module 4	Role of the State (the British government) in the economic (under) development of India	06
	 Suggested readings: Dharma Kumar : Cambridge Economic History of India Vol. II (Orient Longman in association with Cambridge University Press). Dhires Bhattacharyya : A Concise Economic History of India (Progressive Publishers) A.K. Bagchi : Private Investment in India (1900- 1939), Cambridge University Press Bipan Chandra : Rise and Growth of Economic Nationalism in India (People's Publishing House, New Delhi) Jathar and Beri : Indian Economics, vols. I and II (O.U.P.). D.R. Gadgil : The Industrial Evolution of India in recent times (O.U.P.). 	

PAPER XIV INTRODUCTION TO ECONOMETRICS

Module 1 Simple Linear Regression Model

Specifications of the Model – Assumptions – Deriving the Ordinary Least Squares (OLS) Estimates – Gauss Markov Theorem – Estimation of the Error Variance – Reverse Regression - Statistical Inference in the Linear Regression Model – Confidence Intervals for the Estimated Parameters and the Testing of Hypotheses – Coefficient of Determination – Prediction with the Simple Regression model.

Suggested readings: Maddala, G. S.: Introduction to Econometrics, Wiley Ramanathan, R.: Introductory Econometrics with Applications, Harcourt Publishers. Woolridge, J. M: Econometrics, CENGAGE Johnstone & Dinardo, Econometric methods, McGraw Hill 20

Full Marks: 50

Suggested readings: Maddala, G. S.: Introduction to Econometrics, Wiley Ramanathan, R.: Introductory Econometrics with Applications, Harcourt Publishers. Woolridge, J. M.: Econometrics, CENGAGE Johnstone and Dinardo, Econometric methods, McGraw Hill Introduction to Multiple regression and problem of Multicollinearity Module 3 Motivation for Multiple Regression - Examples - Problem of Multicollinearity Suggested readings: Maddala, G. S.: Introduction to Econometrics, Wiley Ramanathan, R.: Introductory Econometrics with Applications, Harcourt Publishers. Woolridge, J. M: Econometrics, CENGAGE Johnstone and Dinardo, Econometric methods, McGraw Hill Module 4 **Time-Series Analysis** Models of Time Series: Purely Random Process, Random Walk, Moving Average, Auto Regressive Process, Auto Regressive Moving Average Process. Different components of time series and their measurements. Suggested readings: Maddala, G. S.: Introduction to Econometrics, Wiley Nachane, D. M.: Econometrics: Theoretical foundations and empirical perspectives, OUP PAPER XV **COMPUTER APPLICATIONS** Full Marks: 50 Module 1 **Basics of Excel** 24 Introduction to Excel Excel Basics needed for Statistical Analysis of the Data Data Presentation and Data Management Formulas and Functions Sort and Filter 24 Module 2 **Using Excel for Statistical Analysis** Methods for Describing Univariate Data Set: Graphical, Numerical (Measure of Center, Spread, Relative Standing, Skewness, Kurtosis, etc.), Use of both the graphical and numerical techniques to present and interpret economic data handling bivariate data Correlation **Classical Regression** Detection and Solution of Heteroscedasticity and Autocorrelation Concept of Multivariate Regression and Detection of Multicollinearity

Analysis of Residuals - Heteroschedasticity and Autocorrelation Problems - First Order Autoregressive Process – Consequences of applying OLS under Heteroschedasticity and Autocorrelation - Durbin-Watson Test, Glesjer Test,

Module 2

Problems in OLS Methods

Goldfeld-Quandt Test.

20

10

- **Using Excel to solve equation systems** Use of Solver Module 3
 - Module 4 **Corel Draw** Graphical analysis using Corel Draw

SIXTH SEMESTER

PAPER XVI	PUBLIC ECONOMICS Full Marks	: 50
Module 1 Unit 1 Unit 2	 Objectives of government budget Musgrave's three branches: allocation, distribution, stabilization Public goods (social wants) provisioning: The problem of preference revelation: (i) The voting route: Majority voting and the voting paradox, Arrow's Impossibility Theorem, single-peaked preferences, the median voter, the inefficiency of majority voting equilibrium. (ii) The tax route: The Benefit Approach to taxation and expenditure, Lindahl model & Pareto efficiency, preference revelation mechanism revisited. 	21 03 18
	Suggested readings: Musgrave, The Theory of Public Finance, MCGraw Hill Stiglitz, J., Economics of the Public Sector, W.W. Norton Ghosh & Ghosh, Economics of the Public Sector, Prentice Hall.	
Module 2 Unit 1 Unit 2 Unit 3 Unit 4	Tax Incidence and Principles of Taxation Incidence of taxation Economic efficiency, optimal taxation. Administrative simplicity, Flexibility, political responsibility Fairness: The Benefit Approach, Ability-to-pay Approach (horizontal and vertical equity).	30 05 13 03 09
	Suggested readings: Musgrave, The Theory of Public Finance, McGraw Hill Stiglitz, J., Economics of the Public Sector, W.W. Norton Ghosh & Ghosh, Economics of the Public Sector, Prentice Hall. Allan, C.M., The Theory of Taxation, Penguin. Atkinson, D. & Stiglitz, J., Public Economics, McGraw Hill. Bagchi, Amaresh (ed) Readings in Public Finance, OUP.	
Module 4 Unit 1 Unit 2 Unit 3 Unit 4	Budget, Public Debt,Fiscal Federalism and Indian Budget Budget items and different concepts of deficits and surpluses Public Debt Principles of fiscal federalism with reference to India Indian Central and State budgets in practice	13 03 03 02 05
	Suggested readings: Stiglitz, J., Economics of the Public Sector, W.W. Norton	

Ghosh & Ghosh, Economics of the Public Sector, Prentice Hall.

GOI, Budget documents including 'An Economic and Functional Classification of Central Government Budget'. Houghton, R.W. (ed) Public Finance, Penguin. Atkinson & Stiglitz, Public Economics, McGraw Hill. Bagchi, Amaresh (ed) Readings in Public Finance, OUP. Tapas Mazumdar (ed) Man, Nature & the Indian Economy, OUP.

PAPER XVII DEVELOPMENT ECONOMICS II Full Marks: 50

Module 1 Inequality and Poverty

- Unit 1 Meaning of inequality Measures (Lorenz curve, Gini Coefficient) Kuznets inverted 04 U hypothesis.
- Unit 2 Relative and absolute deprivation with respect to income Concept of poverty line 12 Measures (HCR, PGR, Human Poverty Index) Social dimensions of poverty (rural, ethnic minorities and indigenous population) class decomposable poverty measure by Foster-Greer-Thorbecke World Bank approach to tackling poverty.
 How serious is the Neglect of Intra-Household Inequality? Improving Health and Education: Why Increasing Income is not Sufficient

Suggested readings: Todaro & Smith: Economic Development, Pearson.

Debraj Ray: Development Economics. Oxford. World Development Report, 2001 Subramanian, S. (ed.): Measurement of Inequality and Poverty Banerjee, A. V., Benobou, R. and Mookherjee, D. (Ed.): Understanding Poverty Sen, A.K. Inequality re-examined. Oxford.

Module 2 Economics of the Household and Gender Disparities

Traditional models of household decision-making – Cournot-Nash bargaining approach – Intra-household resource allocation and disparities – Gender issues - Measuring Intra-household inequality; Gender inequality and economic growth.

Suggested readings: Sen: "Economics of the family" (in Uberoi ed Family, Kinship and Marriage in India) Bina Agarwal: Field of one's own: gender and land rights in

> South Asia, Cambridge University Press (Chapter 2) Alderman, Harold, Lawrence Haddad and John Hoddinott, eds. (1997): "Intrahousehold Resource Allocation: Models, methods and policy." Johns Hopkins University Press.

> Blackden, C.M., and C. Bhanu (1999): 'Gender, Growth, and Poverty Reduction', *World Bank Technical Papers* 428, Special Programme of Assistance for Africa, 1998 Status Report on Poverty, World Bank: Washington DC.

> Klasen, S. (1999): Does Gender Inequality Reduce Growth and Development? Evidence from Cross-Country Regressions. Policy Research Report on Gender and Development Working Paper Series, No. 7.

16

Social Watch (2005) Roars and Whispers, Gender and Poverty: Promises versus Action, Social Watch, Montevideo.

Module 3 Human Development

Importance of Health and Education – Education and Health as Joint Investments for Development – Human capital approach

Incorporating gender issues in Human Development - Gender-Related Development Index (GDI), Gender Empowerment Measure (GEM) and their limitations – moving towards Gender, Institutions and Development (GID) - Social Institutions and Gender Index (SIGI).

Suggested readings: Todaro & Smith: Economic Development.

Dasgupta, P.: Measuring the Quality of Life, *World Development*, 20(1): 119-131.

Abu-Ghaida, D., and S. Klasen (2004). 'The Costs of Missing the Millenium Development Goals on Gender Equity', *World Development* 32: 1075-1107.

Dijkstra, A.G. and Hanmer, L.C. (2000) 'Measuring socioeconomic gender inequality: Towards an alternative to the UNDP Gender-Related Development Index', Feminist Economics, 6(2), pp. 41–75.

Jütting, J. P., Morrisson, C., Johnson J. D. and Drechsler, D. (2006). Measuring Gender (In) Equality: Introducing the Gender, Institutions and Development Data Base (GID), OECD Development Centre Working Paper No. 247.

Branisa, B., Klasen, S. and Ziegler M. (2009) New Measures of Gender Inequality: The Social Institutions and Gender Index (SIGI) and its Subindices. Courant Research Centre, Georg-August-Universität Göttingen Discussion Papers on 'Poverty, Equity and Growth in Developing and Transition Countries: Statistical Methods and Empirical Analysis' No. 10.

Module 4 Inequality in Health and Health Care

Poverty, inequality and health in international perspective: a divided world? - Global burden of disease - Government Intervention.

Do health care systems contribute to inequalities? - Equity in distribution of health care – measurement – horizontal inequity and vertical equity – health concentration curve; Equity in health care financing – vertical equity, Kakwani's Progressivity Index, the relationship between progressivity and health care financing systems, horizontal equity

Suggested readings: S. Anand, F. Peter and A. Sen (edtd.): Public Health, Ethics and Equity (Papers 1 and 2)
D. Leon and G. Walt (edtd.): Poverty, Inequality and Health: An International Perspective (Papers 1 and 9)
Morris, Devlin and Parkin: Economic Analysis in Health Care (Chapter 5 and 7)
Gwatkin, D. R . (2000): "Health Inequalities and the Health of the Poor: What do we know? What can we do?" *Bulletin of the World Health Organization* 78(1): 3-18. http://www.who.int/docstore/bulletin/pdf/2000/issue1/bu0287. 16

<u>pdf</u>

Sen, Amartya. "More than 100 Million Women Are Missing." *The New York Review of Books* 37(20) (Dec 20, 1990). http://ucatlas.ucsc.edu/gender/Sen100M.html Lopez, Alan D., Colin D. Mathers, Majid Ezzati, Dean T. Jamison, and Christopher J. L. Murray (2006). "Global Burden of Disease and Risk Factors" http://www.dcp2.org/pubs/GBD.

Module 5 Inequality in Education

10

Demand and supply of education - Cost of education - Education financing – Teaching and outcomes - Gender inequalities - Child Labor - Educational Systems and Development.

Suggested readings: Todaro and Smith, Development Economics, Addison Wesley.

Orazem, Peter F. and Elizabeth M. King (2009). "Schooling in Developing Countries: The Roles of Supply, Demand and Government Policy." In Schultz, T. and John Strauss, eds., Handbook of Development Economics, Volume 4. Amsterdam: North Holland, Chapter 55, pp. 3475-3559. Glewwe, Paul, and Michael Kremer (2008). "Schools, Teachers, and Education Outcomes in Developing Countries." In Hanushek, Eric and Finis Welch, eds., Handbook of the Economics of Education, Volume 2. Amsterdam: North Holland, Chapter 16, pp. 945-1017.

PAPER XVIII INDIAN ECONOMY IN POST-INDEPENDENCE PERIOD Full Marks: 50

SECTION I: Prior to Economic Reforms (1991)

Module1	Indian Economy at the time of Independence Features of the Indian Economy around 1947-1950	02
	Suggested readings: Uma Kapila , Indian Economy ,Academic Foundation, Chap. 1 Bipan Chandra in Bimal Jalan (ed.) Indian Economy: Problems and Prospects, Penguin Books India (P) Ltd.	
Module2	Planning: Evolution of India's development goals and strategies	20
Unit 1	Background and structure of planning	04
Unit 2	Structural constraints and Indian development strategy: Debates between Public sector vs. Private sector, Consumer goods vs. Capital goods, Import substitution vs. Export promotion.	06
Unit 3	Agriculture Industry relationship – Food crisis of the sixties	03
Unit 4	Poverty Eradication	04
Unit 5	Regional Inequalities	03
	Suggested readings: Uma Kapila, Indian Economy, Academic Foundation, Chapters 1, 2, 3, 11	
	Chakraborty, S., The Indian Development Experience, O.U.P.	

Bhagwati J. and Chakraborty S., Contributions to Indian
Economic Analysis, Lalvani Publishing House
Streeton and Lipton, The crisis in Indian Planning, O.U.P.
Pramit Chaudhuri, The Indian Economy, Vikas Publishing
House

Module 3 Unit 1 Unit 2 Unit 3 Unit 4 Unit 5	Major issues and their impact in Indian Agriculture Green Revolution in India Land Reforms Tenancy of different kinds and their effects Marketable Surplus Minimum Agricultural Prices	15 04 04 02 03 02
	Suggested readings:Pramit Chaudhury (ed.), Readings in Indian Agricultural Development, George Allen and Unwin Ltd. Charan Wadhwa (ed.), Some Problems of India's Economic Policy, Tata Mcgraw Hill Publishing Co. Ltd. C.H. Hanumanth Rao, Technological Change and Distribution of Gains in Indian Agriculture, Macmillan A.M. Khusro, Readings in Indian Agriculture S. Cheung, Theory of Share Tenancy, University of Chicago Press Jalan (ed.) Indian Economy ; Problems and Prospect, Penguin Books India Pvt. Ltd.	
Module 4 Unit 1 Unit 2	Major issues in Indian Industry and their impact Industrial stagnation – causes and remedies Industrial licencing – justification and problems	05 03 02
	 Suggested readings; Uma Kapila, Indian Economy, Academic Foundation, Chapter 18. Rakesh Mohan in Bimal Jalan (ed.) Indian Economy: Problems and Prospects, Penguin Books India Pvt. Ltd. Bagchi and Banerjee, Change and Choice in India Industry, K.P. Bagchi and Co. Bhagwati and Desai, Planning for Industrialization, OUP. 	
Module 5 Unit 1 Unit 2 Unit 3 Module 6	Poverty and Unemployment in India Measurement of poverty Programmes for removal of poverty Different types of unemployment in India The external sector of the Indian Economy – Pattern of export and import trade prior to 1991 – Various problems	06 02 02 02 02 02
	Suggested readings: Uma Kapila, Indian Economy, Academic Foundation Bhagwati and Srinivasan, Foreign Trade Regimes and Economic Development ; India, Macmillan Wadhwa (ed), Some problems of India's economic policy, Tata Mcgraw Hill Publishing Co. Ltd.	

	SECTION II: Post Reform Period	
Module 1 Unit 1	Reforms in the Indian tax structure Reforms in tax structure – the report and reomendations of the Chelliah	04 02
Unit 2	Committee, 1991 Reforms in indirect taxes	01
Unit 3	Reviewing the policy of deficit financing	01
	Suggested readings: Report of the Chelliah Committee on tax reform, 1991 Report of the Kelkar Committee on direct and indirect tax reform, 2003	
Module 2	Monetary Policy and the Reserve Bank of India	05
Unit 1	Reviewing recent changes in the Monetary Policy of the Reserve Bank of India – the correct mix between growth promoting measures and control of inflation- which policy instruments used and to what extent?	03
Unit 2	Recommendations of the Sukhamay Chakraborty Committee (1985) regarding working of the monetary system in India.	01
Unit 3	Capital market in India – its structure – SEBI and the growth of the capital market	01
	Suggested readings: Report of the Chakraborty Committee, 1986 Bulletins of the Reserve Bank of India Reports on Currency and Finance, Government of India	
Module 3	International Trade and Capital Account Convertibility	05
Unit 1	Foreign Trade Policy, 2009-2014	02
Unit 2	Special Economic Zones – arguments in favour of and against them	01 01
Unit 3 Unit 4	Foreign Investment Inflows since 1991 – FII and FDI Recent changes in Exchange Rate Policy – the question of Capital Account Convertibility	01
	Suggested readings: Report of the Tarapore Committee, 2006 EXIM Policy of the Government of India, 2009 onwards Singh, K.:Foreign Direct Investment in India: A Critical Analysis of FDI from 1991-2005, Centre for Civil Society, New Delhi, 2005	
PAPER X	IX INTERNATIONAL ECONOMIC ORDER Full Marks:	50
Module 1	Salient features of globalization 0	4

Vlodule I	Salient features of globalization
	Different world views about the global economy and its dynamics - Neo-liberal
	versus the more radical positions
	Suggested readings: Sinha, Anup: "Globalization: Features and Possibilities"

in A. Sen and P.K. Sett (ed.) Managing Business in the 21st Century Oxford India Paperbacks, New Delhi 2006

Module 2	Rise of the Modern Welfare State The Great Depression and the rise of the Welfare State	04
	Suggested readings: Barr, N.: Economics of the welfare state. New York: Oxford University Press	
Module 3	Global Institutions and New Economic Order	06
Unit 1 Unit 2	The Bretton Woods Institutions GATT and the advent of the WTO	08
	Suggested readings: Sabine, Dammasch: The Bretton Woods Institution: A Lesson from History. Stiglitz, J: Globalization and its discontents. W.W. Norton & Co.	
Module 4	Globalization and Innovations Globalization and Innovations - social and economic consequences	06
	Suggested readings: Dorf, Richard: Technology, Humans and Society: Towards a Sustainable World Academic Press, UK 2001 (pages 174-190) O'Brien, Roberts and Marc Williams: Global Political Economy: Evolution and Dynamics Palgrave Macmillan, NY, 2007. Chapter 6 (pages 174-207)	
Module 5	Globalization and Market Integration Globalization and Market Integration – rise of corporate power	06
	Suggested readings: Krugman, P. and M. Obstfeld International Economics, 6 th Edition, Pearson Education, 2005. Chapters14 and 15 (pages 389 to 464). O'Brien, Roberts and Marc Williams: Global Political Economy: Evolution and Dynamics Palgrave Macmillan, NY, 2007. Chapter 5 (pages 137-173) Dornbusch, Rudiger: Open Economy Macroeconomics Basic Books New York, 1980. (pages 175-214)	
Module 6	Instability of Growth Globalization and Instability of GDP growth – crisis and contagion	06
	 Suggested readings: Ellis, Joseph: Ahead Of The Curve: A Commonsense Guide To Forecasting And Market Cycles Harvard Business School Press, 2005 Chapters 1-6, (pages3-72) Casti, John: Complexification Abacus, 1994 Chapter 1 (pages 1-42) Krugman, P. The Return Of Depression Economics Penguin Books 2000 Chapters 5-7 pp 85-136 Rakshit, M. K.: "The Subprime Crisis: A Primer" in Money and Finance Volume 3, Number 3, May 2008 (pages 75-124) Krugman, P. and M. Obstfeld International Economics, 	

Module 7	6 th Edition, Pearson Education, 2005. Chapter 21 (pages 668 - 696). Rodrick, D. Growth after the Crisis. http://www.growthcommission.org/ storage/ cgdev/documents/financial_crisis/rodrikafterthecrisis.pdf Carmen Reinhart and Ken Rogoff, This Time is different: Eight centuries of financial folly. Princeton University Press 2009 Inequality of Income and Wealth	06
	Globalization and Inequality – intra- versus inter-generational resource use	
	Suggested readings: Wade, Robert H. "Globalization, Poverty and Inequality" in John Ravenhill (ed.) Global Political Economy Oxford University press Oxford, 2005 (pages 291-316) Dasgupta, P: Human Well-being and the Natural Environment Oxford University Press, New Delhi 2001 (pages 86-161) Stern, N. "The Economics of Climate Change" American Economic Review Volume 98, Number 2, May 2008 Starke, Linda (ed.): 2008 State of the World: Innovations for a Sustainable Economy (anarc 75 – 150)	
	for a Sustainable Economy (pages 75 – 150)	
Module 8	Globalization and Environment Environmental issues - economics of climate change	06
	Suggested readings: Panayotou, T. Globalization and the environment. Lord Nicholas Stern, Stern review on the economics of climate change Lord Nicholas Stern, What is the economics of climate change, World Economic Affairs, 7(2), 2006: 1-10	
Module 9	Millennium Development Goals Millennium Development Goals	04
	Suggested readings: UNDP: Millenium Development Goals Report: An assessment, Vol 1.	
Module 10 Unit 1 Unit 2 Unit 3	Possible future scenarios Future of the Nation State and Global Governance Individual, Society and Economy Economic possibilities for our grandchildren	08
	Suggested readings: Nayyar, Deepak: "Towards Global Governance" in Nayyar, Deepak (ed.): Governing Globalization Oxford University Press, New Delhi 2002 (pages 3-18) You, Jong-II: "The Bretton Woods Institutions:Evolution, Reform, and Change" in Nayyar, Deepak (ed.): Governing Globalization Oxford University Press, New Delhi 2002 (pages 209-237)	

Stiglitz, Joseph: "Globalization and the Logic of International Collective Action: Reexamining the Bretton Woods Institutions" in Nayyar, Deepak (ed.): Governing Globalization Oxford University Press, New Delhi 2002 (pages 238-253) Costanza, Robert: "Four Visions of the Century Ahead: Will it be Star Trek, Ectopia, Big Government, or Mad Max?" in Dorf, Richard: Technology, Humans and Society: Towards a Sustainable World Academic Press, UK 2001 (pages 190-197) Korten, David: "System Design for a Post-Corporate World" in Dorf, Richard: Technology, Humans and Society: Towards a Sustainable World Academic Press, UK 2001 (pages 197-201) Laubacher, Robert and Thomas Malone: Two Scenarios for 21st Century Organizations: Shifting Network of Small Firms or All-Encompassing "Virtual Countries"? Working Paper 21C WP #001 (1997) Sloan School of Management, MIT.

PAPER XX

PROJECT / TERM PAPER

Full Marks: 50

Guidelines for Project / Term Paper

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.

PRESIDENCY UNIVERSITY B.A./B.Sc. Elective Extra Departmental Course in Economics Course A Total Marks 300

MICROECONOMICS I

PAPER I

Module 1 Unit 1	Introduction to Price Theory What is economics – Scarcity and choice – Opportunity cost - Economic problems - Economic systems - Branches of economics – Microeconomics and Macroeconomic - Positive and Normative Economics - Economic agents - Circular Flow of Income	
Unit 2	Elementary concepts of market demand and market supply curves - Market equilibrium.	t 05
Unit 3	Determinants of market demand and market supply – comparative statics.	05
Module 2 Unit 1 Unit 2	 Theory of Consumer Behaviour Cardinal utility – law of diminishing marginal utility – derivation of the Marshallia demand curve and its elasticity implications. Ordinal utility – axioms; indifference curves, budget constraint and consumer' equilibrium. Price – consumption curve – income-consumption curve and Engel's curve – demane elasticities and classification of commodities: normal, inferior and Giffen goods Substitution and income-effects and law of demand. 	s 18 1
Module 3 Unit 1 Unit 2	Producer's Behaviour Technology and technological efficiency – general concept of production function – concepts of total product, average product and marginal product – economic range of production – return to factor and returns to scale – isoquants and diminishing rate of factor substitution – elasticity of substitution. Economic / Opportunity cost and accounting cost, concept of sunk cost; tim dimension of cost – cost in the short run – total cost – fixed and variable cost – marginal cost – average cost – derivation of short run cost – long run cost function – functional coefficient and shape of long run average cost.— relation between short run and long run cost; expansion path; relation between expansion path and long run total cost curve.	f f = 10 - t
Unit 3	 total cost curve. Revenue – Total Revenue – Average Revenue – Marginal Revenue. Revenue and price elasticity of demand. Suggested readings: Lipsey and Chrystal: An Introduction to Positive Economics, OUP Samuelson, P. A. and W. D. Nordhaus: Economics, Mc-Grav Hill Stiglitz and Walsh: Economics, W.W. Norton & Company 	04 v

Full Marks: 50

PAPER II	MACROECONOMICS I Full Marks	: 50
Module 1	Introduction to Macroeconomics	04
Unit 1	Introduction to macroeconomic variable	02
Unit 2	Microeconomic and macroeconomic approache	02
Module 2	National Income Accounting	20
Unit 1	GDP, GNP, NDP, NNP and NI	06
Unit 2	Circular flow of income	02
Unit 3	Measurement of National Income – problems encountered	08
Unit 4	National income as a measure of welfare	04
Module 3	Determination of Income – Simple Keynesian Model	15
Unit 1	Keynesian consumption function	05
Unit 2	Equilibrium in the commodity market	05
Unit 3	Multiplier	05
Module 4	Classical Theory of Employment and Income	15
Unit 1	Say's law of markets	05
Unit 2	Theory of employment	10
Module 5	Investment	10
Unit 1	Classification of investment: Business fixed investment, Inventory investment,	05
	Residential investment	
Unit 2	Determinants of investment	05
	Suggested readings: Samuelson and Nordhaus, Economics, McGraw Hill	
	Stonier and Hague A Text Book of Economic Theory	

Stonier and Hague, A Text Book of Economic Theory, Longman Group Lipsey, An Introduction to Positive Economics, Weidenfeld and Nicholson

PAPER III MICROECONOMICS II Full Marks: 50

Module 1	Introduction to Market Economics	04
	Concepts of Perfect Competition, Monopoly, Monopolistic Competition and Oligopoly	
Module 2	Perfect Competition Assumptions; economic vs. accounting profit; short-run profit maximization – short-	20
	run supply curve of the firm and the industry; output choice and competitive	
	equilibrium in the long run – economic rent and profit; long-run industry supply curve	
	under constant, increasing and decreasing costs; consumer's and producer's surplus –	

effects of tax and subsidy - deadweight losses.

Module 3 Monopoly

Profit maximization of a single plant monopolist Measuring monopoly power - sources of monopoly power - social costs of monopoly power - rent seeking, price regulation and natural monopoly; limiting market power -

antitrust laws.

Capturing consumer surplus: price discrimination

20
04
04
06
03
03

Suggested readings: Lipsey and Chrystal: An Introduction to Positive Economics,

OUP Samuelson, P. A. and W. D. Nordhaus: Economics, Mc-Graw Hill Stiglitz and Walsh: Economics, W.W. Norton & Company Stonier and Hague, A Text Book of Economic Theory, Longman Group Ltd., London

PAPER IV	MACROECONOMICS II Full Marks:	50
Module 1	Money and Banking	20
Unit 1	Definition and functions of money	02
Unit 2	Measures of money supply $-M1$, M2, M3 and M4	02
Unit 3	Functions of commercial banks	04
Unit 4	Money creation by commercial banks	04
Unit 5	Functions of the central bank	04
Unit 6	Control of money supply by the central bank	04
Module 2	Quantity Theory of Money	08
Unit 1	Fisher's version	04
Unit 2	Cambridge version	04
Module 3	Inflation	22
Unit 1	Definition and measurement of inflation – price indexes(WPI and CPI)	04
Unit 2	Impact of inflation on the economy	04
Unit 3	Sources of inflation: Demand-pull inflation, Cost-push inflation	06
Unit 4	Remedies to inflation - Monetary measures - Fiscal measures - Other measures	06
Module 4	Open Economy Macroeconomics	14
Unit 1	Balance of Payment	04
Unit 2	Determination of national income in an open economy	04
Unit 3	Exchange rate: Definition, Determination, Fixed rate regime, floating rate regime and managed float	06
	Suggested readings: Samuelson and Nordhaus, Economics, McGraw Hill	
	Stonier and Hague, A Text Book of Economic Theory,	
	Longman Group Ltd., London	
	Lipsey, An Introduction to Positive Economics, Weidenfeld and	
	Nicholson	
	Gupta, Monetary Economics, S. Chand and Co	

PAPER VINDIAN ECONOMIC PROBLEMSFull Marks: 50

Module 1 Unit 1	The structural change – sectoral and spatial of Indian economy since		05 02
Unit 2	independence India's per capita income and its growth both in comparison to its own past and to the rest of the world. India in terms of Human Development Index.		03
Module 2	Indian Planning		13
Unit 1	Background for Indian Planning; Evolution of priorities and strategies of India's Five Year Plans.		05
Unit 2	Assessment of achievements and failures of Planning.		08
Module 3	Indian Agriculture		11
Unit 1	Characteristics of Indi	an agriculture at the time of independence	02
Unit 2	Assessment of Land R		03
Unit 3	Green Revolution stra		05
Unit 4	Agriculture in the post		01
Module 4	Indian Industry		11
Unit 1	Composition of Indian	i industry.	02
Unit 2	Evolution of industrial		06
Unit 3	Industry in post-Reform India.		03
Module 5	Banking and Finance	e in India	10
Unit 1		ector in economic development of India.	04
Unit 2	Reforms in the banking sector.		03
Unit 3	Development of capital market in India.		03
Module 6	Indian Public Financ	e	10
Unit 1	Central and state budgets – revenue and capital accounts, heads of expenditure and receipt, plan & non-plan expenditures, developmental & non-developmental		05
Unit 2	expenditures, concepts of different deficits. Centre-State financial relation.		05
Module 7	India's Balance of Pa		04
Unit 1	Evolution of trade policy in India		02
Unit 2	Impact of trade liberalization on volume and direction of trade for India.		02
	Suggested readings:	Kapila, Uma: Indian Economy: Performance and Policies 2009-10, Academic Foundation	
		Kapila, Uma (ed.): India's Economic Development since 1947, Academic Foundation	
		Misra, S.K & Puri, V.K: Indian Economy, Himalayas Publishing	
		Agarwal, A.N: Indian Economy, Vikas Publishing	

PAPER VII	DEVELOPMENT ECONOMICS Full Mark	s: 50
Module 1	Meaning of Economic Development Distinction between economic development and economic growth – per capita GDP and HDI.	09
Module 2	Economic Systems Meaning of economic system; Institutions based on Tradition, Command, and Market ; Capitalist and Socialist Systems; Mixed economies	07
Module 3	Vicious Circle of Underdevelopment The role of critical minimum effort and expectations	
Module 4 Unit 1 Unit 2	Development Planning Importance of Planning; types of Planning – imperative and indicative Planning; the institutions and instruments of Planning. Balance among primary, secondary and tertiary sectors – the balanced variables	
Module 5 Unit 1 Unit 2	 unbalanced growth theory. Population, Capital and Technology Population and economic development – the interplay of the two. The role of physical and human capital in economic development – problem of capital formation, technological progress and choice of technique in a less developed economy - role of institution building and incentive designing in economic growth and development. 	
Module 6	Foreign Investment FDI as against portfolio investment; Role of foreign investment in filling the resource gap and technological gap – the role of MNCs in the developing countries.	
Module 7	Sustainable Development Meaning, importance, and basic issues.	08
	Suggested readings:Grossman, G:Economic Systems (Prentice Hall) Gill, R.T: Economic Development: Past and Present (Prentice Hall) Todaro, M.P: Economic Development in the Third World (Longman) Ray, D: Development Economics (OUP) Myint, H: The Economics of the Developing Countries (B.I. Publications) Dasgupta, P: A Short Introduction to Economics (OUP) Salvatore, D. and Dowling, E: Development Economics (Schaum's Outline Series in Economics, McGraw-Hill) UNDP: Human Development Reports (Different Years)	:

PRESIDENCY UNIVERSITY B.A./B.Sc. Elective Extra Departmental Course in Economics Course B Total Marks 100

PAPER I

PRINCIPLES OF ECONOMICS

Full Marks: 50

10

Group A Full Marks: 25

Module 1 Introduction

What is economics – Scarcity and choice – Opportunity cost - Economic problems – Economic systems - Branches of economics – Microeconomics and Macroeconomics - Positive and Normative Economics - Economic agents - Circular Flow of Income

Suggested readings: Lipsey and Chrystal: An Introduction to Positive Economics, OUP Samuelson, P. A. and W. D. Nordhaus: Economics, Mc-Graw Hill

Module 2	Elements of Markets	22
Unit 1	Evolution of market economics – Price systems and the 'Invisible hand'	02
Unit 2	Elementary concepts of market demand and market supply curves - Determinants of market demand and market supply – Law of demand and supply – Exceptions – Concept of elasticity and determinants.	08
Unit 3	Difference between Cardinal Utility Approach and Ordinal Utility Approach in derivation of the demand curve	04
Unit 4	Concepts of Fixed and Variable Costs, Average and Marginal Costs	02
Unit 4	Perfect competition - Market equilibrium – comparative statics - stability.	06
	Suggested readings: Lipsey and Chrystal: An Introduction to Positive Economics,	

OUP

Samuelson, P. A. and W. D. Nordhaus: Economics, Mc-Graw Hill

Group B Full Marks: 25

Module 3	National Income Accounting	16
Unit 1	GDP, GNP, NDP, NNP and NI	06
Unit 2	Circular flow of income	02
Unit 3	Measurement of National Income – problems encountered	04
Unit 4	National income as a measure of welfare	04
Module 4	Determination of Income – Simple Keynesian Model	12
Unit 1	Keynesian consumption function	04
Unit 2	Equilibrium in the commodity market	04
Unit 3	Multiplier	04

Module 5	Money	04
	Money – its functions	02
	Demand and Supply of Money	02

Suggested readings: Samuelson and Nordhaus, Economics, McGraw Hill Stonier and Hague, A Text Book of Economic Theory, Longman Group Lipsey, An Introduction to Positive Economics, Weidenfeld and Nicholson

PAPER II INDIAN ECONOMIC PROBLEMS Full Marks: 50

Module 1	The Indian Economy: An Overview	05
Unit 1	The structural change – sectoral and spatial of Indian economy since independence	02
Unit 2	India's per capita income and its growth both in comparison to its own past and to	03
	the rest of the world. India in terms of Human Development Index.	05
Module 2	Indian Planning	13
Unit 1	Background for Indian Planning; Evolution of priorities and strategies of India's Five Year Plans.	05
Unit 2	Assessment of achievements and failures of Planning.	08
Module 3	Indian Agriculture	11
Unit 1	Characteristics of Indian agriculture at the time of independence	02
Unit 2	Assessment of Land Reform programmes	03
Unit 3	Green Revolution strategy and its effects	05
Unit 4	Agriculture in the post-Reform India	01
Module 4	Indian Industry	11
Unit 1	Composition of Indian industry.	02
Unit 2	Evolution of industrial policy in India.	06
Unit 3	Industry in post-Reform India.	03
Module 5	Banking and Finance in India	10
Unit 1	Role of the banking sector in economic development of India.	04
Unit 2	Reforms in the banking sector.	03
Unit 3	Development of capital market in India.	03
Module 6	Indian Public Finance	10
Unit 1	Central and state budgets – revenue and capital accounts, heads of expenditure and	05
	receipt, plan & non-plan expenditures, developmental & non-developmental	
	expenditures, concepts of different deficits.	
Unit 2	Centre-State financial relation.	05
Module 7	India's Balance of Payment	04
Unit 1	Evolution of trade policy in India	02

Suggested readings: Kapila, Uma: Indian Economy: Performance and Policies 2009-10, Academic Foundation Kapila, Uma (ed.): India's Economic Development since 1947, Academic Foundation Misra, S.K & Puri, V.K: Indian Economy, Himalayas Publishing Agarwal, A.N: Indian Economy, Vikas Publishing

Workshop for preparation of B. Sc. (Economics Honours) Syllabus

Panel of Resource Persons

- 1. Prof. Anup K. Sinha, Indian Institute of Management Calcutta
- 2. Prof. Anindya Sen, Indian Institute of Management Calcutta
- 3. Prof. Soumyen Sikdar, Indian Institute of Management Calcutta
- 4. Prof. Sarmila Banerjee, Economics Department, Calcutta University
- 5. Prof. Rajat Acharyya, Economics Department, Jadavpur University
- 6. Prof. Ambar Nath Ghosh, Economics Department, Jadavpur University
- 7. Prof. Ranjanendra Narayan Nag, Economics Department, St. Xaviers College
- 8. Prof Mallinath Mukherjee, Economics Department, St. Xaviers College