

**NATIONAL COLLEGE (AUTONOMOUS), TIRUCHIRAPALLI – 1**

**M.A., ECONOMICS – Course Structure under CBCS**

**(Applicable to the candidates admitted from the academic year 2013-2014 onwards)**

Semester	Paper No.	Title of the Paper	Instr Hrs/ Week	Credit	Exam Hrs.	Marks			Total
						Internal	External		
							<b>W</b>	<b>O</b>	
I	<b>CC I</b>	Micro Economic Theory I	6	5	3	25	75		100
	<b>CC II</b>	Macro & Monetary Economics I	6	5	3	25	75		100
	<b>CC III</b>	Mathematical Methods for Economic Analysis	6	5	3	25	75		100
	<b>CC IV</b>	Public Finance	6	5	4	25	70	5	100
	<b>EC I</b>	Financial Economics	6	4	3	25	75		100
		<b>Total</b>	<b>30</b>	<b>24</b>					<b>500</b>
II	<b>CC V</b>	Micro Economic Theory II	6	5	3	25	75		100
	<b>CC VI</b>	Macro & Monetary Economics II	6	5	3	25	75		100
	<b>CC VII</b>	Statistics	6	5	3	25	75		100
	<b>CC VIII</b>	International Economics	6	5	4	25	70	5	100
	<b>EC II</b>	Labour Economics & Industrial Relations	6	4	3	25	75		100
		<b>Total</b>	<b>30</b>	<b>24</b>					<b>500</b>
III	<b>CC IX</b>	Research Methodology	6	5	3	25	75		100
	<b>CC X</b>	International Economics	6	5	3	25	75		100
	<b>CC XI</b>	Industrial Economics	6	5	4	25	70	5	100
	<b>EC III</b>	Computer Applications in Economics	6	4	3	25	75		100
	<b>EC IV</b>	Project Appraisal	6	4	3	25	75		100
		<b>Total</b>	<b>30</b>	<b>23</b>					<b>500</b>
IV	<b>CC XII</b>	Economics of Development	6	5	3	25	75		100
	<b>CC XIII</b>	Environmental Economics	6	5	4	25	70	5	100
	<b>EC V</b>	Management Information System	6	4	3	25	75		100
		<b>Project (Dissertation 75 marks &amp; Viva Voice – 25 Marks)</b>	<b>12</b>	<b>5</b>	<b>-</b>	<b>75</b>	<b>-</b>	<b>25</b>	<b>100</b>
		<b>Total</b>	<b>30</b>	<b>19</b>					<b>400</b>
				<b>90</b>					<b>1900</b>

There will be oral test for all practical examinations. The oral test will carry 5 marks in the external component.

## **CORE COURSE I : MICRO ECONOMIC THEORY I – P13EC1**

**Semester : I**

**Core Course: I**

**Instruction Hours/Week: 6**

**Credit: 5**

### **UNIT I: DEMAND ANALYSIS**

Law of diminishing marginal utility -law of demand- Demand schedule – Indifference curve theory – Neumann-Morgenstern Theory – Hicks Revision of demand theory – Revealed Preference Theory – Supply curve.

### **UNIT II: PRODUCTION AND COST**

Production-define production – Homogeneous production function – Law of variable proportions – Cobb-Douglas Production function – Iso-quants- Properties – MRTS – Producer's equilibrium – Expansion path – Equal Product Curves.

### **UNIT III: PRICE OUTPUT DETERMINATION**

Perfect competition – Conditions – Short run long run equilibrium – Monopolistic competition – Equilibrium of the firm – objectives – Monopoly – Price determination – Controlling measures – Selling cost – Difference between perfect competition and Monopolistic Competition – Profit Maximization – Cost and Revenue analysis.

### **UNIT IV: DUOPOLY MODELS**

Characteristic features of Oligopoly – Types of oligopoly – Duopoly – Definition – Conditions – Price determination – Cournot model of Duopoly – Kinked demand curve – Monopsony features - models of Duopoly.

### **UNIT V: ALTERNATIVE THEORIES OF FIRM**

Modern theories of firm – Williamson's model of marginal discretion, Cyert & March theory – Marris Model – Bain's limit pricing theory – Baumol's sales maximization.

### **Books for reference:**

1. Ramesh Chandra Das (2011), Micro Economics, Theory and Practice, Kunal Books – Publisher & Distributors, New Delhi – 110 002.
2. Koutsayannis A, (1979) Modern Micro Economics
3. Baumol W J (1982) Economic theory and operation analysis
4. H. L. Ahuja (2006) Advanced Economic Theory, S.Chand & Company Ltd, New Delhi – 110 055.
5. G. Stigler (1996) Theory of Price.

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## **CORE COURSE II : MACRO AND MONETARY ECONOMICS I – P13EC2**

**Semester : I**

**Core Course: II**

**Instruction Hours/Week: 6**

**Credit: 5**

### **UNIT I: National Income and Sector Accounts**

National Income and National Product: Concepts, National Income and National Product in a simple Market economy – Sector Accounts: Personal, Business, Government and Rest of the World Sectors –Social Accounting – Input-Output Accounting – Flow of funds Accounts.

### **UNIT II: Consumption Function**

Income-Consumption Relationship: Classical and Keynesian Views – Post-Keynesian Developments – Reconciliation of Short-Period and Long-Period Consumption functions: Relative Income, Permanent Income and Life-Cycle hypotheses.

### **UNIT III: Money Supply**

Money supply: Composition of Money supply, Money supply function, Inside and Outside money (Gurely and Shaw), RBI's approach to money supply - High-powered money and money multiplier – Financial Intermediation: Process of intermediation, Role of Financial intermediaries.

### **UNIT IV: Demand for Money**

Classical approach to demand for money – Classical Dichotomy - Keynesian approach: Liquidity preference – Post-Keynesian Development: Patinkin and the Real balance effect, Boumol's approach, Tobin's theory, Friedman's Quantity theory.

### **UNIT V: Neo-Keynesian Synthesis and New Classical Macro Economics**

Keynesian views on interest -IS-LM Model – Relative ineffectiveness of monetary and fiscal policies – Monetary and Fiscal Mix - New Classical Macro Economics, Policy implications of New Classical Macro Economics.

### **Basic Reading List**

1. Ackley, G(1978), Macro Economics: Theory and Policy, Macmillian, New York.
2. Gupta R.D, Keynesian and Post-Keynesian Economics, Kalyani Publishers, Ludhiana.
3. Hajela, T. N.,(2009), Money and Banking:Theory with Indian Banking, AneBooks Pvt. Ltd., New Delhi.

4. Jhingan M.L. (2003), Macro Economic Theory, Vrinda publications (P) Ltd.,Delhi. Rana K.C. and Verma K.N , Macro Economic Analysis, Vishal Publication, Jalandhar.
5. Shapiro, E (1996), Macroeconomic Analysis, Galgotia Publicationm New Delhi.
6. Vaish M.C, Macro Economics Theory,Wishwa Prakashan, New Delhi.

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### **CORE COURSE III : MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS – P13EC3**

**Semester : I**

**Core Course: III**

**Instruction Hours/Week: 6**

**Credit: 5**

#### **UNIT I: Terminology, Concepts and tools**

Constants, variables, parameters, intercepts Coefficients – Functions: inverse, general and specific functions – Equations – Applications - Demand and supply functions - Cost and revenue functions - Consumption function - IS & LM functions -Multivariable functions - Market equilibria.

#### **UNIT II: Differential Calculus**

Rules of differentiation - higher order derivatives - partial derivatives - Young's Theorem - unconstrained optimization - Use of derivatives in economics – Maximization, minimization, elasticities, Utility function, production function – revenue, cost and profit functions (simple problems).

#### **UNIT III: Integration**

Concept-simple rules of integration-application to Consumer's surplus & producer's surplus - Costs & revenues.

#### **UNIT IV: Matrices**

Fundamentals of linear algebra - matrix, solving equations - Crammer's rule - Uses - Input-output analysis – Open and closed models.

#### **UNIT V: Linear Programming**

Basic Concepts, formulation of an LP problem - feasible, basic and optimal solution - graphic and simplex methods - formulation of the dual of a programme and its interpretation - Applications of LP technique.

#### **Book for study:**

Metha and Madnani (2012), Mathematics for Economists, Sultan Chand & Sons, New Delhi.

**Reference Books:**

1. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
2. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi
3. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
4. Salvatore, Dominick (1992), Mathematics for Economists, Schaum Series.

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**CORE COURSE IV: PUBLIC FINANCE – P13EC4**

**Semester : I**

**Core Course: IV**

**Instruction Hours/Week: 6**

**Credit: 5**

**UNIT I: Theory of public goods and public choice**

The economic role of government – Allocation, growth and stabilization – Private goods, public goods and merit goods: market failure – Imperfections, decreasing costs, externalities, public goods: Uncertainty and non – existence of futures markets: Informational asymmetry – Theory of second best – Arrow’s impossibility theorem.

**UNIT II: Public Expenditure**

Wagner’s law of increasing state activities: Wisemen – Peacock hypothesis: Pure theory of public expenditure: Structure and growth of public expenditure: Criteria for public investment: Social cost – Benefit analysis – Project Evaluation, estimation of costs, discount rate.

**UNIT III: Taxation and Public debt:**

Theory of incidence – Alternative concepts on incidence – Allocative and equity aspects of individual taxes – Benefit and ability to pay approaches – Theory of optimal taxation – Excess burden of taxes- Trade off between equity and efficiency – Laffer curve – Theory of measurement of debt weight losses – The problem of double taxation.

**UNIT IV: Fiscal policy:**

Objectives of fiscal policy – Full employment – anti inflation – economic growth – redistribution of income and wealth – interdependence of fiscal and monetary policies – Budgetary deficit and its implications – fiscal policy for stabilization – automatic Vs discretionary stabilization – alternative measures of resource mobilization and their impact on growth – distribution and prices.

## **UNIT V: Fiscal Federalism**

Fiscal federalism in India – Vertical and horizontal imbalance – Assignment of function and sources of revenue – Constitutional provisions – Finance commission and planning commission – Devolution of resources and grants – Theory of grants resource transfer from union to states – Criteria for transfer of resources – Centre State financial relations in India.

### **Reference:**

1. Atkinson, A.B and J.E.Sinlitz (1980), Lectures on public economics, Tata McGraw Hill, New York.
2. Goode, R, (1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
3. Jha, R (1998), Modern Public Economics, Routledge, London.
4. Menutt, P. (1996), The Economics of Public Choice, Edward Elgar, U.K.

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## **ELECTIVE COURSE I - FINANCIAL ECONOMICS – P13EC5E**

**Semester : I**

**Elective Course: I**

**Instruction Hours/Week: 6**

**Credit: 4**

### **UNIT I: INTRODUCTION TO FINANCIAL ECONOMICS**

Objectives – functions – scope – evolution – Corporate finance – definition and scope – finance function – scope of finance function – classification and description of finance function

### **UNIT II: TIME VALUE OF MONEY AND ITS CALCULATIONS**

Future value of single cash flow, multiple cash flow, annuity – Present value of single cash flow, multiple cash flow, annuity, annuity dues, perpetuities – Techniques of Time value of money – Compounding Technique – Discounting Technique

### **UNIT III: SOURCES OF LONG TERM FINANCE**

Equity shares – Preference shares – Debentures or Bonds – Term loans – Retained earnings

### **UNIT IV: WORKING CAPITAL MANAGEMENT**

Meaning, Types & objects of working capital – Advantages of working capital – sources of working capital – Determinants and estimates of working capital requirements

## **UNIT V: INVENTORY MANAGEMENT**

Meaning and kinds of inventories, need, risk and cost of holding inventories – management of inventories – objectives of inventory management – tools and techniques of inventory management

### **REFERENCE BOOKS:**

[www.wikipedia.org](http://www.wikipedia.org) and [www.google.org](http://www.google.org)

1. Prasanna Chandra, 2001, Financial Management: Theory and Practice
2. DR. R. Ramachandran & Dr. R. Srinivasan, Financial Management Theory, Problems and Solutions, Sriram publications, 1-G Kalyanpuram, Tennur, Tiruchi – 620 017.
3. S. C. Kuchhal, Corporation Finance – Principles and problems, Chaitanya Publishing House, University Road, Allahabad.

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## **CORE COURSE V: MICRO ECONOMIC THEORY II – P13EC6**

**Semester : II**

**Core Course: V**

**Instruction Hours/Week: 6**

**Credit: 5**

### **UNIT I: DISTRIBUTION**

Marginal Productivity theory – Theories of interest, Theories of Rent – Macro theories of distribution – Ricardian, Marxian and Kaldor's.

### **UNIT II: GENERAL EQUILIBRIUM**

Partial and general equilibrium – Two sector model production without consumption – Relationship between relative commodity and factor prices and pricing of factors

### **UNIT III: WELFARE ECONOMICS**

Pigouvian welfare economics – social welfare – function = conditions of Pareto optimality – social indifference curve – Kaldor Hicks welfare criterion – Schitovsky's paradox – Arrow's impossibility theorem.

### **UNIT IV: ECONOMICS OF UNCERTAINTY**

Individual behaviour – Risk takers – Risk averters – Gambling and Insurance – Economics of Insurance.

### **UNIT V: COMPETITIVE FIRM UNDER UNCERTAINTY**

Factor demand under price uncertainty – economic of searcher – Efficient market hypothesis – Market with incomplete information – Market demand, short run, long run long run analysis.

**Books for reference:**

1. Ramesh Chandra Das (2011), Micro Economics, Theory and Practice, Kunal Books – Publisher & Distributors, New Delhi – 110 002.
2. Koutsayannis A, (1979) Modern Micro Economics
3. Baumol W J (1982) Economic theory and operation analysis
4. H. L. Ahuja (2006) Advanced Economic Theory, S.Chand & Company Ltd, New Delhi – 110 055.
5. G. Stigler (1996) Theory of Price.

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**CORE COURSE VI: MACRO AND MONETARY ECONOMICS II – P13EC7**

**Semester : II**

**Core Course: VI**

**Instruction Hours/Week: 6**

**Credit: 5**

**UNIT I: Measurement of changes in the value of money**

Effects on production and employment, effects on redistribution of incomes, Measurement of changes in the value of money, Methods of preparing index numbers, Weighted index numbers, Difficulties in the construction of index numbers, Advantages of Index numbers.

**UNIT II: Inflation, Deflation and Reflation**

Causative factors of inflation: Demand-pull and Cost-push, Effects of inflation, Measures to control inflation – Deflation: Causes of deflation, Effects of deflation, Control of deflation – Which is Good: Inflation or Deflation – Reflation and Disinflation.

**UNIT III: Philips curve and Stagflation**

Phillips curve: Lipsey's analysis of Phillips curve, Policy implications, Criticism – Stagflation: Principal causes, measures to control stagflation, Friedman-Phelp's model.

**UNIT IV: Monetary Policy**

Objectives of Monetary policy – Targets and Indicators of Monetary policy – Expansionary and Restrictive monetary policy – Monetary policy of Reserve bank of India.

**UNIT V: Monetary management in an open economy**

International capital markets, portfolio diversification, the international monetary system - Monetary policy in India's open economy, financial sector reforms in India - The Narasimham Committee Report.



### **Basic Reading List**

1. Ackley, G(1978), Macro Economics: Theory and Policy, Macmillian, New York.
2. Gupta R.D, Keynesian and Post-Keynesian Economics, Kalyani Pubishers, Ludhiana.
3. Hajela, T. N.,(2009), Money and Banking:Theory with Indian Banking, AneBooks Pvt. Ltd., New Delhi.
4. Jhingan M.L. (2003), Macro Economic Theory, Vrinda publications 9P) Ltd.,Delhi.
5. Rana K.C. and Verma K.N , Macro Economic Analysis, Vishal Publication, Jalandhar.
6. Shapiro, E (1996), Macroeconomic Analysis, Galgotia Publicationm New Delhi.
7. Vaish M.C, Macro Economics Theory,Wishwa Prakashan, New Delhi.

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### **Core Course -VII : STATISTICAL METHODS FOR ECONOMIC ANALYSIS – P13EC8**

**Semester : II**

**Core Course: VII**

**Instruction Hours/Week: 6**

**Credit: 5**

#### **UNIT I: Univariate Analysis**

Measures of Central tendency, dispersion - standard deviation, coefficient of variation, Lorenz curve, Gini concentration ratio - Skewness ( simple problems).

#### **UNIT II: Regression Analysis**

Correlation (Concept only), Regression: Two variable case, Multiple Regression (Three variable case - simple problems) - OLS assumptions - violation of assumptions - heteroscedasticity, autocorrelation and multicollinearity (concepts only) - Interpretation of coefficients - Introduction non-linear regression.

#### **UNIT III: Probability and distribution**

Probability theory: Concepts, Binomial, Poisson and Normal distributions.

#### **UNIT IV: Sampling distributions**

Sampling distribution, standard error-testing of hypothesis: <sup>2</sup> F-ANOVA, testing correlation and regression coefficients.

#### **UNIT V: Index numbers and Time series**

Uses, selection number of items, base year price relatives - Fisher's ideal index - Factor reversal test - Time reversal test - Chain index-base shifting - Conversion of current price data into constant price data - price index numbers in India - components of time series - Moving averages - Straight line trend - Deseasonalisation of data - Seasonal Index.

### **Book for Study**

1. Gupta S P, Statistical Methods, Sultan Chand & Co., New Delhi.

### **References:**

1. Speigal, M R (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
2. Chou, Y (1975), Statistics Analysis, Holl-Reinhart and Winston, New York.
3. Salvatore, Dominick., (1982), Statistics and Econometrics, McGraw Hill, New Delhi.

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### **CORE COURSE VIII - INTERNATIONAL ECONOMICS – P13EC9**

**Semester : II**

**Core Course: VIII**

**Instruction Hours/Week: 6**

**Credit: 5**

#### **UNIT I- Introduction to International Economics**

Introduction - The Traditional Theory of International Trade - Heckscher-Ohlin- Model  
- Effects of Tariffs & Quotas - Theory of Factor Movements

#### **UNIT II – WTO and Exchange Rates**

FTA and the WTO - The Balance of Payments - Determinants of Exchange Rates - The Exchange-Rate Regime Choice and a Common Currency Area

#### **UNIT III – International Agencies and Currencies**

International Debt and Currency Crises - The Role of the IMF and other International Financial Organizations – international Liquidity.

#### **UNIT IV – IMF and India**

International Monetary Fund, SDR – Regular facilities, special facilities and concessional facilities – India and IMF – IMF on India's Economic reforms.

#### **UNIT V – Euro Currency and Indian Economy**

Euro currency market – general features of the market – loans and deposits – recent developments and future prospects – major international role – Euro currency market and developing countries.

### **Reference:**

1. Charles P.Kindleberger, International Economics
2. MC.Vaish Sudama Singh, International Economics, Oxford and IBH Publishing company PVT, LTD. New Delhi.

3. WTO, the World Trade Organization.
4. IMF Annual Reports
5. Rana and Varma, International Economics.
6. Francies Cherunilam, International Economics
7. ML.Singhan, International Economics.

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**ELECTIVE COURSE II: - LABOUR ECONOMICS AND INDUSTRIAL RELATIONS – P13EC10E**

**Semester : II**

**Elective Course: II**

**Instruction Hours/Week: 6**

**Credit: 4**

**UNIT I : Economics of Labour: Nature, Scope and Significance**

Economics of Labour, Origin and growth of labour economics, importance of Labour Economics – Meaning, concept and dimensions of Labour Economics.

**UNIT II : Labour as a factor of production**

Labour as a factor of production: meaning of labour, Peculiarities of labour – efficiency of labour – Division of labour – Different types of division of labour –advantages and disadvantages of division of labour – limitations – Classical view of labour.

**UNIT III : Employment and Manpower planning:**

Employment – Problems of unemployment – types – causes and effects – Remedies – Role of employment exchanges in India – Vocational Training – Manpower planning.

**UNIT IV : Social security in India:**

Social Security – ILO and security. Social security- meaning and importance – Social security measures in India – Employees State Insurance Act 1948 – Employees Provident Funds Act 1952 and Public Provident Funds Act 1968 – Subsequent development.

**UNIT V : Trade unions and collective Bargaining**

Meaning, objectives, functions of trade union, development of trade unions in India – Industrial relations – Industrial disputes – workers participation in management – Industrial peace and collective bargaining– The present state of industrial relation in India.

**REFERENCES:**

1. Helfgott, Labour Economics, (New York: Random House 1974)
2. Kamik, V.B., Indian Trade Union: A Survey (Mumbai: Allied Publishers Pvt. Ltd. 1966)
3. McConnell, Capbell R., and Stanley.L.Brue, Contemporary Labour Economucs (Singapore, McGrew-Hill Book Co 1989)
4. Reynolds, Lloyd., Labour Economics and Labour Welfare (New Delhi: Prentice –Hall of India Pvt. LTd. 1978)

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## CORE COURSE IX - RESEARCH METHODOLOGY – P13EC11

Semester : III

Core Course : IX

Instruction Hours/Week: 6

Credit: 5

### UNIT – I

Science – its meaning and characteristics – The meaning of ‘Research’ – Specific features of research in Social Sciences as opposed to Physical and Natural Sciences – Objectivity in research – Basic categories in scientific method – Facts – Concepts – Causality – Uncertainty – Probability.

### UNIT - II

Methods of Research – Deductive and inductive Reasoning – Steps of Scientific Method – Historical Method – Case study – Scaling Techniques – Sample surveys – Various sampling methods – Importance of proper sampling design.

### UNIT – III

Steps in Research – Formulation of a Research problem – Guiding principles in the choice of a research topic – Role of Review of Literature – Formulation of Research Design – Model building – Hypothesis: concept, definition, formulation and testing.

### UNIT – IV

Secondary data – some important sources: NSSO, CSO, Economic Survey, Season & Crop Report, Agricultural Census, Livestock Census, Annual Survey of Industries, RBI Reports, Primary Data collection – Tools – observation, Schedule, questionnaire– Principles underlying construction of a questionnaire – Preparation of master table – Data processing – Analytical Tables.

### UNIT – V

Report writing – Structure and General format – Style – Use of footnotes – citations – Presentation of tables, diagrams, charts and maps – Bibliography.

### Reference:

1. Ghose B.N. Scientific Method and Social Research, New Delhi, Sterling Publishers,1982.
2. Goode, W.J. & Hatt, P.K. Methods in Social Research, New York, McGraw Hill, 1952.
3. C.T. Kurien(ED), A Guide to Research in Economics (Sangam Publishers).
4. Wilson Gee, Social Science Research Methods, (N.Y. Appleton Century Croft, 1950).
5. Pauline. V. Young, Scientific Social Surveys and Research.
6. Karl Popper, The Logic of Scientific Discovery, (Lond. Hutchinson, 1934).
7. T.S. Kuhn, The Structure of Scientific Revolutions,(Chicago, 1962).

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**CORE COURSE X – INTERNATIONAL BUSINESS – P13EC12**

**Semester : III**

**Core Course : X**

**Instruction Hours/Week: 6**

**Credit: 5**

**UNIT I: INTERNATIONAL BUSINESS: AN OVERVIEW**

Introduction- Definition of International Business- Trade and Financial Scenario; changes at macro and micro level.

**UNIT II : INTERNATIONAL BUSINESS THEORIES:**

Introduction- international trade theory- The basis for trade- Sources of comparative advantage- Absolute advantage- comparative advantage- Factor endowments approach- Product Life Cycle Theory- Leontief Paradox.

**UNIT III: ENHANCING GLOBAL COMPETITION:**

Introduction- Competitiveness- Boosting Export Competitiveness- Transnational Corporation Strategic Role in world Trade- the Role of FDI in building Export competitiveness- Policy implications- Growing importance of TNS social responsibility.

**UNIT IV: INTERNATIONAL MONETARY & FINANCIAL SYSTEM:**

Introduction- IMF- its Functions- recent structural changes in the IMF, quotas, conditionality; Special Drawing Rights- Strengthening the International Financial Institutions- New arrangements.

**UNIT V: GLOBAL ENVIRONMENT:**

Introduction- protecting the environment- The impact of FDI on the Environment in the host developing countries- Environmental Management & Clean Technology- The International dimension.

**REFERENCES:**

1. V.K.Bhalla, S.Shiva Ramu, "International Business Environment & Management" Anmol Publications Pvt.Ltd.
2. K.C.Rana, K.N.Verma, "International Economics" Vishal Publishing Company.

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**CORE COURSE XI - INDUSTRIAL ECONOMICS – P13EC13**

**Semester : III**

**Core Course: XI**

**Instruction Hours/Week: 6**

**Credit: 5**

**UNIT I: Patterns and Structure**

Process and pattern of industrialisation – Industrial structure and change – Alternate patterns – Hoffman’s Hypothesis of Market Economies – Simon Kuznets’ Interpretation of secular changes in industrial development – Industrialisation in Planned Economies – Key Role of Capital Goods Sector – HB Chenery’s pattern of industrial change.

**UNIT II: Market Structure**

Sellers’ concentration; Production differentiation; Entry conditions; Economies of scale; Market structure and profitability; Market structure and innovation; Theories of industrial location – Weber, Losch and Sargent Florence; Factors affecting location.

**UNIT III: Industrial Finance**

Owned, external and other components of funds; Role, nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC, commercial banks, etc.; Financial statement – Balance Sheet, Profit and loss account; assessment of financial soundness, ratio analysis.

**UNIT IV: Industrial Labour**

Structure of industrial labour; employment dimensions of Indian industry; industrial legislation; industrial relations; Exit policy and Social security; Wages and problems of bonus – labour market reforms.

**UNIT V: Project Planning and Appraisal**

Cost-benefit analysis – Net Present Value (NPV) and internal rate of return (IRR) criteria –balancing private and social returns.

**References:**

1. Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
2. Cherunilam, F. (1994), Industrial Economics : Indian Perspective (3rd Edition),Himalaya Publishing House, Mumbai.
3. Divine, P.J. and R.M. Jones et.al. (1976), An Introduction to Industrial Economics,George Allen and Unwin Ltd., London.
4. Hay, D. and D.J. Morris (1979), Industrial Economics : Theory and Evidence, Oxford University Press, New Delhi.
5. Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad.
6. Singh, A. and A.N. Sadhu (1988), Industrial Economics, Himalaya Publishing House, Bombay.
7. Mamoria and Mamoria (2000), Dynamics of Industrial Relations in India (15th Edition), Himalaya Pub. House, Mumbai.

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**ELECTIVE COURSE III – COMPUTER APPLICATIONS IN ECONOMICS  
(THEORY ONLY) - P13EC14E**

**Semester : III**

**Elective Course: III**

**Instruction Hours/Week: 6**

**Credit: 4**

**UNIT I:** Introduction to Computers - Evolution, Generations and classification of computers – Hardware and Software – CPU and its functions – Input and Output devices – Application of computers in Economics and Business.

**UNIT II:** Operating Systems - Simple DOS commands – Fundamentals of Windows Operating System.

**UNIT III:** Word Processing - Word basics – formatting text and document – working with headers, footers and footnotes – Tabs, tables and sorting – working with graphics – Templates and wizards – creating macros and menus – mail merge.

**UNIT IV:** Spreadsheets and Statistical Packages - Excel basic – Arranging worksheets – functions – chart and its features – graphics - command macros – worksheet as database – SPSS and its Application: – Correlation, Linear regression, T test: One Sample, paired – ANOVA.

**UNIT V:** World Wide Web - Internet basics – Browsing, Internet using search engines – opening E-mail ID, sending and checking E-mail – downloading text from Internet.

**Basic Reading List**

1. Sanders, D.H. (1988) Computers Today, McGraw Hill (3 rd Edition) New York
2. Sinha, (1992), Computer Fundamentals, BPB Publications, New Delhi
3. Rajaraman, V. (1996), Fundamentals of Computers, (Prentice Hall of India, New Delhi)
4. Lipschutz, M.M. and S. Lipschultz (1982), Theory and Problems of Data Processing, Schaums Outline Series, McGraw Hill, New Delhi.
5. Leon and Leon, Internet Basics
6. www.spss.com and SPSS User Guide.

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**ELECTIVE COURSE IV - PROJECT APPRAISAL – P13EC15E**

**Semester : III**

**Elective Course: IV**

**Instruction Hours/Week: 6**

**Credit: 4**

**UNIT I: INTRODUCTION**

CAPITAL EXPENDITURE – Importance and difficulties – Phases of capital budgeting – objectives – Scouting for project ideas – Preliminary screening

**UNIT II: ASPECTS OF APPRAISAL**

Economic aspects – Technical – Organizational – Managerial – Operational – Financial Aspects

**UNIT III: APPRAISAL CRITERIA**

NON-DISCOUNTING CRITERIA – Urgency – Payback Period – Accounting Rate of Return – Debt Service Coverage Ratio.

DISCOUNTING CRITERIA – Net Present Value – Benefit Cost Ratio – Internal Rate of Return – Annual Capital Charge

**UNIT IV: RISK ANALYSIS**

Types and Measures of risk – Sensitivity Analysis – Scenario Analysis – Decision Tree Analysis

**UNIT V: PROJECT MANAGEMENT**

Forms of project organization – Line and Staff organization – Divisional organization – Matrix organization – Project Planning – Project Control

**REFERENCE BOOKS;**

1. Prasanna Chandra, (1988) Project preparation, Appraisal, Budgeting and Implementation, 3<sup>rd</sup> edition – Tata Mcgraw Hill Publishing Co-Ltd, New Delhi.
2. Vasant Desai (1999), Project Management, Himalaya Publishing House, Mumbai.
3. Bhavesh M Patel, Project Management.

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**CORE COURSE XII : ECONOMICS OF DEVELOPMENT – P13EC16**

**Semester : IV**

**Core Course: XII**

**Instruction Hours/Week: 6**

**Credit: 5**

**UNIT I: Economic Growth and Development**

Introduction: Economic Development and Economic Growth – Economic and Non – Economic Factors – Meaning: Characteristics of Modern Economic Growth, Development Economics in Retrospect.

**UNIT II: Some Theories of Economic Development**

Adam Smith’s Theory – Meade, Kaldor, Harrod – Domar Models of Economic Growth.

**UNIT III: Technology**

The process of Technology – Invention and Innovation – Demand – Increasing and cost reducing innovation – Technical change in Developed Countries – Dissemination of Technology.

**UNIT IV: Domestic Measures for Economic Development**

Meaning and Importance of Human Capital Formation – Problems of Human Capital Formation – Manpower Requirements – Role of Entrepreneur – Factors Impeding the Growth of Entrepreneurship – Promotion of Entrepreneurship.



**UNIT V: International Measures for Economic Development**

Foreign Direct Investment – Foreign Institutional Investors – MNCs in India – Merits and Dmerits of MNCs.

**Books for reference:**

1. M.L.Jhingan, The Economics of Development and Planning –, Konark Publication Pvt. Ltd.
2. Kindleberger, Economic Development --- International Student Edition McGraw Hill Publishing Co-Ltd, New Delhi.
3. V.K.Bhalla S.Shiva Ramu, International Business Environment and Management, Anmal Publications Pvt. Ltd.

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**CORE COURSE XIII – ENVIRONMENTAL ECONOMICS – P13EC17**

**Semester : IV**

**Core Course: XIII**

**Instruction Hours/Week: 6**

**Credit: 5**

**UNIT I: Concepts**

Environment – Eco-system – Nexus between Economics and Environment – The principle of material balance – Private versus Social Cost – Entropy – Ecological balance – Sustainable development – Externalities.

**UNIT II: Environmental Issues**

Environmental quality – Non-marketed goods – Regulatory – Command and Control Method – Environmentalism – Trade off between Environmental Protection and Economic Growth – Institutional Approach to Environmental Problems – Environmental Education.

**UNIT III: Measurement of Environmental Values**

User values: Option values and non-use values; Valuation methods – Methods based on observed market behaviour; Hedonic property values and household production models (travel cost methods and household health production function), Methods based on response to hypothetical markets contingent valuation methods.

**UNIT IV: Environment and Society**

Pollution and Environment – Impact of population growth (Trends, Sex ratio, Rural and Urban) on environment – Urbanisation and environment – Poverty and Environment – Culture and Environment – People Participation in Environmental movement.

**UNIT V: Policy**

Ministry of Environment and Forest – Water Pollution and Prevention Control Act 1974 – Air Pollution and Prevention Control Act 1981 – Comprehensive Environment Bill 1986 – Policy thrust – WTO and Environment

**Reference:**

1. Agarwal S.K. (1997) "Environmental Issues and Themes", APH Publishing Corporation, Ansari Road, New Delhi
2. Pravin Sheth (1997), "Environmentalism Policies, Ecology and Development", Rawat Publications, Jaipur and New Delhi
3. Pashupathi Nath and Siddha Nath (1990), "Environmental Pollution Conservation and Planning" Chugu Publication, Alahabad, India.
4. Bromley, D.W. (Ed.) (1995)"Handbook of Environmental Economics" Cambridge University Press Cambridge
5. Fisher, AC (1981), "Resource and Environmental Economics" Cambridge University Press Cambridge
6. Hanley, N.J.F., Shorgen and B. White (197), "Environmental Economics in Theory and Practice", Macmillan.
7. Hussen, A.M. (1999), "Principles of Environmental Economics", Routledge, London.
8. Kolstad, C.D. (1999), "Environmental Economics", Oxford University Press, New Delhi
9. Sankar,U. (Ed.) (2001), "Environmental Economics", Oxford University Press, New Delhi
10. Rabindra N. Battacharya (2001), "Environmental Economics", (Ed.), Oxford University Press, New Delhi.
11. Google.com. and Wikipedia.com.

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**ELECTIVE COURSE – IV: MANAGEMENT INFORMATION SYSTEM - P13EC18E**

**Semester : IV**

**Elective Course: IV**

**Instruction Hours/Week: 6**

**Credit: 4**

**UNIT I: MANAGEMENT INFORMATION SYSTEMS - A FRAME WORK**

MIS Functions – Characteristics of MIS – Benefits of MIS – Limitations of MIS – Problems in implementing MIS - MIS Department in an organization – Role of Top Management – Components of MIS

**UNIT II: STRUCTURE AND CLASSIFICATION OF MIS**

STRUCTURE OF MIS – Physical components – Information system processing functions – Decision support – Levels of management activities – Organisational functions  
CLASSIFICATION OF MIS – Operations support systems – Management support systems – General support systems

**UNIT III: DATABASE MANAGEMENT SYSTEM**

Introduction – database – database management system – difference between file approach and database approach – advantages of using DBMS – Fundamental concepts of DBMS – database languages and interfaces – database trends – data warehousing – data mining

**UNIT IV: DECISION SUPPORT SYSTEMS AND EXPERT SYSTEMS**

Introduction – DSS overview – Definition of DSS – EDP, MIS and DSS – Artificial Intelligence – Robotics

**UNIT V: IS SECURITY AND CONTROL**

Introduction - The 4R of information security and risks – Threats and vulnerability management – Security controls and Identity Management – Physical security

**REFERENCE BOOKS:**

1. NIRMALYA BAGCHI (2010 & 11), MANAGEMENT INFORMATION SYSTEMS, Vikas Publishing House Pvt. Ltd.
2. GOYAL D P, (2010), MANAGEMENT INFORMATION SYSTEMS – Managerial Perspectives, Macmillan Publishers India Ltd.

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**PROJECT WORK - P13ECP19**

**Semester : IV**  
**Instruction Hours/Week: 12**

**Project**  
**Credit: 5**

**PROJECT WORK**

**(Dissertation 75 marks & Viva Voice – 25 Marks)**

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National College - [NCT], Tiruchirappalli. Tiruchirappalli, Tamil Nadu. Estd 1919. BU, Tiruchirappalli. Public (Autonomous). NAAC Grade A+. Ranked for Overall by NIRF 2020. Like other colleges, National College also has a Training and Placement cell where the students are groomed through programs that offer various services to meet the professional development needs of students. The final year students are provided the following pieces of training: Basic Communication Skills Training. When the college was declared autonomous? Ans. The College was declared autonomous in 2010 by The University Grants Commission, New Delhi. The College was Re-accredited by National Assessment and Accreditation Council (NAAC) at A Grade in 2011. Ques. Holy Cross College (Autonomous) Tiruchirappalli is a highly reputed Arts and Science College for Women in the state of Tamil Nadu. Situated at the heart of The Rock City on the banks of the River Cauvery, Holy Cross College has a unique history of academic excellence. It is a Catholic Institution established in 1923 when higher education for women was considered almost a transgression. It was accredited by National Assessment and Accreditation Council (NAAC) in 1999 with 5 stars and re-accredited in 2005 with A grade and in 2012(3rd Cycle) with A Grade in 2020(4th Cycle) with A++ with CGPA Score of 3.75 on a 4.0 Scale by NAAC. The college was recognised by UGC as College with Potential for Excellence in October 2011 and the CPE status has been extended till 2022. About National College. The College has also been conferred with the rare distinction of College with Potential for Excellence status. The college continues its march to the centenary year with relentless vigor, keeping its mission and vision clear. National College Instrumentation Facility (NCIF) with Scanning Electron Microscope, Flow Cytometer, HPLC, GC-MS, AAS, Micro Hardness Tester, Fluorescence Spectrophotometer. wi-fi enabled with extensive high-speed internet access. Indoor stadium with basket ball and badminton courts. Special Heritage Status Awarded by UGC. The only Heritage College in TamilNadu. 175th Year of Educational Excellence. in the field of Higher Education. College with Potential for Excellence by UGC. DBT-STAR & DST-FIST Sponsored College. The proud product of St. Joseph's College. Bharat Ratna Dr.A.P.J.Abdul Kalam. 28th Rank in NIRF. National College, Tiruchirappalli, Tiruchchirappalli. 228 likes 7 talking about this 7,089 were here. The National College is an institution for... Mohamed Jaabir is with Raghunathan Kalamegam and Prasanna Balaji at National College, Tiruchirappalli. 13 April at 08:50 Tiruchchirappalli, India. The general belief of the public right now is this 1. People think that PCR or COVID-19 Diagnosis is some Rocket Science and that we don't have such sophisticated facilities in the state in good numbers to enable quick diagnosis.