

Economics (Compulsory) Paper I.I
Contemporary Indian Economy
Paper I

The Curriculum for the TYBA (Economics) course.

(Finalised and adopted by the Board of Studies in Economics on 20th December 2006)

T.Y.B.A. Group A (For three units and six units Economics Theory students)

Compulsory Six papers:

Paper 1.1 & 1.2: Contemporary Indian Economy I & II

Paper 2.1 & 2.2: International Trade and Finance I & II

Paper 3.1 & 3.2: Public Finance I & II

Group B (For six Units students)

Compulsory Two papers:

Paper 4.1 & 4.2: Quantitative Methods for Economics I & II

OR

Paper 5.1 & 5.2: Research Methodology in Economics I & II

OR

Paper 6.1 & 6.2: Computer Applications for Economics I & II

Optional Papers (Any Two Sets (Four Papers) from the following):

Paper 7.1 & 7.2: Introduction to Econometrics I & II

Paper 8.1 & 8.2: Environmental Economics I & II

Paper 9.1 & 9.2: Growth and Development I & II

Paper 10.1 & 10.2: Financial Economics I & II

1. Development Indicators of the Indian Economy: Income and Non-income indices; GDP, Standard of Living, Foreign Trade; Quality of life, Human Development Index (International, National and State level); Competitiveness; Regional Characteristics (of Income Distribution and Poverty); Interrelationship between Poverty, Inequality and Unemployment. (15 lectures)
2. Composition of GDP: Sector-wise Composition of India's GDP: Composition of GDP on the eve of Independence: Impact of Planned Development on the Composition and Growth of GDP prior to the Structural Adjustment Programme of 1991. Composition and Growth of GDP since the Structural Adjustment Programme of 1991. (20 lectures)
3. Population: Population Size and Growth Rates; Structural Distribution; Quality of Workforce and Unemployment; Brain Drain; Population Policy: Challenges; Problems; Opportunities. (15 lectures)
4. Goan Economy: Population and Labour Supply; Per capita income; Banking, Capital Formation and the Role of Remittances; Structure and Performance of the Goan Economy: Agriculture (including Fisheries), Industry (including Mining), Service Sector (including Tourism), Infrastructure, State Public Finance. (25 lectures)

Economics (Compulsory) Paper I.II
Contemporary Indian Economy
Paper II

1. Agriculture: Importance of Agriculture. Agricultural development: Brief Review of Performance of the Agricultural Sector under the Five Year Plans prior to the Structural Adjustment Programme of 1991. Role of Technology; Prices; Finance; Subsidies and Land Reforms. Agricultural Marketing; Buffer Stocks; Agriculture since 1991; WTO Agreements on Agriculture; Challenges of Indian Agriculture. (20 lectures)
2. Industries: Role of Industries in Economic Development; Structure of Indian Industry; Industrial Policy; Role of Import Substitution and Export Promotion; Brief Review of Performance of the Industrial Sector under the Five Year Plans prior to the Structural Adjustment Programme of 1991; Performance of Industry since 1991. Challenges due to Liberalisation and Globalisation. Sources and Problems of Industrial Finance. Industrial Relations. (25 lectures)

3. **Infrastructure:** Role of Infrastructure in Economic Development; Types of Infrastructure: Transport and Communication, Energy, Warehousing, Education, Health Care; Performance under Five Year Plans; Private Initiative and Investment in Infrastructure. (20 lectures)
4. **Banking and Finance:** Growth and Structural Changes in Indian Banking prior to 1991. Banking Sector reforms and changes in Indian Banking since 1991. Prudential Norms; Market Discipline; Benchmarking the Indian Banking System by International Standards; Indian Capital Markets. (10 lectures)

Note: Studies in this paper should be focused at providing an understanding of the opportunities emerging in the Indian economy rather than discussing only the problems. The discussions should be centred on the current state of affairs and on future possibilities. For this purpose the students are required to venture out on study tours with the focused objective of studying the Contemporary Indian Economy. This will form the essential part of the curriculum.

References:

- Agrawal A N: Indian Economy: Problems of Development and Planning, Wishwa Prakashan, New Delhi. Latest Edition
- Ahluwalia, I.J. & I.M.D. Little (1998) India's Economic Reforms & Development: Essays for Manmohan Singh, Oxford University Press, Delhi.
- CME's Updates on the Indian Economy.
- Dreze, Jean and Sen, Amartya (1996) Indian Economic Development and Social Opportunity, Oxford University Press, Delhi
- Dutt R and Sundaram K P M: Indian Economy, S. Chand and Company, New Delhi. Latest Edition
- Ghosh A: Indian Economy, World Press, Calcutta. Latest Edition
- Indian Economy Documents Library – CD (Economica India Infoservices) © 2000-2001.
- Kapila, Raj and Kapila, Uma (2001) India's Economy in the 21st Century: Collection of Select Articles, Academic Foundation, Ghaziabad.
- Mishra S K and Puri V K: Indian Economy, Himalaya Publishing Co., Mumbai. Latest Edition.
- Patel, I.G. (1998) Economic Reforms and Global Change, Macmillan, Delhi.
- Rangarajan, C. (1998) Indian Economy: Essays on Money and Finance, UBSPD, New Delhi.
- Sharif, Abusaleh (1999) Indian Human Development Report: A Profile of Indian States in the 1990s, NCAER, Oxford University Press, Delhi.
- Tandon B.B. and Tandon K.K.: Indian Economy, Tata McGraw Hill, New Delhi. Latest Edition

T.Y.B.A. Economics (Compulsory) Paper II.I
International Trade and Finance
Paper I

1. **Composition of Trade:** Composition and Growth of International Trade; Trade in Goods and Services. India's Foreign Trade: Composition, Growth Rates and Trend. Globalisation of Trade; Factors contributing towards Globalisation of Trade. (10 lectures)
2. **Specialisation and Trade:** Comparative Advantage Doctrine; Theory of Reciprocal Demand and the Terms of Trade; Factors affecting Reciprocal Demand and the Terms of Trade. Different Terms of Trade Indexes. Terms of Trade of Developing Countries: Prebisch-Singer Thesis. India's Terms of Trade. (21 lectures)
3. **Factor Endowments and Other Trade Theories:** Factor Endowments Model; Factor-price Equalisation Theorem; Changes in Factor Supplies; Factor Substitution; Factor Intensity Reversal; Leontief Paradox. Contemporary Trade Theories: Trade based on Economies of Scale; Differentiated Products; Technological Gaps; Product Cycles; Differences in Tastes. (21 lectures)
4. **Commercial Policies:** Protectionism v/s. Free Trade. Trade Barriers: Tariffs; Effects; Optimum Tariffs. Non-tariff Barriers: Quotas; Effects; Import and Export Quotas. Other Trade Barriers: Dumping; Voluntary Export Restraints; Voluntary Import Enhancements; Technical, Administrative and Other Regulations; Export Subsidies; Exchange Controls; Dual Exchange Rates. New Forms of Trade Barriers: Discriminatory Procurement, Eco Labelling; Counter trade. International Cartels. Commercial Policy in India. (23 lectures)

T.Y.B.A. Economics (Compulsory) Paper II.II
International Trade and Finance
Paper II

1. **Economic Integration and Free Trade:** Forms of Economic Integration; Effects; Trading Blocks: (EU, NAFTA, SAFTA); Agreements with WTO; WTO and Liberal Trade. (10 lectures)
2. **Global Resource Movements:** Factors affecting International Capital Flows; Remittances, Borrowings, Portfolio Investment and Foreign Direct Investment; Welfare effects of International Capital Flows; Migration of Human Capital; Welfare Effects of Brain Drain; Transnational Corporations. (18 lectures)
3. **Foreign Exchange Rates and Exchange Market:** Theories of Exchange Rate Determination; Fixed and Flexible Exchange Rates; Managed Float; Liberalised Exchange Rate Management System. Composition of Foreign

- Exchange Market; Hedging and Exchange Rate Risk Management; Spot and Forward Exchange Rates; Futures and other Exchange Rate Derivatives. Currency Convertibility. (20 lectures)
4. Balance of Payments: Balance and Equilibrium in Balance of Payments; Types, Causes and Consequences of Disequilibrium; Control and Corrective Methods; Structural Adjustment Measures: Exchange Rate Changes, Monetary and Fiscal Measures. India's Balance of Payments. (15 lectures)
 5. International Institutions: IMF, IBRD, WTO: Importance, Functions, Evaluation of Contributions. India and International Institutions. (12 lectures)

References:

- Bhagwati, J (Ed.) (1981): International Trade: Selected Readings, Cambridge University Press, Massachusetts.
- Bijlani, Hiru (1994): Globalization: An Overview, Heinman Asia, Singapore.
- Carbaugh, Robert J. (2000): International Economics, South Western Publishers, Chinchinati Ohio
- Chacholiades, M. (1990): International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.
- Dana, M.S. (2000): International Economics: Study Guide and Work Book, Routledge Publishers, London.
- Dasgupta, Biplab (1998) Structural Adjustment, Global Trade and the New Political Economy of Development, Vistaar Publications, New Delhi.
- Husted, Stevan and Melvin Michel (1999): International Economics, Addison Wesley Publishers.
- Kenen, P.B. (1994): The International Economy, Cambridge University Press, London.
- King, P.G. (1995): International Economics and International Economic Policy: A Reader, McGraw Hill International, Singapore.
- Krugman, P.R. and Obstfeld, M. (1994): International Economics: Theory and Policy, Glenview, Foresman.
- Salvatore D.(1990): International Economics, Macmillan, New York
- Sodersten, Bo and Reed, Geoffrey (1994): International Economics, Macmillan, London.

T.Y.B.A. Economics (Compulsory) Paper III.I

**Public Finance
Paper I**

1. Nature and Scope of Public Finance: Meaning and Scope of Public Finance; Private and Public Finance; Public and Private Goods; Merit Goods; Market Failure and the Role of Public Sector; Government Failure; Principle of Maximum Social Advantage. (10 lectures)

2. Budgeting Techniques: Program Budgeting; Economic Analysis of Program Budgeting; Incremental Budgeting and Zero-base Budgeting. (15 lectures)
3. Fiscal Policy: Objectives & Conflicts in Objectives of Fiscal Policy; Functional Finance. Tools of Fiscal Policy; Discretionary and Non-Discretionary Fiscal Policy (Built-in-Stabilizers). Keynesian and Supply Side Fiscal Policy. Fiscal Policy in India. (15 lectures)
4. Budgetary Process: Budget: Characteristics of the Budgetary Process, Preparation and Passing of Budget in India, Components of a Budget (Revenue and Capital Account); Balanced and Unbalanced Budgets (Surplus and Deficit); Types of Deficits (Revenue, Fiscal, Primary and Budget Deficits; Gross & Net); Effects of Deficits. Budget as an instrument of Economic Policy; Budgetary Reforms. (20 lectures)
5. Fiscal Federalism in India. Centre State Financial Relations; Sharing of Resources between Centre, State and Local Government; Role of Planning Commission and Finance Commission in Resource Allocation. (15 lectures)

T.Y.B.A. Economics (Compulsory) Paper III.II

**Public Finance
Paper II**

1. Public Expenditure: Trends and Types in the Public Expenditure; Explanation in Growth of Public Expenditure in India; Objectives and Cannons of Public Expenditures; Effects of Public Expenditure. Pump-priming and Compensatory Spending during Depression. Cost-Benefit Approach to Public Expenditure. (15 lectures)
2. Revenue Generation: Ability-to-Pay Principle; Benefit Principle. Sources of Public Revenue: Tax and Non-Tax Revenue; Relative Importance of Tax and Non-Tax Revenue. (10 lectures)
3. Taxation: Cannons of Taxation; Progressive and Non-progressive Taxes; Direct and Indirect Taxes. Structure of Tax Rates; Tax Rates and Tax Yield: The Laffer Curve.Tax Burden; Shifting and the Incidence of Taxes; Effects of Taxes on Production and Distribution; Relative Importance of Direct and Indirect Taxes. (15 lectures)
4. Indian Tax System: Central and State Taxes; Direct Taxes: Income tax, Corporate Tax, Wealth Tax, Capital Gains Tax, Inheritance Tax, Expenditure Tax; Indirect Taxes: Excise Tax, Customs Duties, Sales Tax, Entertainment Tax, Service Tax, Octroi, Value Added Tax. Tax Reforms in India. (20 lectures)
5. Public Debt: Nature and Role; Internal and External Debt; Burden and Debt Servicing Problem: Methods of Debt Redemption; Size and Growth of Public Debt in India; Debt Management. (15 lectures)

References:

- Buchanan, J. (1967) Public Finance and Democratic Process, University of North Carolina Press, Chapel Hill.
- Goode, R (1986): Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
- Hockley, Graham C.(1979): Public Finance: An Introduction, Routledge & Kegan Paul, London,
- Houghton, J.M. (1970): Public Finance: Selected Readings, Penguin Harmondsworth.
- Mundle, S. (ed.) (1997) Public Finance: Policy Issues for India, Oxford University Press, Delhi.
- Musgrave, R. A. & Musgrave P. B. (1976): Public Finance in Theory and Practice, McGraw Hill Kogakusha, Tokyo.
- Musgrave, R.A. (1959): The Theory of Public Finance, McGraw Hill Kogakusha, Tokyo
- Ochs, Jack (1974): Public Finance, Harper Row Publishers, New York.
- Shoup, C. S. (1970), Public Finance, Aldine, Chicago.
- Cullies, J and Jones P. (1999): Public Finance and Public Choice, McGraw Hill, London.

T.Y.B.A. Economics (Optional) Paper IV.I Quantitative Methods for Economics Paper I

1. Basic Concepts: Functions, Sequences and Series; Equations; Identities; Systems of Equations; Application of Straight-line system; Slope of the Line; Homogeneous Function. (12 lectures)
2. Calculus: Differentiation of a Function; Equilibrium of a Firm and Consumer; Maxima and Minima; Elasticities; Inter-relationships among Total, Marginal, and Average Cost and Revenues; Constrained Optimization Problem; Integration of a Function; Consumer's and Producer's Surplus. (30 lectures)
3. Matrix Algebra: Various Types of Matrices; Matrix Operations; Determinants; Inverse of a Matrix; Cramer's Rule; Input-Output Analysis: Simple Static Model. (18 lectures)
4. Correlation and Regression: Simple Correlation; Pearson's Coefficient of Correlation and Rank Correlation. Regression: Coefficient of Regression; Estimation of a Regression Line in a Bivariate Distribution; Least Squares Method; Interpretation of Regression Coefficients. (15 lectures)

T.Y.B.A. Economics (Optional) Paper IV.II Quantitative Methods for Economics Paper II

1. Linear Programming: Graphical Solution. Solution Using the Revised Simplex Method; Duality and Shadow Prices; Formulation of Linear Programming Problems; Transportation and Assignment Problems. (28 lectures)
2. Game Theory: Zero-Sum and Non-Zero-Sum Games; Pay-off Matrix; Dominant Strategy Equilibrium; Nash Equilibrium; Pure and Mixed Strategy; Repeated and Sequential Games. (8 lectures)
3. Probability: Types of Probability (Classical, Relative Frequency and Subjective Approaches); Probability Rules; Random Variable; Probabilities Under Conditions of Statistical Independence and Dependence; Bayes' Theorem. Uses of Expected Value in Decision Making; Probability Distributions: Binomial, Poisson Normal Distributions; Standard Normal; Student t; Chi Square and F-Distribution. (22 lectures)
4. Decision Theory: Decision Environment; Expected Profit Under Uncertainty; Assigning Probability Values; Using Continuous Distributions in Decision Theory: Marginal Analysis; Utility as a Decision Criterion; Helping Decision Makers Supply the Right Probabilities; Decision-Tree Analysis. Simulation: Principles and Development; Using a Simulation Model. (17 lectures)

References

- Allen, R.G.D. (1974): Mathematical Analysis For Economists, Macmillan Press, London.
- Birchenhall, Cris & Paul Gront (1984): Mathematics for Modern Economics, Heritage Publishing, New Delhi.
- Chiang Alpha C. (1986): Fundamental Methods of Mathematical Economics, McGraw Hill, New Delhi.
- Levin, Richard I.(1986): Statistics for Management, Prentice Hall of India, New Delhi.
- Satyanaarayana, M. & L. Raman (1980) Management Operations Research, Himalaya Publishing House, Mumbai
- Speigal, M.R. (1992): Theory and Problems of Statistics, McGraw Hill, London.
- Varian H. R. (2000): Intermediate Microeconomics: A Modern Approach, East-West Press, New Delhi..
- Yamane, Taro (1973): Mathematics for Economists: An Elementary Survey, Prentice Hall of India, New Delhi.

T. Y. B. A. Economics (Optional) Paper V.I
Research Methodology in Economics
Paper I

1. Introduction: Scientific Methods of Research; Process of Scientific Method; Criteria of Scientific Methods of Research. (10 lectures)
2. Social Research: Assumptions and Steps in Social Research; Problems of Research in Social Sciences: Quantification, Organizing Controlled Experiments, Replication and Verification; Criteria of Good Research. (15 lectures)
3. Hypothesis: Meaning, Importance and Sources of Hypothesis; Characteristics of Good Hypothesis; Difficulties in Formulating Hypothesis; Testing Hypothesis. (15 lectures)
4. Research Methods: Different type of Research Methods: Social Survey, Case Study, Experimental Method, Statistical Method. (Definition, Features, Importance and Limitations). (15 lectures)
5. Empirical Investigations: Sources of Primary and Secondary Data; Census and Sampling Methods; Different Types of Samples: Simple Random, Stratified, Serially Stratified, Systematic, Cluster, Multistage and Sequential. Sampling and Non-sampling Errors. Census and National Sample Survey: Coverage, Utility and Limitations. (20 lectures)

T. Y. B. A. Economics (Optional) Paper V.II
Research Methodology in Economics
Paper II

1. Data Collection and Presentation: Data Collection and Presentation: Schedules, Questionnaire. Interview Method, Observations; (Definition, Features, Importance and Limitations). Classification of Data; Tables; Frequency Distribution; Graphical Presentation of Data: Histograms, Frequency Polygons, Cumulative Frequency Curves. (18 lectures)
2. Measures of Central Tendency and Dispersion: Mean, Median and Mode. Mean Deviation; Variance; Standard Deviation; Skewness and Kurtosis. (20 lectures)
3. Simple Correlation and Regression: Scatter Diagrams; Pearson's Coefficient of Correlation; Spearman's Rank Correlation; Coefficient of Regression; Curve Fitting. (15 lectures)
4. Time Series Analysis: Smoothing by Moving Average Methods; Trend; Cyclical, Seasonal and Irregular Variations; Least Squares Method of Curve Fitting; Deseasonalising Time Series. (12 lectures)
5. Report Writing: Preparation of Synopsis; Explaining the Research Problem and Preparation of Bibliography; Notations and Symbols; Techniques for Referencing; Methods of Review of Literature; Preparation of Articles for

Journals; Books; Preparation of Abstracts; Research Report Writing.
(10 lectures)

References:

- Bell, J. (1999) Doing your Research Project, Viva Books, New Delhi
Gilbert, Norma (1981): Statistics, Holt-Saunders, Japan
Goode, William J. and Hatt, P.K.: Methods in Social Research, McGraw Hill, New Delhi
Kothari, C.R. (1985): Research Methodology – Methods and Techniques, Wiley Eastern, New Delhi.
Mann, Peter H. (1988): Methods of Social Investigation, Disha Publications, Delhi
Ostle, Bernard (1966): Statistics in Research, Oxford & IBH, Mumbai.
Ross, R. (1974): Research: An Introduction, Barnes & Noble Books, New York.
Speigal, M. R. (1992): Theory and Problems of Statistics, McGraw Hill, London

T.Y.B.A. Economics (Optional) Paper VII.I
Introduction to Econometrics
Paper I

1. Introduction: Curve Fitting; Derivation of Least Squares; Random Variables; Estimators of Mean; Variance and Covariance; Desirable Properties of Estimators. (25 lectures)
2. Probability Distributions: Normal Distribution, Chi Square Distribution; t-Distribution; F-Distribution. Hypothesis Testing and Confidence Intervals; Type I and Type II Errors; P-values. (25 lectures)
3. Two Variable Regression Model: Assumptions; Linear Regression Method; Least Squares Residuals; BLUE Properties of OLS; The Gauss-Markov Theorem; Hypothesis Testing and Confidence Intervals; Analysis of Variance and Correlation. (25 lectures)

T.Y.B.A. Economics (Optional) Paper VII.II
Introduction to Econometrics
Paper II

1. Multiple Regression Model: assumptions of the Model; Multiple Regression Equation; F test, R Square, and Adjusted R Square; Partial Correlation. (20 lectures)

2. Econometric Problems: Multicollinearity; Heteroscedasticity; Serial Correlation. Instrumental Variables and Model Specification. (25 lectures)
3. Dummy Variables: Use of Dummy Variables. (10 lectures)
4. Forecasting with a Single-Equation Regression Model: Unconditional Forecasting; Conditional Forecasting. Models of Qualitative Choice. Introduction to Simulation Models. (20 lectures)

References:

- Bacon, R. (1988) A First Course in Econometric Theory, Oxford University Press, Oxford.
- Gujarati, Damodar N. (1995): Basic Econometrics, McGraw Hill, Singapore.
- Gujarati, Damodar N. (1999): Essentials of Econometrics, Irwin/McGraw Hill, Singapore.
- Hebden, J. (1983) Applications of Econometrics, Heritage Publishers, New Delhi.
- Johnston, J. & J.D. Nardo (1997) Econometric Methods, McGraw Hill, New York.
- Kennedy, P. (1998) A Guide to Econometrics, MIT Press, Cambridge, MA.
- Kmenta, J. (1997) Elements of Econometrics, University of Michigan Press, New York.
- Kuotsoyiannis A. (1977) Theory of Econometrics, Macmillan, London.
- Maddala, G.S. (1997) Econometrics, McGraw Hill, New York
- Pindyck, Robert S. & D.L. Rubinfeld, (1991) Econometric Models & Economic Forecasts, McGraw Hill, Singapore.
- Ramanathan, Ramu (2002) Introductory Econometrics with Applications, Thomson Asia Pte Ltd., Singapore.

T.Y.B.A. Economics (Optional) Paper VI.I
Computer Applications for Economics
Paper I

1. Introduction to Electronic Commerce: Scope of Electronic Commerce, Definition of Electronic Commerce. Electronic Commerce and the Trade Cycle, Electronic Markets, Electronic Data Interchange, Internet Commerce. (5 lectures)
2. Electronic Organization and storage of Data: Electronic storage device- Optical disks, DVDs, Storage Area Networks, RAID, Flash memory, smart cards and their applications, Expandable storage. (10 lectures)
3. Database Approach: Definition, Advantages of Database approach, Distributed Databases, Data warehouses, Data marts, data mining. (5 lectures)

4. Technologies- The Internet components- WWW, Client server model, Internet Service provider, Intranets – architecture, advantages and disadvantages, management of intranet; Extranets; Webmaster; Components of Web architecture- HTML, HTTP, CGI, URL. (15 lectures)
5. Web applications – Publishing, Distribution Channel, Network-centric computing, Intra business applications-Internal Corporate communications; Groupware, collaborative work and coordination; Online transaction processing, Decision support applications, Other intranet applications, Marketing and Advertising, Customer service and support, Searching online services. (12 lectures)
6. Web Software development tools -HTML basics, Multimedia tools, Client side scripting, server side scripting, Back end processing. (10 lectures)
7. Electronic Data Interchange: Definition, Benefits of EDI, Technology, Standards, Communications, Implementation, Agreements, Security. (10 lectures)
8. EDI and Business: EDI Trading patterns, EDI transactions, EDI adoption and EDI maturity, Inter Organization System (IOS), EDI and Internet Ecommerce. (8 lectures)

Practicals:

Practicals will feature topics relevant to the theory.

- Data collection using Web browsers and search engines
- Designing databases with DBMS like MSAccess, MYSQL etc.
- Designing the simple web pages using HTML.
- Web development tools like Microsoft Frontpage

T.Y.B.A. Economics (Optional) Paper VI.II
Computer Applications for Economics
Paper II

1. Inter Organisational E-Commerce: Inter Organisational Transactions, Purchasing online, After Sales Online, E Commerce in Desktop, Facilities Management. (10 lectures)
2. Business to Business Electronic Commerce: Credit transaction trade cycle, variety of electronic transactions- electronic market, EDI and Internet commerce; Electronic Markets – usage, advantages and disadvantages, future. (15 lectures)
3. Business to Consumer Electronic Commerce: Consumer Trade Transactions – Internet E-commerce, e-shop, Internet Shopping and the Trade Cycle. Other E-commerce Technologies, Advantages and Disadvantages of consumer E-commerce; Elements Of e-Commerce: e-visibility, e-shop, Online payments, Delivering the goods, After sales

services, Internet E commerce security – Web site evaluation model.

(20 lectures)

4. Integrated e- Commerce Technologies: The Full Set, Technology Adoption, Integrating the Supply Chain, e-Choice. (7 lectures)
5. E – business: Cases of intranet bookshops, grocery supplies, Software and support, Electronic newspaper, Internet Banking, Virtual Auction, Online share dealing. (16 lectures)
6. Recent technologies : RFID Technology and it's applications. (7 lectures)

Reference:

Whitely, David (2001): E- Commerce : Strategy ,technologies and applications. Tata McGraw Hill ,New Delhi

Kalakota ,Ravi and Whinston, Andrew: Electronic Commerce-A Manager's Guide, Pearson Education, Singapore.

Mack,Stephen and Platt,Janan: HTML – No experience Required. BPB Publications,New Delhi

Korth, Henry and Siberschatz ,Abraham Database System Concepts. Tata McGraw Hill ,New Delhi

Andersen ,Virginia (2001): Access 2002 - The Complete Reference, Tata McGraw Hill, New Delhi

Bajaj, Kamlesh K. and Nag, Debjani, E-Commerce : The Cutting Edge of Business. Tata McGraw-Hill Publishing Company Ltd., New Delhi

Loshin, Pete and Murphy, Paul (1990): Electronic Commerce, Jaico Publishing House, Mumbai.

Schneider ,Gary P. and Perry ,James T. (2000): Electronic Commerce, Course Technology.

Laudon, K.C., and Traver, C.G. (2003): E-commerce, Pearson.

McKay ,Judy and Marshall ,Peter (2004): Strategic Management of eBusiness, John Wiley & Sons.

Baumer ,David, Poindexter ,J C: "Cyber Law and E .Commerce", Tata McGraw-Hill, New Delhi.

Sood, Vivek: Cyberlaw Simplified. Tata McGraw-Hill, New Delhi.

Oberoi ,Sundeep: "E- Security, Electronic Authentication and Information Systems Security", Tata McGraw-Hill, New Delhi.

Trepper,Charles: "E-Commerce Strategies, Prentice-Hall of India, New Delhi.

Schneider, P. Gary, Perry James T : Electronic Commerce", Course Technology, Thompson Learning

Raisch,W, Milley D (2001): "The eMarketplace: Strategies for Success in B2B eCommerce" McGraw-Hill, Inc. New York.

Relevant Software Packages (MS-Access, MYSQL, Frontpage, Coreldraw, Photoshop etc)

Practicals:

Practicals will feature topics relevant to the theory.

- Graphic designing tools like Coreldraw, Photoshop etc.
- Hands-on experience with various sites based on e-commerce
- E-shopping
- Online auctions
- Online Banking
- Online share market dealing

T.Y.B.A. Economics (Optional) Paper VIII.I

Environmental Economics Paper I

1. Natural Resources Economics: Renewable and Non-Renewable resources; Problem of Sustainability; Biological Diversity as a Resource; Conservation of Natural Resources: Methods of Conservation; Economic Activity and the Problem of Residuals; Residuals and Fundamental Balance in Economic Activity. (12 lectures)
2. Environment as an Economic and Social Asset: Meaning of Environmental Economics; Trade-off between Conventional Economic Output and Environmental Quality; Emissions, Ambient Quality, and Damages. Damages Related to Emissions and Pollution; Types of Pollutants: Cumulative versus Non-cumulative Pollutants; Local Versus Regional & Global Pollutants; Point-to Source Versus Nonpoint-Source Pollutants; Continuous Versus Episodic Emissions; Environmental Damages Not Related To Emissions. Short-run and Long-run Choices. (13 lectures)
3. Economic Efficiency and Markets: Meaning of Economic Efficiency; Efficiency and Equity; Markets and Social Efficiency; External Costs; External Benefits. (12 lectures)
4. Economics of Environmental Quality: Pollution Abatement Costs; Efficient Level of Emissions; Enforcement Cost; Application of Equi-marginal Principle to Emission Reductions; Economic Efficiency and Long-Run Sustainability. (13 lectures)
5. Frameworks of Analysis: Impact Analysis: Environmental, Economic, Regulatory; Cost-Effectiveness Analysis; Damage Assessment; Risk Analysis. (12 lectures)
6. Benefit-Cost Analysis: Benefits of Improvement In Environmental Quality; Measuring Benefits: Direct and Indirect Methods; Problems in Benefit

Estimation; Costs of Environmental Protection Control Programs: Opportunity Costs; Costs of Regulation. (13 lectures)

T.Y.B.A. Economics (Optional) Paper VIII.II
Environmental Economics
Paper II

1. Environmental Policy: Basic Approaches to Environmental Policy; Criteria for Evaluation: Efficiency; Fairness; Incentives for Long-run Improvements; Enforceability; Moral Consideration; Government Failure. (12 lectures)
2. Decentralised Regulation: Liability Laws; Property Rights; Moral Suasion. (8 lectures)
3. Command-and-Control Strategies: Use of Standards; Types of Standards: Ambient Standards, Emission Standards, Technology Standards; The Economics of Standards; Economics of Enforcement. (13 lectures)
4. Incentive-Based Strategies: Emission Taxes; Tax Rate; Effects of Emission Taxes on: Efficiency, Standards of Emission, Materials Balance, Uncertainty, Incentives to Innovate, Enforcement Costs; Other types of Charges. Abatement Subsidies. Transferable Discharge Permits. (15 lectures)
5. India's Environmental Policy: Nature of Environmental Problems in India; Environmental Protection Law in India. (15 lectures)
6. Environmental Issues in Developed and Developing Economies: Consumption pattern, Labour/Output Ratio, Capital-intensity of Production, Environmental Degradation and Ecological Stress. (12 lectures)

References:

Barry C. Field (1997) Environmental Economics: An Introduction, McGraw Hill, Singapore.
Bhattacharya, R.N. (2001) Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
Bromley, D.W. (ed.) (1986) Natural Resource Economics, Policy Problems and Contemporary Analysis, Kluwer, Boston.
Hanley N, J.F. Shogren, B. White (1997) Environmental Economics in Theory and Practice, Macmillan, London.
Shankar, U. (ed) (2001) Environmental Economics, Oxford University Press, New Delhi.
Singh, Kartar (1994) Managing Common Pool Resources: Principles and Case Studies, Oxford University Press, Delhi.
Tietenberg, T. (1994) Environmental Economics & Policy, Harper Collins, New York.

Dorfman, M Robert (1972): Economics of the Environment, W. W. Norton & Co., New York.
Goswami, Delep (1999): Current Laws on Environment Protection, Deep & Deep Publications, New Delhi.
Karpagam M. (2001): Environmental Economics, Sterling Publishers, New Delhi.
Thompson D. (2003): The Economics of Environmental Protection, Winthrop Publishers, Cambridge, Mass.

T.Y.B.A. Economics (Optional) Paper IX.I
Growth and Development
Paper I

1. Economic Growth and Development: Meaning of Economic Growth and Development; Development and Underdevelopment; Role of International Development Institutions: IBRD and ADB; Measuring Development and Development Gap: Per Capita Income; Human Development Index; Social Capital. Other Indices of Development: Quality of Life; Size of Intellectual Capital; Food Security; Education, Health and Nutrition. Economic stagnation and Poverty. Inequality of Income and Wealth. (25 lectures)
2. Factors Affecting Economic Growth; Capital, Labour and Technology; Growth models: Harrod and Domar, Solow, Meade and Joan Robinson's. Introduction to New Growth Models. (25 lectures)
3. Technological Progress: Sources and Pattern of Technological Progress; Technological Changes and Productivity; Labour Saving versus Capital Saving Technological Changes; Neutrality of Technical Progress of Hicks, Harrod; Learning By Doing. (25 lectures)

T.Y.B.A. Economics (Optional) Paper IX.II
Growth and Development
Paper II

1. Human Capital: Size versus Quality of Work Force; Structural Imbalance and Investments in Human Capital; Migration of Human Capital, Reverse Migration and Economic Development. (15 lectures)
2. Institutions and Economic Systems: Introduction to Economic Systems; Economic Functions of the Market and the State; Centralized Economic Planning versus Market Mechanism; Failure of Ideology (Economic Systems Ideology); The System of New Developmental Market Economies; Cooperation between Government and Big Business. Role of Information Sharing in Co-ordination for Effective Forward and Backward Linkages. (25 lectures)

3. Institutional Reforms and Freedom: Role of Institutional Reforms; Amartya Sen's Institutional Freedoms as Ends and Means of Development: Political Freedoms; Economic Facilities; Social Opportunities; Transparency Guarantees; Protective Security. (18 lectures)
4. International Aspects of Economic Development: Role of Capital Inflows in Economic Development; Incentives to Capital Inflow; Role of Trade in Economic Development. Trade as an Engine of Growth. Static and Dynamic Gains from Trade; Prebisch, Singer and Myrdal Thesis and Immiserising Growth. Import Substitution and Export-led Growth. "Wild-geese-flying" Pattern of Development in East Asia. (17 lectures)

References:

Agenor, Pierre-Richard; Miller, Marcus; Vines David; Weber Axel (1999): The Asian Financial Crisis: Causes, Contagion and Consequences, Cambridge University Press, Cambridge U.K.

Dasgupta, Biplab (1998) Structural Adjustment, Global Trade and the New Political Economy of Development, Vistaar Publications, New Delhi.

Dasgupta, Dipankar (1997): The Macroeconomy: A Textbook View, Oxford University Press, Calcutta.

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Naqvi, S.N.H. (1993): Development Economics: A New Paradigm, Sage Publications, New Delhi.

Ray, Debraj (1998): Development Economics, Oxford University Press, Delhi,

Scott, Maurice FitzGerald (1989): A New View of Economic Growth, Clarendon Press, Oxford.

Sen, Amartya (1999): Development as Freedom, Oxford University Press, New Delhi.

Thirlwall, A.P. (1994): Growth and Development, Macmillan, Hong-Kong.

Yotopoulos, Ran A & Nugent, Jeffery B. (1976): Economics of development: Empirical Investigation, Harper & Row, Publisher, New York.

T.Y.B.A. Economics (Optional) Paper X.I
Financial Economics
Paper I

1. Introduction: Nature, meaning and importance of Investments; Investments in financial and non-financial assets. (10 lectures)
2. Forms of financial investments: Money market securities; common and preferred stock; Corporate, government and public sector bonds; alternative forms of investment; Characteristics and importance. (20 lectures)
3. Investment and returns: Interest rates, Dividends, Capital Gains; Time value of money; Inflation and returns; Measuring investment returns; Risk and risk factors; Measuring investment risks. (20 lectures)
4. Financial ratios: Importance, Calculations, Interpretations and Limitations. (25 lectures)

T.Y.B.A. Economics (Optional) Paper X.II
Financial Economics
Paper II

1. Security Market: Primary and secondary; Composition and organizations; Security market indexes; Security Markets in India; Nature and Composition of Regulatory Framework in India. (10 lectures)
2. Valuation: Valuation of bonds and common stock; Fundamental analysis; Technical analysis; Efficient markets theory. (20 lectures)
3. Derivatives: Hedging and arbitrage; Arbitrage pricing theory; Futures and Options, and Swaps. (25 lectures)
4. Portfolio analysis: portfolio diversification and performance evaluation. (20 lectures)

References:

Barua S K, V. Raghunathan, J.H. Varma: Portfolio Management, Tata McGraw Hill, New Delhi

Bhole, L.M. (1999): Financial Institutions and Markets, Tata McGraw Hill, New Delhi

Bhole, L.M. (2000): Indian Financial Financial System, Chugh Publications, Allahabad.

Edwards, F.R. and Ma, C.W. (1992): Futures and Options, McGraw Hill, New York.

Francis J C & R.W. Taylor (1992): Theory and Problems of Investments, McGraw Hill, Schaum's Outline Series, Singapore.

Keith Redhead,(1998): Financial Derivatives, Prentice- Hall of India, New Delhi.

Kohn, Meir (1994): Financial Institutions and Markets, McGraw Hill, New York.

Ohlson, J.A. (1987): Theory of Financial Markets and Institutions, North Holland, Amsterdam.

Pilbeam Keith(1998): Finance and Financial Markets, Palgrave , New Delhi.

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Vijay Baskar P and.Mahapatra, B. (2002): Derivatives Simplified , Sage Publishers, New Delhi.

T.Y.B.A. Economics (Skill-Based) Papers
Business Transactions Analysis and Accounting
Paper I

1. Accounting Principles, Concepts and Conventions.
2. Documents evidencing Business Transactions.
3. Books of Accounting Transactions; Single Entry and Double Entry System of Bookkeeping.
4. Passing of Transaction Entries (Simple and Compound) in Primary Books.
5. Posting of data from Primary to Secondary Books and Extracting Balances.
6. Bank Reconciliation Statements.
7. Trial Balance and the Rectification of Errors.

T.Y.B.A. Economics (Skill-Based) Papers
Business Transactions Analysis and Accounting
Paper II

1. Nature and Purpose of Final Statements: Income Statement and Balance Sheet.
2. Data Mining from Final Statements: Financial Ratios Method.
3. Data Mining from Final Statements: Funds Flow and Cash Flow Methods.
4. Preparation of Income Statement using Trial Balance.
5. Preparation of Balance Sheet.
6. Incorporating Adjustment Entries in Final Accounts.
7. Depreciation Accounting: Needs and Methods.

References:

Chakraborty, Hrishikesh; Viswanandan, V.; Satyanarayana M. (1982): Intermediate Accountancy, Oxford University Press, Madras.

Tulsian P C (1996): Accountancy (For CA Foundation Course), Tata McGraw-Hill, New Delhi.

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Seshan, S. A. and Gujarathi, M. R. (1979): A Survey of Financial Reporting Practices in India, Indian Institute of Management, Ahmedabad.

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Foster, G. (1978): Financial Statement Analysis, Prentice-Hall, Englewood Cliffs, N J.

Helfert, E. A. (1977): Techniques of Financial Analysis, Richard D Irwin, Homewood, Ill.

Lev, B. (1974): Financial Statement Analysis: A New Approach, Prentice-Hall, Englewood Cliffs, N J.

TYBA Economics Skill Based Papers
MARKETING RESEARCH
PAPER - 1

Introduction to Marketing Research The Nature of Marketing Research, Definition of Marketing Research, Classification of Research, The Role of Marketing Research in MIS and DSS, Careers in Marketing Research,	5 lectures
Defining the Marketing Research Problem and Developing an Approach Importance of defining the Problem, The Process of Defining the Problem and Developing an Approach, Tasks Involved, Environment Context of the Problem, Management Decision Problem and Marketing Research Problem, Defining the Marketing Research Problem, Components of the Approach,	8 lectures
Research Design Research Design: Definition, Research Design: Classification, Exploratory Research, Descriptive Research, Causal Research, Relationships among Exploratory, descriptive, and Causal Research, Budgeting and Scheduling the Project	6 lectures
Exploratory Research Design: Secondary Data Primary versus Secondary Data, Advantages and Uses of Secondary Data, Disadvantages of Secondary Data, Criteria for Evaluating Secondary Data, Sources of Secondary Data, Published External Secondary Sources	6 lectures
Exploratory Research Design: Qualitative Research Primary Data: Qualitative versus Quantitative Research, Rationale for Using Qualitative Research, A Classification of Qualitative Research Procedures, Focus Group Interviews, Depth Interviews, Projective Techniques	6 lectures
Descriptive Research Design: Survey and Observation Survey Methods, Survey Methods Classified by Mode of Administration – Telephone Methods, Personal Methods, Mail Methods, Electronic Methods, A Comparative Evaluation of Survey Methods, Selection of Survey Methods(s), Observation Methods, Structured versus Unstructured Observation, Disguised versus Undisguised Observation, Natural versus Contrived Observation, Observation Methods Classified by Mode of Administration- Personal Observation, Mechanical Observation, Audit, Content Analysis, Trace Analysis, A Comparative Evaluation of Observation Methods, A Comparison of Survey and Observation Methods	6 lectures
Causal Research Design: Experimentation Conditions for Causality, Definitions and Concepts, A Classification of Experimental Designs – Pre experimental Design, True Experimental Designs, Quasi-Experimental Design, Statistical Design, Laboratory versus Field Experiments, Experimental versus Non-experimental Design, Limitations of Experimentation, Determining a Test Marketing Strategy	6 lectures
Measurement and Scaling: Fundamentals and Comparative Scaling Measurement and Scaling, Primary Scales of Measurement, A Comparative Scaling Techniques, Paired comparison Scaling, rank-Order Scaling, Constant Sum Scaling, Q-Sort and Other Procedures.	6 lectures
Measurement and Scaling : Non-comparative Scaling techniques Non-comparative Scaling Techniques – Continuous rating Scale, Itemized Rating Scales, Non-comparative Itemized rating Scale Decisions, Multi-term Scales, Choosing a Scaling technique	6 lectures
Questionnaire and Form Design Questionnaires and Observation forms, Questionnaire Definition, Objectives of a Questionnaire, Questionnaire Design Process, Specify the information Needed, type of Interviewing Method, Overcoming Inability to Answer, Overcoming Unwillingness to Answer, Choosing Question Structure, Choosing Question Wording, Determining the Order of Questions, Form and Layout, Reproduction of the Questionnaire, Pretesting, Observational Forms	8 lectures
Sampling: Design and Procedure	8 lectures

Sample or Census, The Sampling design Process, A Classification of Sampling Techniques – Non probability Sampling Technique, Probability Sampling Techniques, Choosing Non probability versus Probability Sampling, Uses of Non probability and Probability Sampling

Sampling: Final and Initial Sample Size determination 4 lectures
Definitions and Symbols, The Sampling Distribution, Statistical Approaches to determining Samples Size

Core Text

Malhotra N. K. (2002), Marketing Research third edition, Pearson education Asia. New Delhi.

References

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Malhotra, Naresh (2004), Marketing Research: An Applied Orientation, 4th edition, Pearson/Prentice Hall.

Beri G. C. (2003) Marketing Research third edition, Tata McGraw – Hill, New Delhi.

TYBA Economics Skill Based Papers

MARKETING RESEARCH

PAPER II

Data Collection Field Work 6 lectures
The Nature of Field Work, Field Work/Data Collection Process, Selection of Field Workers, Training of Field Workers, Supervision of Field Workers, Evaluation of Field Workers

Data Preparation 6 lectures
The Data Preparation Process, Questionnaire checking - editing, coding,transcribing, Data Cleaning, Statistically Adjusting the Data, Selecting a Data Analysis Strategy, A Classification of Statistical Techniques

Frequency Distribution, Cross-Tabulation, and Hypothesis Testing 12 lectures
Frequency Distribution, statistics Associated with Frequency Distribution, Introduction to Hypothesis testing, A General Procedure for Hypothesis Testing, Cross –Tabulations, - Statistics associated with cross tabulations, Chi-square, Phi coefficient, Contingency coefficient, Cramer's V, Lambda Coefficient, Other Statistics, Cross-tabulation in practice, Hypotheses testing related to differences, Parametric tests, Nonparametric tests

Analysis of Variance and Covariance 6 lectures
Relationship among techniques, One-way analysis of variance, statistics associated with one-way analysis of variance, Conducting one-way Analysis of variance, Illustrative Applications of one-way analysis of variance, Assumptions, in analysis of variance, N-way analysis of variance, analysis of covariance, issue in interpretation, relative importance of factors, repeated measures ANOVA, nonmetric analysis of variance, Multivariate Analysis of variance

Correlation and regression 9 lectures
Product moment correlation, Partial correlation, Nonmetric Correlation, regression Analysis, Bivariate Regression, Statistics Associated with Bivariate Regression Analysis, conducting Bivariate Regression Analysis, Multiple Regression, Statistics associated with Multiple Regression, conducting Multiple Regression analysis, Stepwise Regression, Multicollinearity, Relative importance of Predictors, Cross-Validation, Regression with dummy variables, Analysis of Variance and Covariance with Regression

Discrimination Analysis 8 lectures
Basic concept, Discriminant analysis model, Statistics associated with Discrimination analysis, Conducting Discriminant Analysis, Multiple Discriminant Analysis, step wise Discriminant Analysis

Factor Analysis 6 lectures
Basic Concept, Factor Analysis model, Statistics associated with factor analysis, Conducting factor analysis, Applications of common factor analysis

Cluster analysis 6 lectures
Basic Concept, Statistics associated with cluster analysis, conducting cluster analysis, applications of nonhierarchical clustering, clustering variable,

Multidimensional Scaling and conjoint Analysis 8 lectures
Basic Concepts in Multidimensional Scaling, (MDS), Statistics and terms associated with MDS, conducting Multidimensional Scaling, Assumptions and limitations of MDS, Scaling Preference data, Correspondance Analysis, Relationship among MDS, Factor Analysis, and Discriminant Analysis, Basic concepts in conjoint Analysis, Statistics and terms associated with conjoint Analysis, Conducting Conjoint Analysis, Assumptions and limitations of Conjoint Analysis,

Report Preparation and Presentation 8 lectures
Importance of the Report and Presentation, The Report Preparation and Presentation Process, oral Presentation, Reading the research report, Research Follow-up

Core Text

Malhotra N. K. (2002), Marketing Research third edition, Pearson education Asia. New Delhi.

References

Aaker, David, V. Kumar and George Day (1995), Marketing Research, 8th edition, John Wiley & Sons.

Dillon, William R., Madden, Thomas J., and Firtle, Neil H. (1993), Essentials of Marketing Research, 1st edition, Richard D Irwin Inc.,

Malhotra, Naresh (2004), Marketing Research: An Applied Orientation, 4th edition, Pearson/Prentice Hall.

Beri G. C. (2003) Marketing Research third edition, Tata McGraw – Hill, New Delhi.

TYBA Economics Skill Based Papers
HUMAN RESOURCE MANAGEMENT
Paper I

Unit 1: Overview and Introduction of Human Resource Management
Definition of HRM, Brief history, Functions of HRM, Jobs and Careers in HRM

Unit 2: Strategic Management and Planning of Human Resources
Strategic Management, Human Resource Practice Choices, Types of Organizational Strategies and its implications on HR

Definition of HR Planning, Forecasting the Demand for Labour, the Internal Supply of Labour, External Supply of Labour, Planning Human Resource Programs.

Unit 3 Job Analysis: Procedures and Choices
Definition of job Analysis, the Scope, Methods, Data Collection and Analysis,

Unit 4: Recruitment and Job Search
Overview, Strategic Issues in Recruitment, Internal Recruiting, External Recruiting, Evaluation

Unit 5: Measurement and Decision Making Issues in Selection
Statistical methods like Correlation and Regression, Reliability, Validity, Decision Making in Selection,

Unit 6: Assessing Job Candidates: Tools for Selection
Overview of the Selection Process, Application Blanks and Bio- data, Tests, the Interview, Physical Testing, Reference and Background Checks, Selecting Managers

TYBA Economics Skill Based Paper
HUMAN RESOURCE MANAGEMENT
Paper II

Unit 1: Building Individual and Organizational Performance
Introduction, The Need Assessment Phase, The training Phase, The Evaluation Phase, Development of HR in the Future

Unit 2: Rewarding Employees
The Performance Appraisal Process, Strategic importance of Performance Appraisal, Functions, Self Managed Teams as a Performance Appraisal Challenge, Criteria for a Good Appraisal, Deciding what types of Performance to Measure, methods

Unit 3: Compensation System Development
Definition of Compensation, Employee Satisfaction and Motivational issues, Ethical Perspective of Compensation, Establishing External Equity, Establishing Internal Equity, Legal Regulation of Compensation System

Unit 4: Incentive Compensation and Benefits
Strategic Importance of Variable Pay, Individual Incentives, Group Incentives, the Role of Benefits in the Reward System, Type of Benefits,

Unit 5: Maintaining Human resources

Safety and Health, State Health and safety Legislations, Mental Health and the Workplace, Stress Management, Employee Fitness Programs

Unit 6: Labour Relations and Collective Bargaining

Definitions, Brief History of Labour unions, Legal Environment, Reasons for Forming Unions, Preparing for Negotiations, Collective Bargaining, Strikes, The Grievance Procedure

References

Fisher, C.D., L.F. Schoenfeldt, and J.B. Shaw (2002) Human Resource Management, All India Publishers' and Distributors Regd, Chennai.

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Rao, G. (2001) Management of Human Assets, Discovery Publishing House, New Delhi