

14. Scheme of Examinations :

**SYLLABUS FOR M.A. ECONOMICS
SEMESTER COURSE
M.A. Part I (Economics)**

M.A. Part I Semester I		M.A. Part I Semester II	
EC-1 Micro Economic Analysis I (Compulsory)		EC-3 Micro Economic Analysis II (Compulsory)	
EC-2 Macro Economic Analysis I (Compulsory)		EC-4 Macro Economic Analysis II (Compulsory)	
Optional Paper I Group A (any one) and Optional Paper II from Group B (any one)		Optional Paper III from Group C (any one) and Optional Paper IV from Group D (any one)	
Optional Paper Group A Any One from Group	OP 1 : Statistics for Economics – I OP 2 : Agricultural Economics OP 3 : Regional Economics OP 4 : Economics of Education and Health	Optional Paper Group C Any One from Group	OP 9 : Statistics for Economics – II OP 10 : Poverty and Income Distribution OP 11 : Industrial Economics OP 12 : Welfare Economics
Optional Paper Group B Any One from Group	OP 5 : Econometrics - I OP 6 : Public Economics OP 7 : Economics of Infrastructure OP 8 : History of Economic Thought	Optional Paper Group D Any One from Group	OP 13 : Econometrics – II OP 14 : Modern Indian Economics Thinkers OP 15 : Environmental Economics OP 16 : Rural Economy and Social Change

Note :

1. Students who opt optional paper such as Statistics for Economics – I or Econometrics – I from Group A or B in First Semester, can opt Statistics for Economics – II or Econometrics – II from Group D.
2. Students can opt other papers from group C or D in second semester i.e. optional paper Statistics for Economics – II or Econometrics – II is not compulsory to opt in Second semester.

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M.A. Part II (Economics)

M.A. Part II Semester III		M.A. Part II Semester IV	
EC-5 Economics of Growth & Development – I (Compulsory)		EC-8 Economics of Growth & Development – II (Compulsory)	
EC-6 International Trade & Finance – I (Compulsory)		EC-9 International Trade & Finance – II (Compulsory)	
EC-7 Research Methodology – I (Compulsory)		EC-10 Research Methodology – II (Compulsory)	
Optional Paper V – from Group E		Optional Paper VI – from Group F	
Optional Paper Group E	OP – 17 : Financial Institutions & Markets - I OP – 18 : Labour Economics OP – 19 : Structure of Indian Economy OP – 20 : Human Development OP – 21 : Entrepreneur Development OP – 22 : Indian Economic Policy – I OP – 23 : Mathematical Economics - I	Optional Paper Group F	OP – 24 : Financial Institutions & Markets – II OP – 25 : Economics of Marketing OP – 26 : Rural Development OP – 27 : Mathematical Economics - II OP – 28 : Computer Application in Economic Analysis OP – 29 : Indian Economic Policy – II OP – 30 : Economics of Insurance
Any One from Group		Any One from Group	

Note :

- Students who opt optional paper as Financial Institutions and Markets – I or Indian Economic Policy – I from Group E or Mathematical Economics – I in Third Semester, can opt Financial Institutions and Markets – II or Indian Economic Policy – II or Mathematical Economics – II in fourth semester from Group F or can opt other papers from group F in Fourth semester i.e. optional papers Financial Institutions and Markets – II or Indian Economic Policy – II or Mathematical Economics – II are not compulsory to opt in Fourth semester.

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

SYLLABUS PRESCRIBED FOR M.A. PART – I AND PART II EXAMINATION ECONOMICS

M.A. PART I - FIRST SEMESTER

Compulsory papers

EC- 01 Micro Economic Analysis I

EC-02 Macro Economic Analysis I

Optional Paper I: any one from group A

OP - 01 : Statistics for Economics – I

OP - 02 : Agricultural Economics

OP - 03 : Regional Economics

OP - 04 : Economics of Education and Health

Optional Paper II: Any one from group B

OP - 05 : Econometrics - I

OP - 06 : Public Economics

OP - 07 : Economics of Infrastructure

OP - 08 : History of Economic Thought

M.A. PART I - SECOND SEMESTER

Compulsory papers

EC-03 Micro Economic Analysis II

EC-04 Macro Economic Analysis II

Optional Paper III :Any one from group C

OP - 09 : Statistics for Economics – II

OP - 10 : Poverty and Income Distribution

OP - 11 : Industrial Economics

OP - 12 : Welfare Economics

Optional Paper IV: Any one from group D

OP - 13 : Econometrics - II

OP - 14 : Modern Indian Economics Thinkers

OP - 15 : Environmental Economics

OP - 16 : Rural Economy and Social Change

M.A. PART II - THIRD SEMESTER

Compulsory papers

EC- 05Economics of Growth & Development – I

EC- 06International Trade & Finance – I

EC- 07Research Methodology – I

Optional Paper V :Any one from group E

Group E :

OP – 17 :Financial Institutions& Markets - I

OP – 18 :Labour Economics

OP – 19 : Structure of Indian Economy

OP – 20 :Human Development

OP – 21 : Entrepreneur Development

OP – 22 : Indian Economic Policy – I

OP – 23 :Mathematical Economics - I

M.A. PART II - FOURTH SEMESTER

Compulsory papers

EC- 08Economics of Growth & Development – II

EC- 09International Trade & Finance – I)

EC-10Research Methodology – II

Optional Paper VI :Any one from group F

Group F :

OP – 24 :Financial Institutions & Markets –II

OP – 25 : Economics of Marketing

OP – 26 :Rural Development

OP – 27 :Mathematical Economics - II

OP – 28 :Computer Application in Economic Analysis

OP – 29 :Indian Economic Policy – II

OP – 30 : Economics of Insurance

**SYLLABUS PRESCRIBED FOR
M.A. PART – I EXAMINATION
ECONOMICS**

**M.A. Part – I Semester - I
Compulsory Paper**

EC – 01 : Micro Economics - 1

Module 1 : Introduction and Basic Concepts.

- 1.1 Basic Economic Problem- Choice and Scarcity.
- 1.2 Methodology of Economics : Deductive and Inductive, Positive and Normative Economics, Static and Dynamic Equilibrium
- 1.3 Concept of Equilibrium : General Equilibrium v/s Partial Equilibrium -Walrasian theory of General Equilibrium

Module 2 : Demand Analysis - I

- 2.1. Concepts of cardinal and ordinal utility.
- 2.2 Applicability of Indifference Curve Analysis
- 2.3 Revealed Preference Theory.

Module 3 : Demand Analysis - II

- 3.1 Concept of Elasticity – Price, Income and Cross – Elasticity, Measurements, empirical estimations.
- 3.2 Modern Utility Analysis : The Bernoulli Hypothesis, the Neumann Morgenstern Method, the Friedman- Savage Hypothesis and the Marcowitz Hypothesis

Module 4 : Theory of Production and Costs

- 3.1 Production Function :- Law of Variable Proportions and Returns to Scale.
- 3.2 Isoquants:- Properties , Producer's equilibrium
- 3.3 Economies of Scale: - Internal Economies and Diseconomies, External Economies and Diseconomies.
- 3.4 Linear Homogenous Production Function
- 3.5 Cobb- Douglas (C-D) Production Function
- 3.6 Short Run and Long Run Cost Curve.

Books Recommended :

- 1 Ahuja H. L., Advanced Economic Theory : Microeconomics Analysis, 13th Edition, S. Chand and Co. Ltd., New Delhi.
- 2 Bain J. (1958) Barriers to New Competition, Harrard University Press, Harvard.
- 3 Baumol, W.J. (1982): Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- 4 Baumol, W.J. 1982), Economics Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- 5 Chaturvedi, Gupta and Pal (2002) Business Economics: Text and Cases Galgotia Publishing Company, New Delhi.
- 6 Dewett K. K., Modern Economic Theory, S. Chand & Company Ltd., Revised Edition, 2005.
- 7 Koutsoyiannis, A. (1979): Modern Microeconomics, 2nd ed., Macmillan Press, London.
- 8 Kreps, David M (1990): A Course in Microeconomic Theory, Princeton University Press, Princeton.
- 9 Layard, P.R.G. and A.W. Walters (1978): Microeconomic Theory, McGraw Hill, New York.

- 10 Sen, A. (1999): Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
- 11 Stigler, G. (1996): Theory of Price, 4th ed., Prentice Hall of India, New Delhi.
- 12 Varian, H. (2000): Microeconomic Analysis, W.W. Norton, New York.

M.A. Part – I : Semester - I Compulsory Paper

EC – 02 :Macro Economic Analysis-I

Module 1 : National Income Accounting

- 1.1 Definitions, different concepts, importance and difficulties in measurement of National Income.
- 1.2 Methods of measurement of national income –circular flow of income in two –three and four sector economy;
- 1.3 Different forms of national income accounting: Social accounting, flow of funds accounting and balance of payments accounting.

Module 2 : Supply of Money

- 2.1 Components of money supply. Measurement of money supply
- 2.2 RBI Approach to Money Supply -M1, M2, M3 and L1, L2, L3
- 2.3 High Powered Money and Money Multiplier; Budget Deficits and Money Supply
- 2.4 Money Supply and Open Economy; Control of Money Supply

Module 3: Demand for Money

- 3.1 Classical Approach to Demand For Money – Fisher and Cambridge
- 3.2 Keynesian approach - Liquidity Preference Theory : Transaction, Precautionary and Speculative Demand for Money;
- 3.3 Milton Friedman’s Approach – Wealth theory.
- 3.4 Port folio balance Approach – Baumol and Tobin.

Module 4 : Consumption Function

- 4.1 Keynes, psychological law of consumption – implication of the law ; short-run and long-run consumption function ;
- 4.2 Empirical evidence on consumption function ;
- 4.3 Income – consumption relationship – absolute income, relative income, life cycle and permanent income hypotheses.

Books Recommended :

- 1 Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 Vols), Oxford University Press, London.
- 2 D’Souza, Errol (2008), Macroeconomics, Pearson Education, Delhi.
- 3 Gupta R.D.andRana A.S. (1998): Post-Keynesian Economics, Kalyani Publishers, Ludhiana.
- 4 Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern macroeconomics, Oxford University Press, New Delhi.
- 5 Jha, R (1991) : Contemporary Macro Economic theory and Policy, Wiley Eastern Ltd.,
- 6 Jhingan, M.L.(1999) : Macro Economics
- 7 Keynes, J.M (1936) : General Theory of Employment, Interest and Money
- 8 Mithani D. M., Money, Banking, International trade and public finance, Himalaya Publications
- 9 Rakshit, M. (1998), Studies in the Macroeconomics of Developing Countries, Oxford University Press, New Delhi.
- 10 Reddy.Y.V. (2000): A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.

M.A. Part – I : Semester - I
Optional Paper – Group : A

OP – 01 :Statistics for Economics - I

Module 1 : Sampling and sampling methods

- 1.1 Sample and Population, Parameters and Statistics.
- 1.2 Variables and Attributes; sampling and non-sampling errors;
- 1.3 Concept of sampling - random and non-random sampling; Simple random; Stratified random, systematic sampling, cluster sampling and non-random sampling methods.
- 1.4 Indian Statistics : CSO, NSSO, Recent Population Census, Agricultural and Industrial Statistics

Module 2 :Statistical Methods - I

- 2.1 Measures of Central Tendency : Meaning, Importance and Uses, Requirement of Good Measures,
- 2.2 Types of Measures of Central Tendency : Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean

Module 3 :Statistical Methods - II

- 3.1 Measure of Dispersion :Meaning, Importance and Uses, Requirement of a good Measures of Dispersion and Skewness
- 3.2 Correlation analysis : Types, Methods of Studying Correlation, Karl Pearson's Coefficient of Correlation, Calculation of Correlation for Grouped and Ungrouped Data, Interpretation of the Correlation Co-Efficient, Properties of Correlation Co-Efficient, Spearman's Rank Correlation and Interpretation
- 3.3 Regression :Concept & Linear Regression, Fitting of Lines of Regression by the Least Squares Method

Module 4 : Theory of Probability

- 4.1 Probability, distribution, Events spaces.
- 4.2 Joint, Marginal and Conditional Probability under conditions of certainty and uncertainty.
- 4.3 Random variable: Expectation and Distribution.
- 4.4 Addition and Multiplication Theorems.
- 4.5 Probability Distribution, discrete and continuous and Expected values.

Books Recommended :

- 1 Goon AM, M.K.Gupta and B.Dasgupta.: Fundamentals of Statistics, Vol.1, The World Press, Ltd, Calcutta.
- 2 Gupta S.C And Mrs. Indira Gupta: Business Statistics: Himalaya Publishing House; Delhi
- 3 Gupta, S.C., Fundamentals of Applied Statistics, S. Chand & Sons New Delhi.
- 4 Gupta, S.P., Introduction to Statistical Methods.,S.Chand& Sons New Delhi.
- 5 King, W.I.: The Elements Of Statistical Methods; The Macmillan Co. New York.
- 6 Monga, G.S. (1972), Mathematics and statistics for Economics, Vikas Publishing House, New Delhi.
- 7 Murray R Spigel and Larry J. Stephens : Statistics, MaGraw Hill International, Ed.
- 8 Nagar,A.L.andR.K.Das: Basic Statistics Oxford University Press, New Delhi.
- 9 Speigal, M.R., Theory and Problems of Statistics, Mcgraw hill Book Co.,London.
- 10 Veerachamy R.: Quantitative Methods for Economists, New Age International. Ed.

M.A. Part – I : Semester - I
Optional Paper – Group : A

OP – 02 :Agricultural Economics

Module 1: Agricultural and Economic Development:

- 1.1 Nature and scope of agricultural economics, Traditional Agriculture and its modernization,
- 1.2 Role of agriculture in economic development, Interdependence between agriculture and industry
- 1.3 Interaction between agriculture and the rest of the economy
- 1.4 Agricultural development : poverty and environment.
- 1.5 Recent Trends in agricultural development in India.

Module 2 : Sustainable Agriculture, Agriculture and Technology :

- 2.1 Use of Biotechnology in agriculture, Organic farming – Present status & Future scope, use of Hybrid Seeds,
- 2.2 Efficiency of irrigation, fertilisers.
- 2.3 Technology in Agriculture- Meaning, Objectives, Factors and Limitations,
- 2.4 Innovation and Agricultural Production.
- 2.5 Impact of technological changes on Agricultural Production.

Module 3 : Problems of Agricultural Marketing in India:

- 3.1 Types of Agricultural Markets, Structure and Problems of Agricultural Marketing in India.
- 3.2 Functions of Agricultural Marketing- Packaging, Transportation, Grading and Standardization, and Storage and Warehousing.
- 3.3 Role of Government in Promoting Agricultural Marketing in India.
- 3.4 Promotion of Regulated Markets (APMCs) - Importance, Functions, Problems and Remedial Measures.
- 3.5 Terms of trade between agricultural and non-agriculture prices.
- 3.6 Need for state intervention; Objectives of agricultural price policy.

Module 4 : Agri-Business, Agriculture and External Sector

- 4.1 Meaning of Agri-business; Need for Agri-Business; Characteristics of Agri-Business in India.
- 4.2 Agro- Processing- Structure and Classification; Agro-Food Processing- Structure - Milk and Milk Products, Fish and Poultry; Horticulture and Plantation- Fruits, Vegetables and Flowers.
- 4.3 WTO and Agreement on Agriculture (AOA), Globalization of Indian Economy and problems and prospects of Indian Agriculture.
- 4.4 Impact of World Trade Organisation on Indian Agriculture.

Books Recommended :

- 1 Acharya S.S. and Agarwal N.L. (1994), Agricultural Prices-Analysis and Policy, Oxford and IBH Publishing Co., Pvt.Ltd., New Delhi.
- 2 Agrawal A.N. & Kundan K.L. Agricultural Problems of India, Vikas Pub. House, New Delhi
- 3 B.N.P. Singh. : Indian Economy Today Changing Contours. Deep and Deep Pub.
- 4 Belshaw, H, Agricultural Credit in Economically under Developed Countries, FAO, Rome.

- 5 Bhaduri, A. (1984), *The Economic Structure of Backward Agriculture*, MacMillan, Delhi.
- 6 Bhalla, G.S. (1994). *Economic Liberalisation and Indian Agriculture*, Institute for Studies in Industrial Development, New Delhi.
- 7 Bhupat M. Desai, N.V.Namboodiri (2001), “Organisation and Management of Rural Financial Sector” Text, cases and Exercise, Oxford and IBH Publishing Pvt. Ltd., New Delhi, Calcutta.
- 8 Bilgrami, S.A.R. (1996), *Agricultural Economics*, Himalaya Publishing House, Delhi.
- 9 Chada, G.K. and A.N. Sharma (1997). *Growth, Employment and Poverty: Change and Continuity in Rural India*, Vikas Publishing House, New Delhi.
- 10 Dantwala, M.L. (1996). *Dilemmas of Growth: The Indian Experience*, Sage Publications, New Delhi.
- 11 Dantwala, M.L., et.al. (1991), *Indian Agricultural Development Since Independence*, Oxford & IBH,, New Delhi.
- 12 DewettKewal :*Indain Economy* C.Chand& Co. Ltd. New Delhi.
- 13 E.O. Heady (1964), *Economics of Agricultural Production and Resource Use*, Prentice Hall of India Pvt.Ltd., New Delhi.
- 14 Government of India (1976), *Report of the National Commission on Agriculture*, New Delhi,
- 15 Government of India (1976). *Report of the National Commission on Agriculture*, New Delhi.
- 16 Government of India, *Economic Survey (Annual)*, New Delhi.
- 17 GulabNath Singh, Dal Singer Singh and Ram Iqbal Singh (1987), *Agricultural Marketing in India (Analysis, Planning and Development)*, chugh publications, Allahabad.
- 18 Gulati and Kelly (1999). *Trade Liberalisation and Indian Agriculture*, Oxford Univ. Press, New Delhi.
- 19 Gulati, A. and Kelly, J. (1999), *Trade Liberalization and Indian Agriculture*, Oxford University Press, New Delhi.
- 20 HanumanthaRao, C.H. (1975), *Agricultural Growth, Rural Poverty and Environmental Degradation in India*, Oxford University Press, New Delhi.
- 21 Jodhar, N. (Eds.) (1996). *Challenges to Indian Bankings*, Macmillan, New Delhi.
- 22 Joshi, P.C. (1975), *Land Reforms in India Trends and Prospects*, Allied Publishers, Bombay.
- 23 Kahlán A.S., Tyagi D.S.(1983) , “*Agricultural Price Policy in India*, Allied Publishers, Bombay.
- 24 Kapila Uma (ed) *Indian Economy Since Independence*. Academic Foundation
- 25 Kathuriamand, G.and Chandrasekhar, K. *Elements of Agricultural Finance*.
- 26 Kaur, R.(1975), *Agricultural Price Policy in Economic Development with stability*, National Publishing House, Delhi.
- 27 M.V.Nadkarni (1973) : *Agricultural Price Policy in Economic Development* Kalyan Publishers, new Delhi.
- 28 Mamoria C.B. *Agricultural Problems of India* KitabMahal Pub. 2005.
- 29 Mitra, A. (1977), *Terms of Trade and Class Relations*, Frank Cass Co.Ltd., London.
- 30 Rao, C.H. Hanumantha (1975). *Agricultural Growth, Rural Poverty and Environmental Degradation in India*, Oxford University Press, New Delhi.
- 31 Rudra A. (1982), *Indian Agricultural Economics, Myths and Reality*, Allied Publishers, New Delhi.
- 32 Rudra, A. (1982). *Indian Agricultural Economics: Myths and Reality*, Allied Publishers, New Delhi.
- 33 Saint, G.R. (1979), *Farm Size, Resources Use Efficiency and Income Distribution*, Allied Publishers, New Delhi.
- 34 Singh Acharya, Sagar - *Sustainable Agricultural Poverty and Food Securities*, Rawat Publication JaypurVol- I & II
- 35 SubbaRao, K, and AjainDeJanuary (1986), *Agricultural Price Policy and Income Distribution in India*, Oxford University Press, New Delhi.
- 36 Subbarao, K. and De Janvry (1986). *Agricultural Price Policy and Income Distribution in India*, Hansra, B. S. and Vijayaragavan, K (2003): *Agribusiness and Extension Management*,

M.A. Part – I : Semester - I
Optional Paper – Group : A

OP – 03 :Regional Economics

Module – 1: Scope and Definition of regional Economic:

- 1.1 Concept of Regional Planning -Different types of regions - complementary region
- 1.2 Causes for Regional Imbalances- Measures to reduce regional Imbalances- Regional Development and regional planning- Sectoral and Functional approaches -Macro and Micro level planning of regional economics.
- 1.3 Importance of Regional analysis in developed and backward economics
- 1.4 Regional Economic Problems- Perspectives on Economic Growth and Development

Module – 2: Regional Income and Social Accounting:

- 2.1 Concept of Region-definitional problems-Physical or geographical, demographic, planning regions, nodal regions analysis for identification of a region.
- 2.2 Regional approach to the problems of a backward economy.
- 2.3 Models and Problems of Regional Economic Growth.

Module – 3: Identification of Backward regions:

- 3.1 Determinants of Regional Development:
- 3.2 Natural Endowments Human Resources-Capital-Technology-Economic and Social infrastructure;
- 3.3 Factor and commodity mobility and Regional development; Convergence Theory.

Module – 4: National and regional Planning goals and objectives:

- 4.1 Historical perspectives of Indian development: Regional Development Models:
- 4.2 Metropolitan Model-Bombay, Delhi. Calcutta. Command Area Development-Tribal Development-
- 4.3 Drought Prone Area-Mineral Based Regions,Components of regional planning, Magnitude of Regional imbalances-
- 4.4 Regional Planning Policy in India and Maharashtra and Vidarbha.

Books Recommended :

- 1 Chand, M. and U.K. Puri : Regional Planning in India, Allied Publishers, New Delhi.
- 2 Dholakia, R.H : Regional Disparity in Economic Growth in India, Himalaya Publishing House, Bombay.
- 3 Glasson, J : An Introduction to Regional Planning, Concepts, Theory and Practice, Hutchison, London.
- 4 HanumanthaRao, CH : Regional Disparities and Development in India, Ashish Publishing House, New Delhi.
- 5 Rao, H. Regional Disparities & Development in India, Ashish Publishing House, New Delhi
- 6 Richardson, H.W : Regional Economics, Weidenfield and Nicolson, London.
- 7 Siebert, H. Regional Economic Growth; Theory & Policy, International Textbook Company, Scranton

M.A. Part – I : Semester - I
Optional Paper – Group : A

OP – 04 :Economics of Education and Health

Module1 : Economics of Education

- 1.1 Meaning of Economics of Education, Demand for Education–Private Demand and Social Demand; Determinants of Demand;
- 1.2 Costs of Education–Expenditure on Education; Private Costs and Social Costs;
- 1.3 Benefit of Education– Direct and Indirect Benefits; Private and Social Benefit;
- 1.4 Cost–Benefit Analysis, rate of return to investment in education

Module2 : Education and Economic Development in India

- 2.1 Objectives of Educational Planning; A Review of Educational Development in India – Primary, Secondary, Vocational, Higher, Technical and Adult Education;
- 2.2 Educational Policy in India; Expenditure on Education and Improvement in Literacy in India; Educational Development and Employment in India.
- 2.3 Globalization and higher education, National Knowledge Commission Effects of educational financing on income distribution; Effects of education, Ability and family background on earnings, 2.4 Poverty and income distribution, Education and employment;

Module3 : Demand for and Supply of Health

- 6.1 Nature of Demand for Supply of Health, Determinants of Demand,
- 6.2 Models of Demand for Health
- 6.3 Pricing of Health Care Services-Drugs, Hospitals;
- 6.4 Cost of Health Care Services; Market Failure;

Module 4:Financing Health Care

- 4.1 Financing of health care and resource constraints, Health Status Indicators and measurement,
- 4.2 A review of per capita private and public expenditure on health services.
- 4.3 Economic Reforms and Health Sector. Need for a social health insurance for the poor, disabled and the aged.
- 4.4 The role of development financing institutions in financing health services.
- 4.5 Health insurance Policy in India.

Books Recommended :

- 1 Agarwal, Pawan, Higher Education in India: The need for Change.
- 2 Aggarwal and Aggarwal, Educational Planning in India, Vol. I, Delhi.
- 3 Altbach, Philip G. and Chitnis, S. (1993), Higher Education Reform in India: Experience and concepts
- 4 Banerjee D., Social Cultural and Foundations of Health Services Systems of India, Inquiry, Supplement to Vol. XII June.
- 5 Banerjee D., Poverty, Class and Health Culture in India Vol. I, Prachi Prakashan, New Delhi.
- 6 Baru, R.U., *Private Health Care in India; Social Characteristics and Trends*, Sage Publications, New Delhi.
- 7 Baumol, W.J. and W.E. Oates (1988), *The Theory of Environmental Policy*, (2nd Edition), Cambridge University Press, Cambridge.
- 8 Becker, G.S., *Human Capital* (2nd Edition), National Bureau of Economic Research, New York.
- 9 Berman, P. and M.E Khan, *Paying for Indian's Health Care*, Sage Publications, New Delhi.
- 10 Berman, R. (Ed), *Health Sector Reform in Developing Countries: Making Health Development Sustainable*, Boston: Harvard Series on Population and International Health.

- 11 Blaug, M., Introduction to Economics of Education, Penguin, London.
- 12 Bromely, D.W. (Ed), Handbook of Environment Economics, Blackwell, London.
- 13 Cohn, E. and T.Gaske, Economics of Education, Pergamon Press, London.
- 14 Das Gupta M., Chen, L. C. and Krishna, T. N, Health, Poverty and Development in India, Oxford University Press, Delhi.
- 15 Feldstein M.S., Economic Analysis of Health Service Efficiency, North Holland, Amsterdam.
- 16 Fisher , A.C., Resource and Environmental Economics, Cambridge University Press, Cambridge
- 17 Gandhian Institute for Rural Health and Family Planning (1972), Studies on Mortality in India,
- 18 Hanley, N., J.F.Shogern and B. White, Environmental Economics in Theory and Practice, Macmillan.
- 19 ICRIER Working Paper. Indian Council for Research on International Economic Relations. No. 180. Working Paper No. 108.
- 20 Indian Council of Social Sciences Research and Indian Council of Medical Research (1981), Health for All -200 A.D., ICSSR, Delhi.
- 21 Jeroen, C.J.M: Vanden Bergh, Handbook of Environmental and Resource Economics, Edward Elgar publishing Ltd., U.K.
- 22 Kapur, Devesh and Mehta, PratapBhanu, Indian Higher Education Reform: From Half-Baked
- 23 Krishnakumar T. and Rao K.N., Financing of Health Services in India: Perspectives and Issues”, Department of Economics, University of Hyderabad,
- 24 Madan T.N. , Doctors and Society: Three Asian Case Studies, Vikas Publishing House, Delhi.
- 25 McMohan, W.W., Education and Development; Measuring the Social Benefits, Oxford University Press, Oxford.
- 26 Mehta, S., S.Mundle and U.Sankar, Controlling Pollution: Incentives and Regulation, SAGE Publications, New Delhi.
- 27 Murthy M.N.,A.James ; and S.Misra, The Economics of water Pollution in India, Oxford University Press, new Delhi.
- 28 Padmanabhan, C.B., Financial Management in Education, Select Books, New Delhi.
- 29 Panchamukhi, P.R., Economics of Health: A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied, Delhi.
- 30 Rao, V.K.R.V, Education and Human Resources Development, Allied Publishers Bombay.
- 31 related to its Development and Finance. International Institute of and Perspectives. London: Sage Publications.
- 32 Sengupta R.P, Ecology and Economics: An approach to Sustainable Development, Oxford University Press, New Delhi.
- 33 ShriPrakash, Cost of Education: Theoretical Exploration and Empirical Prognostication,
- 34 Tilak, J, B.G., The Economics of Inequality in Education, Sage Publishers, New Delhi
- 35 Tilak, J.B.G., Education for Development in Asia, Sage Publications, New Delhi.
- 36 Vaizey, J., Economics of Education, Faber and Faber, London.
- 37 Woodhall, M., Cost Benefit Analysis in Educational Planning, UNESCO, Paris.
- 38 World Bank, The World Development Report, 1993 : Investing in Health, Oxford university Press, New York.
- 39 World Bank, The Financing Health Services of Developing Countries: An Agenda for Reform, World Bank Policy Study, Washington

M.A. Part – I : Semester - I
Optional Paper – Group : B

OP – 05 :Econometrics - I

Module 1 : Basic Econometrics

- 1.1: Nature, meaning and scope of econometrics; Simple and general linear regression model – Assumptions, Estimation (through OLS approach) and properties of estimators;
- 1.2 Gauss-Markov theorem; Concepts and derivation of R-square and adjusted R- square;
- 1.3 Concept and analysis of variance approach and its application in regression analysis;
- 1.4 Estimation of non-linear equations – parabolic, exponential, geometric, hyperbolic, modified exponential; Gompertz and logistic functions.

Module 2 : UNIT II : Problems in Regression Analysis

- 2.1 Multicollinearity: Nature, problem and remedies
- 2.2 Auto-correlation: Nature, problem and remedies
- 2.3 Heteroscedasticity: Nature, problem and remedies
- 2.4 Specification error: Nature, problem and remedies

Module 3 : Regressions with Qualitative Independent Variables

- 3.1 Dummy variable technique – Testing structural stability of regression models
- 3.2 Comparing two regressions, interaction effects, seasonal analysis, piecewise linear regression, use of dummy variables,
- 3.3 Regression with dummy dependent variables.
- 3.4 The LPM, Logit, Probit and Tobit models – Applications

Module 4 : Dynamic Econometric Models

- 4.1 Autoregressive and distributed lag models – Koyak model, Partial adjustment model, adaptive expectations;
- 4.2 Instrumental variables; Problem of auto-correlation – Application; Almon approach to distributed-lag models; Error correction models,
- 4.3 Causality test, Granger test and Sim's test.
- 4.4 Error correction mechanism and models

Books Recommended :

- 1 Gujarati D.N., Basic Econometrics, McGraw Hill, New Delhi.
- 2 Dongherty C (1992), Introduction to Econometrics, oxford University Press, New York.
- 3 Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed), The Macmillan Press Ltd., London.
- 4 Maddala, G.S. (Ed) (1993), Econometric Methods and Application (2 Vols), Aldershot, U.K.
- 5 Krishna K.L. (Ed) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- 6 Madani, G.M.K. (2000): Introduction to Econometrics: Principles and applications, Oxford University Publications.
- 7 Patricia E Gaynor and Rickey C Kirk Patrick (1994) : Introduction to Time Series and Forecasting in Business and Economics, Magraw Hill Publications.

- 8 Croxton F.E. Cowden D.J. and Klein S. Applied General Statistics- Prentice Hall New Delhi.
- 9 William H. Greene .(2008) Econometric Analysis. Pearson Education Publication New Delhi
- 10 Amemiya T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
- 11 Goldberger, A. S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.

M.A. Part – I : Semester - I
Optional Paper – Group : B

OP – 06 :Public Economics

Module 1 : Introduction

- 1.1 The Role of the Government in a Changing Perspective
- 1.2 Meaning , Objectives and interdependence of Monetary and Fiscal Policies.
- 1.3 Meaning, Types and Measurement of Taxable Capacity.
- 1.4 Provision of Private Goods, Public Goods, Social Goods, Merit Goods and Mixed Goods.

Module 2 : Impact and Incidence of Taxes and public debt

- 2.1 Meaning, Distinction, and types of Impact and Incidence
- 2.2 Theories of Shifting Tax Incidence
- 2.3 Burden of Public Debt
- 2.4 Public Debt Management

Module 3 :Government Budget and Revenue

- 3.1 Budget – Meaning and Components.
- 3.2 Preparation, Presentation and Execution of Budget.
- 3.3 Trends in Revenues of Union , State and Local Bodies since 1991.3
3. 4 Economic Reforms in Direct and Indirect Taxes

Module 4 : Fiscal Policy and Federal Finance

- 4.1 Indian Fiscal Policy since 1991.
- 4.2 Indian Fiscal Imbalance - Indicators, Causes, Effects & Remedial Measures.
- 4.3Transfer of Resources from Union to States.
- 4.4 Recommendations of latest Finance Commission.
- 4.5 Centre – States conflicts on Finances

Books Recommended :

- 1 Atkinson, A.B. and J.E. Siglitz (1980): Lectures on Public Economics, Tata McGraw Hill, New York.
- 2 Auerbach, A.J. and M. Feldstern (eds.) (1985): Handbook of Public Economics. Vol.1, North Holland, Amsterdam.
- 3 Barman, K. (1986), Public Debt Management in India, Uppal Publishing House, New Delhi.
- 4 Barman, K. (1986), Public Debt Management in India, Uppal Publishing House, New Delhi.
- 5 Bhargava, P.K. (1984): Some Aspects of Indian Public Finances, Uppal Publishing House, New Delhi
- 6 Bhargava, P.K. (1991), India's Fiscal Crisis. Ashish Publishing House, New Delhi.
- 7 Bhatia, H.L. (2000): Public Finance, Vikas Publishing House Pvt. Ltd. Delhi.
- 8 Chellaiih, Raja J.(eds,)(1997), Towards Sustainable Growth, Oxford University Press, New Delhi.
- 9 Datt, R. (Ed.)(2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.

- 10 Gandhi, V.P. (1970): Some Aspects of India's Tax Structure, Vora and Company, Bombay.
- 11 Hemlata Rao (2006) Fiscal Federalism –Issues and Policies, New Century Publications, New Delhi.
- 12 Kirit S. Parikh (Ed.) (1999) India Development Report -1999-2000, Oxford University Press, New Delhi.
- 13 Mundle, S. (1999), Public Finance Policy: Issues for India, Oxford University Press, New Delhi.
- 14 Musgrave, R.A. and P.B. Musgrave (1976): Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo
- 15 Musgrave, R.A. and P.S. Musgrave (1976): Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
- 16 Sahni, B.S. (Ed.) (1972): Public Expenditure Analysis: Selected Readings, Rotherdam University Press.
- 17 Singh S.K. (1986) Public Finance in Developed and Developing Countries, S.Chand and Company Ltd, New Delhi.

M.A. Part – I : Semester - I

Optional Paper – Group : B

OP – 07 :Economics of Infrastructure

Module I: Basic Infrastructure and energy problem

- 1.1 Introduction- Infrastructure and Economic Development – Social and Physical Infrastructure-
- 1.2 Infrastructure as a Public goods and or social good Energy & Economic Development
- 1.3 Factors determining demand for energy –Effects of energy shortage costing and pricing energy
- 1.4 Energy conservation, renewable and non-conventional sources of energy. Public-private partnership in energy investment and energy development.

Module 2 : Development of Transport and Tourism in India

- 2.1 Development of transport system- economic Development- Models of freight and passenger demand.
- 2.2 Problems of individual models of transport. Principle of pricing- current policy-problems and measures.
- 2.3 Tourism and economic development - role of state in promoting tourism - tourism planning - infrastructural requirements for marketing tourism.

Module 3 : Communications, electricity and Gas

- 3.1 Rate making in telephone utilities; principles of decreasing costs in telephone industry
- 3.2 Characteristics of postal services- its importance – Restructuring of postal services
- 3.3 Bulk supply and pricing of electricity. The relative economics of Thermal, Hydel and Nuclear Power Plants.
- 3.4 The case for a nuclear power grid- the exploitation natural gas.

Module 4 : Education and Health

- 4.1 Education in India and development of human resources; elementary, secondary and higher education in India.
- 4.2 Problems of India's education system, Reforms in education its impact on employment. Education policy in India.

4.3 Role of Health is improving the quality of human capital, Determinants of health- Health and Nutrition

4.4 Health crisis in India- The new health policy- National Rural Health Mission- Health Programmes under recent plans.

Books Recommended :

1. Baru R.V: Private Health Care in India - Social Characteristics and Trends (Sage, New Delhi, 1998)
2. Becker G.S: Human Capital (National Bureau of Economic Research, New York, 1974)
3. Berman P (Ed): Human Health Sector Reform in Developing Countries - Making Health Development Sustainable (Harvard Series on Population and International Health, Boston 1995)
4. Bhatia A.K: Tourism Development - Principles and Practices (Sterling, New Delhi 1996)
5. Jha R, Murthy M.N & Paul S: On fixing Prices for Postal Services in India (National Institute of Public Finance and Policy, New Delhi, 1990)
6. NCAER: India Infrastructure Report: Policy Implications for Growth and Development (NCAER, New Delhi, 1996)
7. Panchamukhi P.R: Economics of Health - A Trend Report in ICSSR, A Survey of Research in Economics, Vol.VI, Infrastructure (Allied, New Delhi, 1980)
8. Parikh K.S (Ed): India Development Report 1999-2000 (Oxford University Press, New Delhi, 2000)
9. Raghuram G & Rekha J: Infrastructure Development and Financing (Mac Millan, New Delhi, 1999)

M.A. Part – I : Semester - I
Optional Paper – Group : B

OP 08 : History of Economic Thought

Module 1 : Classical Economics: Adam Smith, Ricardo, Malthus, J.B. Say and J.S. Mill.

Module 2 : Sismondi, St. Simon, Robert Owen, Proudhon.

Module 3 : Marxism, Fabianism, Guild Socialism, Marshall, Keynes.

Module 4 : Kautilya, B.R. Ambedkar, M.K. Gandhi, Amartya Sen.

Books Recommended:

- 1 Ambedkar, B.R. : States and Minorities.
- 2 Bell, F. : History of Economic Thought.
- 3 Bhatnagar & others: A History of Economic Thought
- 4 Bhatta, H.L. : History of Economic Thought.
- 5 Datta, Bhabatosh : Indian Economic Thought (Twentieth Century Perspective)
- 6 Desai, S.S.M. : Development of Indian Economic Thought.
- 7 Ghosh, B.N. : Indian Economic Thought (Nineteenth Century Perspective)
- 8 Gide & Rist : History of Economic Thought.
- 9 Gray, Alexander: A History of Economic Thought:
- 10 Haney, L.H. : History of Economic Thought.
- 11 Kuber, W.N. : Dr. Ambedkar - A critical study.
- 12 Loknathan : History of Economic Thought.
- 13 Mithani, D.M. : History of Economic Thought
- 14 Paul, R.R.: A History of Economic Thought.
- 15 Srivastava, S.K.: History of Economic Thought

M.A. Part – I : Semester - II Compulsory Paper

EC – 03 :Micro Economics - II

Module 5 : Price and Output Determination –I

- 5.1. Theory of Perfect Competition :Short Run And Long Run Equilibrium of the Firm and Industry
- 5.2 Theory of Monopoly : Equilibrium of the Firm, Price Discrimination and Dumping, measurement Of Degree Of Monopoly Power
- 5.3 Regulation and Control of Monopoly.

Module 6 : Price and Output Determination-II

- 6.1 Concepts of monopolistic and Imperfect Competitions.
- 6.2 Price and non-price competition, Group Equilibrium, Product differentiation, Selling costs, Excess capacity.
- 6.3 Duopoly Models : Cournot& Bertrand, Edgeworth and Stackelberg
- 6.4 Oligopoly Models : Collusive oligopoly, Price Leadership and Price War, Model of Kinked demand curve
- 6.5 Bain's Limit Pricing Theory
- 6.6 Baumol's Sales Revenue Maximization Model.

Module 7 :Theory of Distribution

- 7.1 Marginal Productivity Theory. Product Exhaustion Thesis, Euler's theorem.
- 7.2 Modern Theory of Rent.
- 7.3 Wage determination and collective Bargaining.
- 7.4 Loanable funds Theory of interest, Liquidity Preference Theory of Interest.
- 7.5 Innovation theory of Profit : Risk and uncertainty, Theory of Profit.

Module 8: Welfare Economics.

- 8.1 Pigou's Theory of Welfare Economics.
- 8.2 Pareto's optimality conditions.
- 8:3 Rawl's Theory of justice equity efficiency trade off
- 8:4 Arrow's Impossibility theorem,
- 8.5 Amartya Sen.'s Social Choice Theory.

Books Recommended :

- 1 Ahuja H. L., Advanced Economic Theory : Microeconomics Analysis, 13th Edition, S. Chand and Co. Ltd., New Delhi.
- 2 Bain J. (1958) Barriers to New Competition, Harrard University Press, Harvard.
- 3 Baumol, W.J. (1982): Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- 4 Baumol, W.J. 91982), Economics Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- 5 Chaturvedi, Gupta and Pal (2002) Business Economics: Text and Cases Galgotia Publishing Company, New Delhi.
- 6 Dewett K. K., Modern Economic Theory, S. Chand & Company Ltd., Revised Edition, 2005.
- 7 Koutsoyiannis, A. (1979): Modern Microeconomics, 2nd ed., Macmillan Press, London.
- 8 Kreps, David M (1990): A Course in Microeconomic Theory, Princeton University Press, Princeton.
- 9 Layard, P.R.G. and A.W. Walters (1978): Microeconomic Theory, McGraw Hill, New York.
- 10 Sen, A. (1999): Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
- 11 Stigler, G. (1996): Theory of Price, 4th ed., Prentice Hall of India, New Delhi.

12 Varian, H. (2000): Microeconomic Analysis, W.W. Norton, New York.

M.A. Part – I : Semester - II Compulsory Paper

EC – 04 : Macro Economic Analysis-II

Module 5 : Investment Function :

5.1 Meaning and determinants of Investment : marginal efficiency of capital (MEC) and investment: Long and Short run shifts in investment functions

5.2 Doctrine of Multiplier and Principle of Accelerator, Super Multiplier.

Module 6 : Rate of Interest :

6.1 Theories of interest rates: Classical, Neo-classical, Keynesian.

6.2 Relative effectiveness of monetary & fiscal policies

6.3 Interest rates and price expectations – Nominal and real interest rates –

6.4 Inflationary expectations and interest rates.

Module 7 : Theories of Inflation :

7.1 Keynesian theory : Demand pull and Cost push

7.2 Philips curve analysis – Short run and Long run

7.3 Relationship between unemployment and inflation – Samuelson and Solow : the natural rate of unemployment hypothesis

7.4 Tobin's modified Philips Curve

7.5 Policies to control inflation.

Module 8 : Trade Cycles and Financial markets :

8.1 Trade cycles – phases of trade cycle. Anti cyclical Policy.

8.2 Theories of Trade Cycles – Hawtrey, Hayek, Schumpeter and Samuelson

8.3 Money Market – Characteristics and Constituents

8.4 Capital Market – Instruments and institutions of money and capital markets

Books Recommended :

- 1 Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 Vols), Oxford University Press, London.
- 2 D'Souza, Errol (2008), Macroeconomics, Pearson Education, Delhi.
- 3 Gupta R.D. and Rana A.S. (1998): Post-Keynesian Economics, Kalyani Publishers, Ludhiana.
- 4 Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern macroeconomics, Oxford University Press, New Delhi.
- 5 Jha, R (1991) : Contemporary Macro Economic theory and Policy, Wiley Eastern Ltd.,
- 6 Jhingan, M.L.(1999) : Macro Economics
- 7 Keynes, J.M (1936) : General Theory of Employment, Interest and Money
- 8 Mithani D. M., Money, Banking, International trade and public finance, Himalaya Publications
- 9 Rakshit, M. (1998), Studies in the Macroeconomics of Developing Countries, Oxford University Press, New Delhi.
- 10 Reddy.Y.V. (2000): A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.

M.A. Part – I : Semester - II
Optional Paper – Group : D

OP – 09 : Statistics for Economics - II

Module 5 : Probability Distribution Function

- 5.1 Binomial, Poisson,
- 5.2 Normal t-test, chi-square, t-test.

Module 6 : Statistical Estimation and Testing of Hypothesis

- 6.1 Types of estimators and their properties.
- 6.2 Sampling distribution for sample mean and Proportion.
- 6.3 Point and Interval estimation.
- 6.4 Null and Alternate Hypothesis.
- 6.5 Level of significance and Level of confidence, Confidence limits and Critical Region;
- 6.6 Tests of significance- Type I and II errors.

Module 7 : Time series

- 7.1 Nature and decomposition of a time series-trend.
- 7.2 Cyclical, seasonal and random components.
- 7.3 Fitting trend curves.

Module 8 : Index Numbers Periods

- 8.1. Index Numbers :Meaning ,Characteristics and Uses ,Constriction and Limitations
- 8.2. Types of Index Numbers
- 8.3. Price Index Numbers : Types - Wholesale And Retail Price Index Numbers, Laspeyre's and Paasche's Index Numbers, Fisher's Idle Index Number
- 8.4. Cost of Living Index Numbers : Steps in Construction, Methods, Computation and Use of the Cost of Living Index Numbers

Books Recommended :

- 1 Goon AM, M.K.Gupta and B.Dasgupta.: Fundamentals of Statistics, Vol.1, The World Press, Ltd, Calcutta.
- 2 Gupta S.C And Mrs. Indira Gupta: Business Statistics: Himalaya Publishing House; Delhi
- 3 Gupta, S.C., Fundamentals of Applied Statistics, S. Chand & Sons New Delhi.
- 4 Gupta, S.P., Introduction to Statistical Methods.,S.Chand& Sons New Delhi.
- 5 King, W.I.: The Elements Of Statistical Methods; The Macmillan Co. New York.
- 6 Monga, G.S., Mathematics and statistics for Economics, Vikas Publishing House, New Delhi.
- 7 Murray R Spigel and Larry J. Stephens : Statistics, MaGraw Hill International, Ed.
- 8 Nagar,A.L.andR.K.Das: Basic Statistics Oxford University Press, New Delhi.
- 9 Speigal, M.R., Theory and Problems of Statistics, Mcgraw hill Book Co.,London.
- 10 Veerachamy R.: Quantitative Methods for Economists, New Age International. Ed.

M.A. Part – I : Semester - II
Optional Paper – Group : C

OP – 10 : Poverty and Income Distribution

Module -1: Meaning and Development of poverty and income distribution

- 1.1 Development, meaning; dimensions and paths:
- 1.2 Ideologies of poverty and income distribution.
- 1.3 International aspects of poverty and income distribution,
- 1.4 Development and inequality-income distribution and development-Kuznets curve.

Module-2:

- 2.1 Poverty and income distribution in the Indian context historical perspective-Colonialism, Families and Drain Theory
- 2.2 Trends in Poverty and income Distributions
- 2.3 Temporal and Spatial-during the era of Planning.
- 2.4 Income distribution and poverty alleviation policies macro and microinstruments.

Module-3:

- 3.1 Employment generation and wages; Human capital formation, Socialservice, Asset distribution, Taxation subsidies
- 3.2 Target growth approach-Basic needsapproach.
- 3.3 Conceptual frame, poverty and income distribution, Poverty and deprivation;
- 3.4 Kinds of poverty indicators, Culture of poverty and perspectives.

Module-4:

- 4.1 Concepts of inequality-social,Political and others-inter and intra generational aspects of incomedistribution.
- 4.2 Measurement of poverty and inequality – Poverty line, its composition andconstruction
- 4.3 indices of poverty, head count ratio, Poverty gap Squared Poverty Gap-Sen's index,Human Development index, Human poverty income, Limitations-Trends inRural and Urban,
- 4.4Poverty in India-Criteria for inequality Measurement – CompleteMeasures of inequality.

Books recommended :

- 1 Dantwala M.L, Poverty in India, Then and Now, 1870-1970.
- 2 Dandekar and Rath: Poverty in India (1971)
- 3 Deb Raj Ray: Development Economics (Oxford University press), 1998.
- 4 Developing Countries, Oxford University Press, 1981.
- 5 Dudley Jackson: Poverty, Macmillan Studies, Macmillan Press 1972.
- 6 Jain T.L. :Poverty in India, ESS, Publications, 1987.
- 7 Michael P.Todaro, Economics Development (Addison-Wesley), 2000.
- 8 Paul Streeten, et. al., First Things First: Meeting Basic Human Needs
- 9 Sen A. K.: On Economic inequality, Oxford Press.
- 10 Subrahmanian S. (Ed): Measurement of inequality and Poverty, oxford press
- 11 William Loehr (Ed): Economic Development, Poverty and Income distribution
- 12 YusiroHaymai: Understanding Village Community

Parmuch

M.A. Part – I : Semester - II
Optional Paper – Group : C

OP – 11 : Industrial Economics

Module 1 : Introduction

- 1.1 Meaning, Scope, Need & Significance of the Study of Industrial Economics.
- 1.2 Industrial Profile - Private Sector, Large, Medium & Small Scale Industries, Village Industries, Public Sector, Role and Problems of Public Sector Industries, Disinvestment Policy.
- 1.3 Integration, Industrial Combinations - Causes, Mergers & Amalgamations, Effects of Industrial Monopoly.

Module 2 : Pattern and Growth of Indian Industries

- 2.1 Role and pattern of Industrialization in India.
- 2.2 Changes in the Industrial Policy of India during planning.
- 2.3 Role of public sector, private sector and co-operative sector.
- 2.4 Role and Performance of small scale and cottage industries in India.
- 2.5 Regional industrial growth in India.
- 2.6 Impact of Globalization, Privatization and Liberalizations.
- 2.7 Industrial economic concentration and remedial measures.

Module 3 : Industrial Finance

- 3.1 Sources of Industrial Finance.
- 3.2 Corporate and Institutional Finance- Their changing significance.
- 3.3 Foreign Direct Investment. Recent Trends.
- 3.4 Economic Reforms and Development financial Institutions in India.
- 3.5 Brief assessment of the working of IFCI, ICICI, IDBI, SIDBI, Exim Bank, SFCs, Commercial Banks.

Module 4 : Industrial Policy and Industrial Labour

- 4.1 Trade Union Movement in India.
- 4.2 Industrial Disputes – causes and machinery to solve them.
- 4.3 Labour Market Reforms.
- 4.4 Industrial Policy – 1991; Trends in Industrial Growth after 1991.
- 4.5 Trends in India's industrial growth after 1991.

Books Recommended :

- 1 Ahluwalia I.J.(1985) : Industrial Growth in India, Oxford University Press , New Delhi.
- 2 Barthwal, R.R. (1985): Industrial Economics, Wiley Eastern Ltd., New Delhi.
- 3 Cherunilam, F.(1994): Industrial Economics, Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
- 4 Desai, B. (1999), Industrial economy in India (3rd Edition), Himalaya Publishing House, Mumbai.
- 5 Kuchhal, S.C. (1980):Industrial Economy of India (5th Edition),Chaitanya Publishing House,

- Allahabad.
- 6 Sai Singh, A. and A.N.Sadhu (1988) : Industrial Economics, Himalaya Publishing House, Bombay.
 - 7 Kamien M.T. and N.L.Schwarz (1982) : Market Structure and Innovation, Cambridge University Press, Cambridge,
 - 8 Bhagwati, J. & P. Desai (1972) : India Planning for Industrialization, Oxford University Press, London.
 - 9 Brahmananda, ' P.R. and V.R. Panchanmukhi (Eds.)(1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
 - 10 Chekravarthy, S. (1987): Development Planning : the Indian Experience, Oxford University Press, New Delhi.
 - 11 Sandesara, J.C. (1999), Industrial Policy and Planning-1947-1991: Tendencies Interpretations and Issues, Sage Publications, New Delhi.
 - 12 Sen R and B.Chatterji (2001) : Indian Economy : Agenda for the 21st Century, Essays in Honour of Professor P.R.Brahmananda , Deep & Deep Publications Pvt. Ltd., New Delhi.
 - 13 Ahluwalia, I.J. (1985) : Industrial Growth in India-Stagnation since the mix sixties-Oxford University Press, New Delhi.
 - 14 Richard, N. Cooper : Growth and Equality, The Role of Foreign Trade Investment World Bank and Oxford University Press, 2002.
 - 15 Memoria and Memoria (2000), Dynamics of Industrial Relations in Indian (15th Eds.), Himalaya Publishing House, Mumbai.
 - 16 Khan M. I. (1981). Indian Financial Systems. Allied publishers, New Delhi.
 - 17 Sen , R. and B. Chatterjee (2001), Indian Economy : Agenda for the 21st Century (Essays in honour of Professor P.R. Brahmananda), Deep and Deep Publications Pvt. Ltd. New Delhi.
 - 18 Mamoria and Mamoria (2000), Dynamics of Industrial Relations in India (15th Edition), Himalaya Publishing House, Mumbai.
 - 19 Nayyar, Deepak (ed.)(1994) : Industrial Growth and Stagnation, Oxford University Press.

M.A. Part – I : Semester - I Optional Paper – Group : C

OP – 12 :Welfare Economics

Module 1 : Pre-Paretian Welfare Economics

- 1.1 Benthamite approach to aggregate welfare
- 1.2 Optimum recourse allocation and welfare maximisation
- 1.3 Marshallian welfare economics
- 1.4 Hicks consumer surplus

Module 2 :Paretian Welfare Economics - I

- 2.1 Pareto optimality
- 2.2 The consumption optimum
- 2.3 Comparable optima vs unique social optima
- 2.4 Compensation criteria : contribution of Barone, Kaldor and Hicks

Module 3 :Paretian Welfare Economics - II

- 3.1 Scitovsky double criteria
- 3.2 Samuelson utility possibility curve
- 3.3 Value judgment and welfare economics
- 3.4 Bergson's social welfare function

3.5 Arrow's impossibility curve

Module 4 : Some later developments

- 4.1 Private and social costs
- 4.2 Problems of non market interdependence
- 4.3 Externalities of production and consumption
- 4.4 External economies and diseconomies
- 4.5 Pigovian welfare economics
- 4.6 Dynamic welfare economics

Books Recommended :

1. Arrow K.J., Social Choice and Individual Values, Yale University Press, New haven
2. Baumol W.J., Welfare Economics and the theory of the State, Longmans, London
3. Fieldman A. M. Welfare Economics and OscilaChice Theory, MartinusNijhoff Boston
4. Myint H, Theories of Welfare economics, Longman
5. Nicolas B., Economic theory and the AWelfare State, Edward Elgar Publishing, UK
6. Quirk J and Sapasnik, Introduction to General Equilibrium Theory and Welfare Economics, McGraw Hill, New York

M.A. Part – I : Semester - II Optional Paper – Group : D

OP – 13 : Econometrics – II

Module 5 :Simultaneous Equation Models

- 5.1 Introduction and examples; the simultaneous equation bias and inconsistency of OLS estimates;
- 5.2 The identification problem; Rule of identification – order and rank Conditions;
- 5.3 Methods of estimating simultaneous equation system; Recursive methods and OLS; Indirect least squares (ILS),
- 5.4 2SLS, 3SLS and ML methods – Applications.

Module 6 : Time Series Analysis

- 6.1 Stationarity, Unit roots, co-integration-spurious regression,
- 6.2 Dickey-Fuller test, Engle- Granger test, Random walk model,
- 6.3 Forecasting with ARIMA modeling Box-Jenkins methodology;
- 6.4 Vector auto regression; Problems with VAR modeling – Applications;

Module 7 : Panel Data Techniques

- 7.1 Panel data techniques.
- 7.2 Random coefficients model' fix effects model;
- 7.3 Random effect model.
- 7.4 Applications in Economic Analysis

Module 8 : Multivariate Analysis

- 8.1 Multivariate probability distribution, Properties and Uses
- 8.2 Marginal and conditional probability distribution,
- 8.3 Multivariate normal distribution and its properties; Hostelling T-scale;

8.4 Discriminate and Principal Component Analysis

Books Recommended :

- 1 Gujarati D.N., Basic Econometrics, McGraw Hill, New Delhi.
- 2 Dongherty C (1992), Introduction to Econometrics, oxford University Press, New York.
- 3 Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed), The Macmillan Press Ltd., London.
- 4 Maddala, G.S. (Ed) (1993), Econometric Methods and Application (2 Vols), Aldershot, U.K.
- 5 Krishna K.L. (Ed) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- 6 Madani, G.M.K. (2000): Introduction to Econometrics: Principles and applications, Oxford University Publications.
- 7 Patricia E Gaynor and Rickey C Kirk Patrick (1994) : Introduction to Time Series and Forecasting in Business and Economics, Magraw Hill Publications.
- 8 Croxton F.E. Cowden D.J. and Klein S. Applied General Statistics- Prentice Hall New Delhi.
- 9 William H. Greene .(2008) Econometric Analysis. Pearson Education Publication New Delhi
- 10 Amemiya T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
- 11 Goldberger, A. S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.

M.A. Part – I : Semester - I
Optional Paper – Group : D

OP – 14 : Modern Indian Economics Thinkers

Module 1 : Economic thinkers of India since ancient times

- 1.1 Ancient economic thought : Kautilya and Sukra
- 1.2 Medieval economic thought : Ala-ud-din Khilji, Mohammad Tughlaq, Ferozshah, and Akbar
- 1.3 Contemporary thinkers
- 1.4 Conservative to liberal thinking
- 1.5 Governmental thinking
- 1.6 Socialist thinking
- 1.7 Capitalist Thinking

Module 2 : Economic Ideas

- 2.1 Economic Ideas during Vedic
- 2.2 Discrimination struggles
- 2.3 Manu's Varnashrama dharma
- 2.4 Buddha's Dhamma
- 2.4 Kautilya's Arthashastra

Module 3 : Earlier modern economic thinkers

- 3.1 Dadabhai Naoroji
- 3.2 Mahadev Govind Ranade
- 3.3 Pramathanath Banerjee
- 3.4 Romesh Chandra Dutt
- 3.5 J.K. Mehta

Module 4 : Collective economic thinking

- 4.1 Economic ideas of Jyothi Rao Phule
- 4.3 Economic ideas of Dr. B.R. Ambedkar's
- 4.4 Economic ideas of Mahatma Gandhi
- 4.5 Economics and Philosophy of Amartya Sen

Books Recommended :

- 1 Ambedkar B.R.: B.R. Ambedkar's Writings & Lectures Vol. No. 3,4,5.
- 2 Bagchi A.K.: Political Economy of Underdevelopment
- 3 Economic Philosophy:- Joan Robinson. The Political Economy of Capitalism.
- 4 Jaffery Kay : Development and under development
- 5 Jyothi Rao Phule : Gulamgiri
- 6 Lenin and Imperialism in appraisal of Theories and contemporary Reality by Prabhat Patnaik.
- 7 Lenin V.I.: Imperialism: The Highest stage of Capitalism.
- 8 Mathur & Mathur : Economic Thought of Mahatma Gandhi
- 9 Parinamavadam Vishalandra Publications- Chalasani Vasudeva Rao.
- 10 Political Economy:- L. Abalkin, S. Dzarasor. A. Kulikor A short course (Progress Publishers)
- 11 Prabhat Patnaik, Whatever happened to Imperialism

Prabhat

M.A. Part – I : Semester - II
Optional Paper – Group : C

OP – 15 :Environmental Economics

Module 1: Elements of Environmental Economics

- 1.1 Meaning, Nature and Scope of Environmental Economics;
- 1.2 Economic Development and the Environment, Elements of Ecology;
- 1.3 Interaction Between Ecological and Economic Systems;
- 1.4 Environment- Development-Poverty Nexus; Sustainable Development-Concept and Operationalisation

Module 2: Economics of Natural Resource Management and Sustainable Development.

- 2.1 Concept of Sustainable, Rules of Sustainable Development- Indicators of sustainable development,
- 2.2 Mechanism for environment regulation in India; Environmental laws and their implementation-Policy instruments for controlling water and air pollution-Forestry policy;
- 2.3 Economics of Renewable Resources; Resource Scarcity as Limits to Growth;
- 2.4 Pricing of Resources; Energy and Economic Development.

Module 3 : Environmental Problems of Agricultural and Industrial Development:

- 3.1 Environmental Problems of Industrial development: Water Pollution, Air Pollution, Noise Pollution,
- 3.2 Special Economic Zones and the environment,
- 3.3 Environmental Problems of Agricultural development- Salinity, water logging, desertification of land, Excess use of water, fertilizers and pesticides,
- 3.4 farm implements cropping Pattern, Causes, impact and importance of social forestry.

Module 4 : Environmental Problems and Environmental Policy in India:

- 4.1 Rural and Urban environmental problems – Population and the Environment
- 4.2 Housing and Slums and the environment, Rural Sanitation Scheme, Poverty and the Environment.
- 4.3 WTO and environment, issues of Climate Change, Environmental Policy in India- Environment protection laws in India,
- 4.4 Central pollution Control Board, state and Local Bodies and Environment protection.

Books Recommended :

- 1 Ali, S. A. (1979), Resources for Future Economic Growth, Vikas Publishing House, New Delhi.
- 2 Baumol, W.J.and W.E. Oates (1988), The Theory of Environmental Policy (2nd edition), Cambridge University Press, Cambridge.
- 3 Bhattacharya, R.N. (Ed) (2001), Environmental Economics; An Indian Perspective, Oxford University Press, New Delhi.
- 4 Chopra, K. (1998), Valuation of Bio-diversity within Protected Areas: Alternative Approach and a case study, Institute of Economics Growth, Delhi.
- 5 Chopra, K., KadakodiG.K.and M.N. Murthy : The Management of Common Property

Resources, SAGE, New Delhi.

- 6 Garge, M. R. (Ed.) (1996), Environmental Pollution and Protection, Deep and Deep
Publications, New Delhi.
- 7 Hanley, N., J.F.Shogern and B. White (1997), Environmental Economics in Theory and
Practice, Macmillan.
- 8 Kolstad C.D.(1999), Environmental Economics, Oxford University Press, New Delhi.
- 9 Lodha, S. L. (Ed.) (1991), Economics of Environment, RBSA Publishers, Jaipur.
- 1 Markandya, A. and M. N. Murty (2000), Cleaning up the Ganges: Cost-Benefit Analysis of
0 Ganga Action Plan, Oxford University Press, New Delhi.
- 1 Mehta, S.S Mundle and U. Sankar : Controlling pollution: Incentives and Regulation,
1 SAGE, New Delhi - 1995
- 1 Murthy, M.N, A. James and S. Misra : The Economics of Water pollution in India: Oxford
2 University Press, New Delhi, 1995
- 1 Pearce, D.W. and R.Turner (1991), Economic of Natural Resource Use and Environment,
3 John Hapkins University Press, Baltimere.
- 1 Rajlaxmi&Birunda (1994) Environomics, Allied Publishers Limited, Madras
4
- 1 Rathore, M. S. (Ed.) (1996), Environmental and Development, Rawat Publications Jaipur.
5
- 1 Sankar, U.(Ed), (2001, Environmental Economics, Oxford, University Press, New Delhi.
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- 1 Singh, G. N. (Ed.) (1991), Environmental Economics, Mittal Publications, New Delhi
7
- 1 Singh, Katar and Anil Shishodia; Environmental Economics; Theory and Applications,
8 Sage Publications, New Delhi, 2007.
- 1 Tirpathy, S.M. and Sumakar Panda, Fundamentals of Environmental Studies, Vrinda
9 Publications, Delhi.
- 2 World Bank: World Development Report, 1992: Environment and Development Oxford
0 University Press, New Delhi

**M.A. Part – I : Semester - I
Optional Paper – Group : D**

OP –16 :Rural Economics and Social Change

Module 1 :

- 1.1 Nature and scope of rural Economy,
- 1.2 Importance of Agriculture in economic Development of India,
- 1.3 Rural Economic problems of India;
- 1.4 Nature of land Problems-Evolution of Policy-Land Reforms.

Module 2:

- 2.1 Agricultural Holdings, Fragmentation and Sub-division of Holdings, Cooperative Farming
- 2.2 Rural Labour Problems-nature of Rural Unemployment
- 2.3 Employment and Wage Policy-Sources of Technological change and Green Revolution.
- 2.4 Globalization and Indian Villages.

Module 3:

- 3.1 Rural Society-its Structure and Change;
- 3.2 Village and its Social Organization-Indian Village and its types,
- 3.3 Rural-Urban Continuum and Rural-Urban relationships.
- 3.4 Rural social Institutions-family, Property, caste, Class,

Module 4:

- 4.1 Agrarian structure, indebtedness and Poverty, Jajmani System, Religion, Village,
- 4.2 Local Self Government, Panchayat Raj
- 4.3 Community Development Programmes
- 4.4 Social Change in Rural India-Impact of Westernization.

Books Recommended :

1. Carver, The Principles of Rural Economics.
2. Desai, A., Rural Sociology in India.
3. Dube, S.C., India's changing villages.
4. Nanavati & Anjala, rural problems in India.
5. RudrarDutt & K.P.M.Sundaram, Indian Economy.
6. Sachdeva, D.A. & VidyaBhusan, An Introduction to Sociology.

Pranav

**SYLLABUS PRESCRIBED FOR
M.A. PART – II EXAMINATION
ECONOMICS**

**M.A. Part – II Semester - III
Compulsory Paper**

EC – 05 :Economic of Growth and Development - I

Module-1: Economic Growth and Economic Development

- 1.1 Concepts of Economic Growth, Economic Development and Sustainable Development,
- 1.2 Measurement of Growth and Development(Income, Welfare and Social) : Per capita Income, Physical Quality of Life Index (PQLI), Human Development Index (HDI) and Human Poverty Index (HPI).
- 1.3 Nature and causes of underdevelopment- obstacles to economic growth
- 1.4 Poverty-absolute and relative, vicious circle of poverty,
- 1.5 Factors affecting Growth and Development-Capital, Labour and Technology;
- 1.6 economic Inequality and Economic Growth.

Module -2: Development-theories and Growth-models - I

- 2.1 Classical Theories of development – Adam Smith, Ricardo, James Mill, Malthus Schumpeter and Karl Marx.
- 2.2 Neo-Classical theories of development- Harrod and Domar Schumpeter, Solow and Meade, Mrs. Joan Robinson.
- 2.3 Partial theories of Growth and development - Lewis, Solow.

Module -3: Development-theories and Growth-models - II

- 3.1 Dualism theories of development – Technical, Social and Economic dualism, Hicks and Harrod -learning by doing, production function approach to the economic growth.
- 3.2 Total factor productivity and growth accounting;
- 3.3 Growth models of Kaldor and Pasinetti.
- 3.4 Two Sector models of Tobin, Levhari and Patinkin and Johnson.

Module -4: Approaches to Development

- 4.1 Production Function Approach to Growth : Kaldor's model, Linear stages approach : Rostow model;
- 4.2 Structuralist approach : Lewis model of Dualism,

- 4.3 Neo-colonial dependence approach : Ranis and Fei model,
 4.4 Neo-classical counter-revolution : Sen's capability approach.

Books Recommended :

- 1 Bhagwati, J. (Ed) (1981), International Trade, selected Readings, Cambridge, University Press, Massachusetts.
- 2 Brahmananda, P.R & Vakil, C.V. : Planning for an Expanding Economy, Vora & Co, Bombay.
- 3 Carbough, R.J. (1999), International Economics, International Thompson, Publishing, New York.
- 4 Chacholiadas, M. (1990), International Trade; Theory and Policy, McGraw Hill, Kogakusha, Japan.
- 5 Chakravathy, S. (1982) Alternative Approaches to a theory of Economic Growth, Oxford University Press.
- 6 Chenery H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development Economic. Vols. 1 & 2. Elsevier, Amsterdam.
- 7 Dasgupta P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- 8 Debraj Ray (1998), Economic Development, Oxford University Press.
- 9 Dholakia and Dholakia (1998), Theory of Economic Growth, Macmillan, U.K
- 10 Jadhav, N. (1995): Monetary Economics for India, Macmillan, New Delhi.
- 11 Kaushik Basu (1998) Analytical Development Economics, Oxford India, New Delhi.
- 12 Sen, A.K. (Ed), (1990), Growth Economic, Penguin, Harmondsworth.

**M.A. Part – II Semester - III
 Compulsory Paper**

EC – 06 : International Trade and Finance - I

Module 1: Theory of International Trade

- 1.1 Meaning, Silent Features and Importance of International Trade.
- 1.2 International Trade and Inter-Regional Trade.
- 1.3 Theories of International Trade: Classical Theories- Adam Smith, Ricardo and J.S. Mill.
- 1.4 Haberler's Theory of Opportunity Cost, Heckscher- Ohlin Theorem,
- 1.5 Factor Price Equalization Theorem, Stolper Samuelson Theorem, Rbczynski Theorem, Leontief's Paradox.

Module 2 : Terms of Trade and Gains from Trade

- 2.1 Terms of Trade-Meaning, Types, Importance, factors affecting terms of trade, causes of adverse terms of trade and their remedies.
- 2.2 Measurement of gains and Theory of International and instrument of gains from trade and their distribution;
- 2.3 Concepts of terms of trade; their uses and limitation;
- 2.4 Hypothesis of secular deterioration of terms of trade.
- 2.5 Trade as an engine of economic growth.

Module 3 : Balance of Payments

- 3.1 Meaning, Structure and Importance of Balance of Trade and Balance of Payments.
- 3.2 Kinds, Causes, Measures of disequilibrium of balance of Payments and Methods to correct disequilibrium.
- 3.3 Foreign Trade Multiplier ,

3.4 Exchange Rate Theories: Mint Par Parity Theory, Purchasing Power Parity Theory.

Module 4 : The Theory of Regional Blocks

4.1 Forms of economic co-operation;

4.2 Reforms for the emergence of trading blocks at the global level, Static and Dynamic effects of a customs union and free trade areas,

4.3 Rationale and economic progress of SAARC / SAPTA and ASEAN regions.

4.4 Problems and prospects of forming a customs union in the Asian Region, Regionalism (EU, NAFTA)

Books Recommended :

- 1 Aggarwal M.R. (1979), Regional Economic Cooperation in South Asia, S.Chand and Co., New Delhi.
- 2 Bhagwati, J. (Ed) (1981), International Trade: Selected Readings, Cambridge University Press, Massachusetts.
- 3 Brahmananda, P.R. (1982). The IMF Loan and India's Economic Future, Himalaya Publishing, Mumbai
- 4 Carbough, R.J. (1992), International Economics, International Thompson Publishing, New York.
- 5 Chancolidis, M,(1990), International Trade: Theory and Policy, McGraw are Kogakisha, Japan.
- 6 Dana, M.S. (2000), International Economics : Study, Guide and Work Book, (5th Edition), Routledge Publishers, London.
- 7 Dene, M.S. (2000), International Economics ; Study, Guide and Work for (5th Edition), Routtedga publishers, London.
- 8 JagdishBhagwati and ArvindPanagariya and T N Srinivasan, *Lectures on International Trade* 2nd edition, (oxford University Press), 2003
- 9 King, P.G. (1995), International Economics and International Economic century A Reader, McGraw Hill International, Singapore.
- 10 Kruman P.G. and &Obsetted (1994), International Economics; Theory the policy, Green New Foresman.
- 11 Man Mohan Singh : India's Export Trends and the prospects for self-sustained Growth, Oxford University Press, New Delhi.
- 12 Mithani D.M. (1997), International Economics, Himalaya publishing House, Mumbai
- 13 Nayyar, D. : India's Exports and Export Policies in the 1960's Cambridge University Press
- 14 Panchamukhi, V.R. : Trade Policies of India - A Quantitative Analysis, Concept Publishing Company, New Delhi.
- 15 Vaish, M. C. and Sudama Singh (1980): International Economics, (3rd Edition), Oxford and IBH Publication, New Delhi.

M.A. Part – II Semester - III Compulsory Paper

EC – 07 :Research Methodology - I

Module 1. Introduction

1.1 Economic Research : Meaning ,Nature, Need and Importance, Elements of Scientific Methods

1.2 Problems and Limitations of Social Science Research, Objectives and Scope of Research in Social Science

1.3 Types and methods of research; Review of literature

1.4 Need for reviewing literature, sources of literature

- 1.5 The Research Problem: Identification of the Problem, the Process of the Choice Factors Involved in the Process
- 1.6 Hypothesis: Meaning And Features of Scientific Hypothesis, Importance of the Hypothesis
- 1.7 Research Design : Meaning & Types, Identification and conceptualization of a research Research Design

Module 2. Collection of Data:

- 2.1 Collection of Data: Meaning, importance and types of Data
- 2.2 Sources, Merits and Demerits of Primary and Secondary Data
- 2.3 Requisites and types of Statistical Units, Outline and types of Statistical Inquiry
- 2.4 Sampling Techniques: Meanings of Variables, Attributes, Population and Sampling, Census Method V/S Sampling Methods
- 2.5 Basis of Sampling Methods, Sample Frame & Process of Sample Selection.

Module 3. Sampling Techniques :

- 3.1 Meaning and Types of Sampling Methods - Random Sampling, Simple Random Sampling
- 3.2 Stratified Random Sampling, Systematic Sampling, Cluster Sampling
- 3.3 Two Stage Sampling, Non-Random Sampling, Purposive Sampling, Quota Sampling (Meaning, Examples, of each types of sampling)

Module 4. Methods of Data Collection :

- 4.1 Observation : Meaning And Factors Involved in it. Types of Observation , Merits and Demerits of each type.
- 4.2 Interview :Meaning, Process , Types , Merits and Demerits of Each Type.
- 4.3 Questionnaire :Meaning , Types, Merits and Demerits of Each Type.
- 4.4 Case Study :Meaning , Features , Process Merits, Demerits & Importance

Books Recommended :

- 1 Allen, R.G.D. (1974) Mathematical Analysis for Economists, Macmillan Press, London
- 2 Gosh B.N.– Scientific Method and Social Research – Sterling Publishers (P) Ltd., 1992.
- 3 Gupta S.C. and V.K. Kapoor (1993) Fundamentals of Applied Statistics, S.Chand and Sons
- 4 Kothari- C.R.Research Methodology, Methods and Techniques – Willey Eastern Ltd., 1988.
- 5 Krishnaswamy, O.R. and Ranganathan, M. (2005) Methodology of Research in Social Research
- 6 Lundberg, George A. : Social Research, Long mans, Green and Co., New Delhi
- 7 Nachmias David & Nachmias Chava, (1981), Research Methods in the Social Sciences, New York, St.
- 8 Ranjeet Kumar (2008) : Research Methodology: A Step by Step Guide for Researchers.
- 9 Sadhu A.N.and Amarjit Singh, Research Methodology and Social sciences – Himalaya Publishing
- 10 Sharma, B A V and others (Ed) (1984) “Research Methods in Social Sciences” Sterling
- 11 Thanulingom, N. (2000), “Research Methodology” Himalaya Publishing House
- 12 Wilkinson & Bhandarkar: Methodology and Techniques of Social Research
- 13 Young, P.V. : Scientific Social Surveys and Research

M.A. Part – II : Semester - III Optional Paper – Group : E

OP – 17 : Financial Institutions and Markets - I

Module 1: Nature of Financial System:

- 1.1 Nature & Role of Financial System – Money and Near money,
- 1.2 Structure of Financial System, Financial Intermediation and intermediaries,
- 1.3 Functions of a financial Sector, Indicators of financial developments,
- 1.4 Equilibrium in financial Markets,
- 1.5 Financial System and Economic Developments.

Module 2: The role of Financial System:

- 2.1 Criteria to evaluate assets, Concepts of Risk and Return,
- 2.2 Types of Risk – default risk, financial risk, liquidity risk, interest rate risk, inflation risk, currency risk, market risk,
- 2.3 Yield on assets – Internal rate of return, Coupon rate, basic yield, current yield, yield to maturity, dividend yield, gross yield and net yield
- 2.4 Required rate of return, Risk – return trade off,
- 2.5 Valuation of securities, bonds and equity shares

Module 3: Banking in India:

- 3.1 Growth and structure of Commercial Banks in India after 1970.
- 3.2 Banking Sector Reforms,
- 3.3 Asset Liability Management of Commercial Banks,
- 3.4 Management of NPAs, Diversification on Commercial Banking,
- 3.5 Profitability and Productivity of Commercial Banks in India,
- 3.6 Co-operative Banks – Structure, Performance and Policy

Module 4: The Central Bank and Credit Policy:

- 4.1 Function of the Central Bank, Credit Creation and its control,
- 4.2 Profitability and efficiency of banks;
- 4.3 Monetary Policy of R.B.I. - Aims, Objectives and Effectiveness.
- 4.4 Financial Reforms since 1991
- 4.5 Proliferation of banking and non-banking financial intermediaries.

Books Recommended :

- 1 BharatiPathak (2009) The Indian Financial System : Pearson Education Publication New Delhi
- 2 Bhattacharaya, B.B., Financial Reforms and Financial Development in India, Institute of Management Technology, New Delhi
- 3 Bhole, L.M. (2008), Financial Institutions and Markets; Tata McGraw Hill Company Ltd., New York.
- 4 Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
- 5 Desai Vasant, Money and Central Banking, Himalaya House, Mumbai.
- 6 Edminister, R.O. (1986), Financial Institutions, Markets and Managements, McGraw Hill, New Delhi
- 7 Ghosh B.N. and Ghosh Rama, Fundamentals of Monetary Economics, Himalaya Publishing House, Mumbai.
- 8 Gupta, S.B., Monetary Economics, Institutions, Theory and Policy, S.Chand & Co., New Delhi.
- 9 Hanson, J.A. and S. Kathuria (Eds.) (1999), India : A Financial Sector for the Twenty-first Century, Oxford University, Press, New Delhi.
- 10 Harker, P.T. and A.Tenias (2000) (Ed) Performance of Financial Institutions, Cambridge University Press,

Cambridge.

- 11 Johnson, H.S.(1993), Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
- 12 Khan, M.Y. (1996), Indian financial System, Tata McGraw Hill, New Delhi.
- 13 MachiRaju, M.R. (1999), Indian Financial Systems, Vikas Publishing, New Delhi.
- 14 Prasad, K.N. (2001), Development & India's Financial Systems, sarup& Sons, New Delhi.
- 15 RBI Report of the Working Group on Foreign exchange Market in India, (Sodhani Group) Mumbai
- 16 Shekhar, S.L.N., Modern Banking, Monetary Policy and Finance, Deep and Deep Publications, New Delhi.
- 17 Srivastava R.M. and Divya Nigam 2001– Management of Indian Financial Institutions, Oxford University Press, New Delhi.
- 18 Sundharam, K.P.M., Money, Banking, Trade and Finance, S.Chand& Co., New Delhi.

M.A. Part – II : Semester - III **Optional Paper – Group : E**

OP – 18 :Labour Economics

Module 1: Labour Markets:

- 1.1 Nature and characteristics of Labour Markets in developing countries like India,
- 1.2 Demand for labour in relations to size and pattern of investment,
- 1.3 Supply of Labour in relation to growth of Labour Force.
- 1.4 Labour Market policies, Mobility of labour, Labour Problems in India.

Module 3 :Employment:

- 2.1 Employment and developing relationship- Poverty and unemployment in developing countries;
- 2.2 Unemployment-concept, types and measurement,
- 2.3 Technological Change and Modernization of Employment in Organised Private Industry;
- 2.4 Employment in Public Sector Industry,
- 2.5 Analysis of educated unemployment.

Module 3 : Wage Determination :

- 3.1 Wage Determination Theory: Classical ,
- 3.2 Neo-Classical & Collective Bargaining Theory, Concepts of Minimum Wage, Living Wage & Fair Wage,
- 3.3 Wage Determination in Rural and Urban Sectors & Organized and Unorganized Sectors,
- 3.4 Regulation of Wages : Need for State Regulation of Wages, Methods of State Regulation, Wage Regulation Mechanism and Wage Board in India.
- 3.5 Discrimination in Labour Markets, Analysis of Rigidity in Labour Markets,
- 3.6 National Wage Policy In India : Objectives & its critical Appraisal,
- 3.7 Bonus System and Profit Sharing.

Module 4: Industrial Relations:

- 4.1 Industrial Relations: Concept, Scope, Aspects, Component & Importance,
- 4.2 Factors Affecting I.R., Various Approaches & Organization for I.R.,

- 4.3 Features of Indian I.R., Pre-Requisites For Successful I.R. Programmes. Labour Unions: Growth, Pattern and Structure in India,
- 4.4 Evaluation of Trade Union Movement in India,
- 4.5 Impact of International Labour Organization on the Indian Labour.
- 4.6 Industrial Disputes : Concepts, Classification , causes and Impacts.
- 4.7 Collective Bargaining - Concept, Features and Importance

Books Recommended :

- 1 Bhagoliwal T.N. (2002), Economics Of Labour And Industrial Relations: SahityaBhavanagra
- 2 Bhatia, S.K. (2005), Constructive Industrial Relations and Labour Laws, B.R. World of Books, New Delhi.
- 3 Das N. (1960), Unemployment, Full Employment and India, Asia Publishing House, Bombay.
- 4 Datt, G. (1996), Bargaining Power Wages and Employment: An Analysis of Agricultural Labour Markets in India, Sage Publications, New Delhi.
- 5 Datt, Rudra (2005), Economic Reforms and Employment, BRW, New Delhi.
- 6 Deshpande and J C Jandesara (Ed.), Wage Policy and Wage Determination in India, Bombay University, 1970
- 7 Deshpande L.K., Brahmananda P.R. and E.A.G Robinson (eds), Employment Policy in a Developing Economy, vol. I & II, Macmillan, London, (1983).
- 8 Ghose, Ajit.K. (2003), Jobs and Incomes in Globalizing World, ILO, Geneva.
- 9 Hajela, P.D. (1998), Labour Restructuring in India: A Critique of the New Economic Policies, Common Wealth Publishers, New Delhi.
- 10 Kumar Anil, (2005), Labour Welfare and Social Security, BBW, New Delhi.
- 11 Mamoria, and Gankar(2000): Dynamics Of InduerstrialRelations:Himalaya Publishing House,24th Ed.
- 12 Marcus, Powell, (2003), Economic Restructuring and Human Resource Development, Ashgate Publishing, Aldershot
- 13 Papola, T.S., P.P.Ghosh and A.N.Sharma (Eds) (1993), Labour Employment and Industrial Relations in India, B.R Publishing Corporation., New Delhi.
- 14 Remon, Gomez (2005), Labour Supply and Incentives of Work in Europe, EE Publishing Limited, U.K.
- 15 Seth, K.V. and Suresh Chand (2004), The Economics of Labour Market, Ane Books, New Delhi.
- 16 Uchikawa, Shuji, (2003), Labour Market and Institutions in India, Manohar Pub., New Delhi.
- 17 VenkataRatnam C.S. (2001), Globalisation and Labour Management Relations; Dynamics of Change, Sage Publications, Response Books, New Delhi.

M.A. Part – II : Semester - III
Optional Paper – Group : E

OP – 19 :Structure of the Indian Economy

Module 1 :

- 1.1 Structure of Indian Economy in Pre-British Period
- 1.2 Economic stagnation during the British
- 1.3 Problems of Agriculture and Industrial sectors
- 1.4 Drain of Wealth - estimations of National Income during British period.

Module 2 :

- 2.1 Fifty years of planned development –
- 2.2 Recent trends in sectoral rates of Growth in India - Indian economy
- 2.3 Inter-State variations in Development - Lopsided development
- 2.4 Organized and unorganized sectors- emergence of informal sector in India.

Module 3 :

- 3.1 Global population structure - Birth and Death rates- demographic features of India's population
- 3.2 Rural-Urban Migration - Urbanization and its implications
- 3.3 Role of Social & Economic Factors for Population control
- 3.4 Recent trends in HDI, PQLI, GEI, GDI and other Development indices with special reference to India.

Module 4 :

- 4.1 Role of Infrastructure in Economic Development
- 4.2 Energy, Social Infrastructure- Education- Health- Environment
- 4.3 Transport
- 4.4 Regional variations in Infrastructure development and implications of recent pattern of economic development of India.

Books Recommended :

- Ahulwalia I.J. and I.M.D. Little : India's Economic Reforms and Development, Oxford University Press, (1999).
- Bardhan P.K.: The Political Economy of Development in India, Oxford University Press, (1999).
- BimalJalan : Indian Economy - Problems and Prospects
- BimalJalan : India's Economic Policy - Preparing for twenty first century, Vikas Publishers (1996).
- Brahmananda P.R. and V.R. Panchamukhi : Development Experience in the Indian Economy: Inter-State Perspectives (2001).
- Chakravarthy S.: Development Planning: The Indian Experience, Oxford University Press, (1987).
- DadabhaiNaoroji : Poverty and Un British rule in India.
- Daniel Thorner : Land and Labour in India.
- Dantawala M.L.: Dilemmas of Growth: The Indian Experience, SAGE Publications (1996).
- Dutt R. &Sunderam, K.P.M : Indian Economy, S. Chand & Co.
- Mishra &Puri : Indian Economy, Himalaya Publishing Company,.
- Sandesara J.C.: Industrial Policy and Planning 1947-1991: Tendencies, Interpretations and issues SAGE (1992).
- Sen A.K.: India's Economic Development - some regional dimensions.

**M.A. Part – II : Semester - III
Optional Paper – Group :E****OP – 20 :Economics of Human Development****Module – 1: Nature of Human Development**

- 1.1 Meaning –Concept-Definitions of Human development-
- 1.2 Components of human Development. Human, Development and Economic Development: Physical Quality of life index,
- 1.3 Human Resource Development; Usefulness of Concept
- 1.4 Theories of Human Development-Gender Empowerment Measure.

Module – 2: Measurement of Human development

- 2.1 Human Development index-Measurement of Human Development: Limitations of Human Development measure-
- 2.2 Political Freedom index
- 2.3 Human Development index and Poverty index.

Module – 3: Human development in India

- 3.1 Status of Human Development in India and in Indian States;
- 3.2 Human Development and Human Rights.
- 3.3 The State and Progress of Human Development
- 3.4 Human Development and Backward classes.

Module – 4: Expenditure on Human Development in India

- 4.1 Impact of Human development on Economic Development.
- 4.2 Human Development Expenditure in India and States (Public spending)
- 4.3 Social Capital –Economic Attainments and Well-being.

Books Recommended :

- 1 Baru, R.U. (1998): Private Health Care in India; Social Characteristics and Trends, Sage Publications, New Delhi.
- 2 Dwivedi R.S. : Human Relations and Organizational Behaviour –Global perspective, Mac. Millan India.
- 3 Human development in South Asia, 2001, published for the MahbubulHaq Human development Center, Oxford.
- 4 Lokslmansamy, T- Economics of Human Behaviour al and Publishers Ltd.
- 5 Mc. Mohan, W.W. (1999): Education of Development: Measuring the Social Benefit, Oxford University Press Oxford.
- 6 Michael, V.P : Human Resources Management and Human Relations, Himalaya Relations, Himalaya Publishing House.
- 7 National Human development Report; Government of India, 2002.
- 8 Panchamukhi, P.R. (1980): "Economics of Health: A Trend Report" in ICSSR: A Survey of Research Economics, Vol . VI, Infrastructure, Allied, Delhi.
- 9 Rao T.V. Et.al : Alternative approaches and strategy of human resources development.
- 10 SubbaRao P. : Essentials of Human Resources Management and Industrial Relations, Himalaya Publishing House.
- 11 Tilak, J.B.G. (1994): Education for Development in Asia, Sage Publications, New Delhi.
- 12 UNDP- Human Development Reports, Annual Reports.
- 13 Woodhall, M. (1992): Cost-Benefit Analysis in Educational planning, UNESCO, Paris.
- 14 World Bank (1993): The world Development Report, 1993: Investing in Health, Oxford University Press, New York.

M.A. Part – II : Semester - III Optional Paper – Group :E

OP – 21 :Entrepreneurial Development

Module 1 : The Concept of Entrepreneurship

1.1 Entrepreneurial culture - establishing entrepreneurial system - idea processing, personal, financial information and intelligence - rewards and motivation - concept bank - role of industrial fair - Theories of entrepreneurship - entrepreneurial traits - types of entrepreneurs - behavioral patterns of entrepreneurs - entrepreneurial motivation.

UNIT-II : Appraisal of Project Proposals

Feasibility prospects - project objectives, design, assessment of technical, economic, financial and marketing aspects - format to report - project management techniques - network analysis - activity performance, time schedules - factory design - Factory requirements - Factory Act provision.

UNIT-III : Sources of Product for Business

Pre-feasibility study - criteria for selection of product - ownership - capital budgeting - project profile preparation - matching entrepreneur with the project - feasibility report preparation and evaluation.

UNIT-IV : Sources of Project Finance

Credit facilities - types of credit available - evaluation of loan proposals by financial institutions - leasing arrangement - evaluation of lease proposal - Marketing channel - selecting of channel members - setting quality standards - recruitment strategies - outstanding options. Entrepreneurship development programs in India - training institutions - institutions provided technical, financial marketing assistance - role of consultancy organizations.

Books Recommended :

- 1 Gupta and Srinivasan, Entrepreneurial Development, Sultan Chand, New Delhi 1992
- 2 Hans Schollammer and Arthur H. Kniloff: Entrepreneurship and small business, Prentice Management, John Wiley.
- 3 James R. Cook and Harpet: The Start up Entrepreneur, 1986.
- 4 John E. Tropman and GershMornistar: Entrepreneurial system for the 1990s, Greenwood Press.
- 5 Joseph R. Mancuso: How to Start, finance and manage your own small business, Prentice Hall.
- 6 Sharma R.A.: Entrepreneurial change in Indian Industries, Sterling, Delhi.

M.A. Part – II : Semester - III

Optional Paper – Group :E

OP – 22 :Indian Economic Policy - I

Module 1: Features of Indian Economy :

- 1.1 Features and Characteristics of the Indian Economy,
- 1.2 Endowment of natural resources, Demographic features,
- 1.3 National income: Trends and Structure of National Income,
- 1.4 Poverty and inequality, Nature, policy & implications,
- 1.5 Growth and Structural Change in the Indian Economy.

Module 2: Infrastructure Development

- 2.1 Energy, Conventional and Non-Conventional energy development in India –
- 2.2 Energy policy –
- 2.3 Social infrastructural developments –Education and Health –Recent issues.
- 2.4 Issues and policies in financing infrastructural development in India.

Module 3: Planning in India:

- 3.1 Objectives and strategy of planning;
- 3.2 Failures and achievements of Plans;
- 3.3 Developing grass-root organizations for development-Panchayats, N.G.O.s and pressure groups.

Module 4: The Agricultural Sector:

- 4.1 Agricultural Production and Productivity,

- 4.2 Institutional structure- land reforms in India: technological change in agriculture pricing of agricultural inputs and output;
- 4.3 Terms of trade between agriculture and industry;
- 4.4 Agricultural finance policy; Agricultural Marketing and Warehousing;
- 4.5 Issues in food security-policies for sustainable agriculture.

Books Recommended :

- 1 Agarawal A.N. (2006): Indian Economy: Problems of Development and Planning (2006): A Division of New Age International (P) : Limited, New Delhi.
- 2 Ahluwalia, I.J. and I.M.D. Little (Eds) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- 3 Bardhan, P.K. (9th edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- 4 Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
- 5 Bhargava, P. K. (1991), India's Fiscal Crisis, Ashish Publishing House, New Delhi.
- 6 Bhole, L. M. (2000), Indian Financial System, Ghugh Publications, Allahabad.
- 7 Brahmananda, PR. And V.R.Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-state Perspectives, Book well, Delhi.
- 8 C.Rangarajan, (2000), Perspectives on Indian Economy -A Collection of Essays, UBSPD publishers Distributors Ltd., New Delhi.
- 9 Dantwala, M.L. (1996), Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.
- 10 Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
- 11 Dhingra I. C. (2002): Indian Economy S.Chand New Delhi.
- 12 Dutt R and KPM Sundharam (2002): Indian Economy: S.Chand New Delhi.
- 13 Government of India, Economic Survey (Annual), Ministry of Finance, New Delhi.
- 14 Gupta, S. P. (1998), Post-Reform India : Emerging Trends, allied Publishers, New Delhi.
- 15 HanumanthaRao C.H. and H.Linnemann (Eds)(1996): Economic Reforms and Poverty Alleviation in India Sage, New Delhi.
- 16 Misra S.K. &Puri, V.K.(2001), Indian Economy, Himalaya Publication House, Mumbai.
- 17 MisraS.K.andV.K.Puri, (latest): Indian Economy, Himalaya, Publishing house, Mumbai.
- 18 Mookherjee, d. (Ed.) (1997), Indian Industry : Policies and Performance, Oxford University Press, New Delhi.
- 19 Mundle, s. (1999), Public Finance : Policy Issues for India, Oxford University Press, New Delhi.
- 20 Sandesara, J.C. (1992), Industrial Policy and Planning, 1947-1991: Tendencies, Interpretations and Issues, Sage Publications, New Delhi.
- 21 Sen, R.K. and B.Chatterjee (2001), Indian Economy : Agenda for 21st Century (Essays in honour of Prof.P.P.Brahmananda), Deep & Deep Publications, New Delhi.
- 22 Sen, R.K. and B.Chatterjee (2001), Indian Economy: Agenda for 21st Century (Essays in honour of Prof.P.P.Brahmananda), Deep & Deep Publications, New Delhi.
- 23 Swamy, D. s. (1994), The Political Economy of Industrialization : from Self reliance to Globalization, Sage Publications, New Delhi.
- 24 Uma Kapila (2006): Indian Economy-Since Independence-17th Edition, Academic Foundation, New Delhi.

M.A. Part – II : Semester - III Optional Paper – Group : E

OP – 23 : Mathematical Economics- I

Module 1 : Theory of Consumer Behaviour

- 1.1 Utility Functions
- 1.2 Demand Functions
- 1.3 Substitution and Income effects
- 1.4 Slutsky Equation.
- 1.5 Theory of revealed preference.

Module 2 :Theory of Production and Cost

- 2.1 Production Function - Cobb-Douglas - Constant Elasticity of Substitution (CES) and Variable Elasticity of Substitution (VES) production functions, optimization.
- 2.2 Cost function, short run and long run cost functions
- 2.3 Constrained optimization, Empirical uses

Module 3 :Matrix algebra

- 3.1 Elementary operations of addition, multiplication etc.
- 3.2 Transpose and inverse of matrices. Rank of a matrix.
- 3.3 Solution of Simultaneous equation using matrices.

Module 4 : Differential Calculus and Integration

- 4.1 Limits of functions, Continuity at a point and over and interval,
- 4.2 Rules of Differentiation including product, quotient, and chain rule.
- 4.3 Derivatives of implicit functions, Partial derivatives, constrained optimization.
- 4.4 Profit maximization in the different types of markets.
- 4.5 Price discrimination by monopolist to maximize profits.
- 4.6 Indefinite integral of algebraic, exponential and logarithmic functions.
- 4.7 The relation between average and marginal concepts.
- 4.8 Capital values under continuous interest.

Books Recommended :

- 1 Agarwal H.S. – Mathematical Approach to Economic Theory.
- 2 Alien, R.G.D., Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
- 3 Allen, R.G.D. (1974), Mathematical Analysis for Economic, Macmillan Press and ELBS, London.
- 4 Arrow, K.J. and M. Intriligator (Eds.) (1982), Handbook of Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.
- 5 Barry Bressler: A unified Introduction to Mathematical Economics McGraw Hill New Delhi.
- 6 Black J. and J.F. Bradley: Essential Mathematics for Economists. John Wiley and Sons. London.
- 7 Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
- 8 Edward T. Dowling, Introduction to Mathematical Economics: Schaum's Outline Series Tata McGraw Hill, New Delhi.
- 9 Ferguson, C.E., Neo-classical Theory of Production and Distribution.
- 10 Hadley, G., Linear Programming, Addison Wesley Publishing Co., Massachusetts.
- 11 Handry, A.T., Operations Research, Prentice Hall of India, New Delhi.
- 12 Heijdra, B.J. and V.P. Fredericck, Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- 13 Henderson, J.M. and R.E. Quandt (1980), Micro Economic Theory: A Mathematical Approach, Mc. Graw Hill, New Delhi.
- 14 Hiller, F.S. and G. J. Lieberman (1985), Operations Research, C.B.S., New Delhi.

- 15 Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- 16 Monga G.S., Mathematics and statistics for Economists. Vikas Publishing House,
- 17 New Delhi.
- 18 Taha, H.A., Operations Research : An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
- 19 Veerachamy R. (2002): Quantitative Methods for Economists. New Age International Publishers, Bangalore.
- 20 Yamane, Taro, Mathematics for Economists, Prentice Hall of India New Delhi.

M.A. Part – II Semester - IV Compulsory Paper

EC – 08 :Economic of Growth and Development - II

Module 5 :Sectoral Aspects of Development

- 5.1 Role of Agriculture - Efficiency and productivity in agriculture. New technology and sustainable agriculture,
- 5.2 Globalization and agricultural growth, role of Industry in economic development
- 5.3 Rational and pattern of industrialization in developing countries,
- 5.4 The choice of techniques and appropriate technology and employment;
- 5.5 Efficiency of small-scale vs. large-scale production,
- 5.6 Role of Service sector in Economic development.
- 5.7 Role of Infrastructure and its importance in Economic development.

Module -6 :Macroeconomic Policies and Development

- 6.1 Financing Development-Prerior savings Vs Foreign Capital - FDI Vs Foreigntrade;
- 6.2 Neo-Classical political Economy - State Vs Market; Macro-Economic policy-Monetary Vs Fiscal Policy;
- 6.3 Internal and External sources of finance and development - IMF, IBRD and development of developing countries.

Module 7 : Trade and Economic Development

- 7.1 Internal trade and economic development,
- 7.2 International trade and economic development - Static and dynamic gains from trade;
- 7.3 Prebisch, Singer and Myrdal theories vs. free trade,
- 7.4 Free trade Vs Protective trade,
- 7.5 WTO and developing countries.

Module 8 : Allocation of Resources, Planning and Development

- 8.1 Need for investment criteria in developing countries – present vs., future,
- 8.2 Alternativeinvestment criteria- Cost-benefit analysis, Shadow Prices,
- 8.3 Need for planning – democratic, decentralized and indicative planning,
- 8.4 Micro-level planning,
- 8.5 Role of Indian Planning in the era globalization.

Books Recommended :

- 1 Bhagwati, J. (Ed) (1981), International Trade, selected Readings, Cambridge, University Press, Massachusetts.
- 2 Brahmananda, P.R & Vakil, C.V. : Planning for an Expanding Economy, Vora & Co, Bombay.
- 3 Carbough, R.J. (1999), International Economics, International Thompson, Publishing, New York.
- 4 Chacholiadas, M. (1990), International Trade; Theory and Policy, McGraw Hill, Kogakusha, Japan.
- 5 Chakravarthy, S. (1982) Alternative Approaches to a theory of Economic Growth, Oxford University Press.
- 6 Chenery H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development Economic. Vols. 1 & 2. Elsevier, Amsterdam.
- 7 Dasgupta P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- 8 Debraj Ray (1998), Economic Development, Oxford University Press.
- 9 Dholakia and Dholakia (1998), Theory of Economic Growth, Macmillan, U.K
- 10 Jadhav, N. (1995): Monetary Economics for India, Macmillan, New Delhi.
- 11 Kaushik Basu (1998) Analytical Development Economics, Oxford India, New Delhi.
- 12 Sen, A.K. (Ed), (1990), Growth Economic, Penguin, Harmondsworth.

M.A. Part – II Semester - IV Compulsory Paper

EC – 09 : International Trade and Finance - I

Module 5: Foreign Direct Investment

- 5.1 Capital Flows,
- 5.2 Concept of FDI, Effects of FDI, Nature,
- 5.3 Role and Operation of MNCs;
- 5.4 Problems Created by MNCs in the Home and Host Countries.

Module 6 : The theory of interventions

- 6.1 Free Trade Policy-Meaning, arguments and Methods in against/favour of Free Trade Vs Protection,
- 6.2 Tariffs: Classification, Effects, Optimum Tariff, Retaliation,
- 6.3 Import Quotas: Nature and Purpose, Effects, Quotas Vs. Tariffs,
- 6.4 Techniques of Dumping, Subsidies, Cartels, Commodity Agreements,
- 6.5 State Trading: Forms, Objectives, Merits, Disadvantages

Module 7 : International Financial Institutions

- 7.1 Theory of short term capital movements and East-Asian crisis and lessons for developing countries,
- 7.2 International trade and financial institutions- Functions of GATT / WTO (TRIPS and TRIMS),
- 7.3 UNCTAD, IMF, World Bank and Asian Development Bank – Their Achievements and failures,
- 7.4 WTO and World Bank from the point of view of India.

Module 8: Trade Policies in India

- 8.1 Recent changes in the direction and compositions of trade and their implication,

- 8.2 Rationale and impact of trade reforms since 1991 on balance of payments, employment and growth.
- 8.3 Problems on India's international, debt,
- 8.4 Working and regulations of MNC's in India.
- 8.5 Instruments of export promotion and recent import and export policies.

Books Recommended :

- 1 Aggarwal M.R. (1979), Regional Economic Cooperation in South Asia, S.Chand and Co., New Delhi.
- 2 Bhagwati, J. (Ed) (1981), International Trade: Selected Readings, Cambridge University Press, Massachusetts.
- 3 Brahmaananda, P.R. (1982). The IMF Loan and India's Economic Future, Himalaya Publishing, Mumbai
- 4 Carbough, R.J. (1992), International Economics, International Thompson Publishing, New York.
- 5 Chancnolides, M,(1990), International Trade: Theory and Policy, McGraw are Kogakisha, Japan.
- 6 Dana, M.S. (2000), International Economics : Study, Guide and Work Book, (5th Edition), Routledge Publishers, London.
- 7 Dene, M.S. (2000), International Economics ; Study, Guide and Work for (5th Edition), Routtedga publishers, London.
- 8 JagdishBhagwati and ArvindPanagariya and T N Srinivasan, *Lectures on International Trade* 2nd edition, (oxford University Press), 2003
- 9 King, P.G. (1995), International Economics and International Economic century A Reader, McGraw Hill International, Singapore.
- 10 Kruman P.G. and &Obsetted (1994), International Economics; Theory the policy, Green New Foresman.
- 11 Man Mohan Singh : India's Export Trends and the prospects for self-sustained Growth, Oxford University Press, New Delhi.
- 12 Mithani D.M. (1997), International Economics, Himalaya publishing House, Mumbai
- 13 Nayyar, D. : India's Exports and Export Policies in the 1960's Cambridge University Press
- 14 Panchamukhi, V.R. : Trade Policies of India - A Quantitative Analysis, Concept Publishing Company, New Delhi.
- 15 Vaish, M. C. and Sudama Singh (1980): International Economics, (3rd Edition), Oxford and IBH Publication, New Delhi.

M.A. Part – II Semester - IV Compulsory Paper

EC – 10 :Research Methodology - II

Module 5. Processing and Analysis of Data:

- 5.1 Classification of Data : Meaning , Functions , Rules & Bases, Frequency Distribution, Grouped and Ungrouped, Discrete and Continuous.
- 5.2. Cumulative Frequency Distribution: Less than and More than type.
- 5.3 Tabulation of Data: Meaning , Importance & Parts of table, Requisites of a Good Table, Types of Tabulation.
- 5.4 Quantitative, Qualitative Geographical & Chronological, Simple & Complex Tables.
- 5.5 Representation of Data: Types & Choice.
- 5.6 Statistical Analysis of Data and Interpretation and generalisation.

Module6. Processing, Analysis and Data Data Sources:

- 6.1 Measures of Central Tendency, Measures of Dispersion and Skewness – Simple and multiple Regression Analysis.

- 6.2 Use of Computer in Data analysis and presentation.
- 6.3 C.S.O., National Sample Surveys, National Accounts Statistics, Indian Public Finance Statistics, R.B.I. publications, C.M.I.E. data bases,
- 6.4 Annual Survey of Industries, Census and other government publications, major International Data Sources.

Module7. Testing of Hypotheses and Samples

- 7.1 Procedure for Hypotheses Testing,
- 7.2 use of Statistical Techniques for testing of Hypotheses,
- 7.3 Sampling Distribution, Sampling or Determining size of the sample,
- 7.4 Confidence level.

Module8. Presentation of Information and Writing of a Research Report

- 8.1 Language, Analysis and interpretation of Data, Presentation of Data (Tables, Graphs, Graphics etc.) –
- 8.2 Use of Computer for artistic and meaningful presentation –
- 8.3 Findings and interfaces – important of implementation of those findings –
- 8.4 Use of report for further research.

Books Recommended :

- 1 Allen, R.G.D. (1974) Mathematical Analysis for Economists, Macmillan Press, London
- 2 Gosh B.N.– Scientific Method and Social Research – Sterling Publishers (P) Ltd., 1992.
- 3 Gupta S.C. and V.K. Kapoor (1993) Fundamentals of Applied Statistics, S.Chand and Sons
- 4 Kothari- C.R. Research Methodology, Methods and Techniques – Willey Eastern Ltd., 1988.
- 5 Krishnaswmy, O.R. and Ranganathan, M. (2005) Methodology of Research in Social Research
- 6 Lundberg, George A. : Social Research, Long mans, Green and Co., New Delhi
- 7 Nachmias David & Nachmias Chava, (1981), Research Methods in the Social Sciences, New York, St.
- 8 Ranjeet Kumar (2008) : Research Methodology: A Step by Step Guide for Researchers.
- 9 Sadhu A.N. and Amarjit Singh, Research Methodology and Social sciences – Himalaya Publishing
- 10 Sharma, B A V and others (Ed) (1984) “Research Methods in Social Sciences” Sterling
- 11 Thanulingom, N. (2000), “Research Methodology” Himalaya Publishing House
- 12 Wilkinson & Bhandarkar: Methodology and Techniques of Social Research
- 13 Young, P.V. : Scientific Social Surveys and Research

M.A. Part – II : Semester - IV Optional Paper – Group :F

OP – 24 : Financial Institutions and Markets - II

Module 5 : Structure of Interest Rates:

- 5.1 Theories of Interest rate determination - level of interest rates - long period and short period rates
- 5.2 Term structure of Interest rates-Spread between lending and deposit rates
- 5.3 Administered interest rates

5.4 Appropriate interest rate policy.

Module 6 : Financial Markets in India :

6.1 Role and Structure of Money Market

6.2 Features of Indian money market, defects and measures to correct them.

6.3 Capital Market - Call Money Market, Treasury Bill Market, Commercial Bill Market including commercial paper and certificate

6.4 Role of SEBI (Securities and Exchange Board of India) and

6.5 IRDA (Insurance Regulatory Development Authority)

Module 7 :Non Banking Financial Institutions

7.1 Non-banking financial institutions: Nature, Significance, types and performance, Regulations in India.

7.2 Functions of Small Saving and Provident Funds.

7.3 Performances of General & Life Insurance company, Mutual Funds.

7.4 Role& working of IFCI, ICICI, IDBI, EXIM bank, SIDBI, SFC's.

Module 8: International Financial Market:

8.1 Nature, organization and participants, Exchange rates, devaluation and depreciation

8.2 Working of floating exchange rates since 1991,

8.3 International Financial flows, forms and volume,

8.4 Reforms in International monetary system for developing countries

8.5 Lending operation of World Bank and its affiliates,

8.6 Asian development bank and its lending activities,

Books Recommended :

- 1 BharatiPathak (2009) The Indian Financial System : Pearson Education Publication New Delhi
- 2 Bhattacharaya, B.B., Financial Reforms and Financial Development in India, Institute of Management Technology, New Delhi
- 3 Bhole, L.M. (2008), Financial Institutions and Markets; Tata McGraw Hill Company Ltd., New York.
- 4 Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
- 5 Desai Vasant, Money and Central Banking, Himalaya House, Mumbai.
- 6 Edminister, R.O. (1986), Financial Institutions, Markets and Managements, McGraw Hill, New Delhi
- 7 Ghosh B.N. and Ghosh Rama, Fundamentals of Monetary Economics, Himalaya Publishing House, Mumbai.
- 8 Gupta, S.B., Monetary Economics, Institutions, Theory and Policy, S.Chand& Co., New Delhi.
- 9 Hanson, J.A. and S. Kathuria (Eds.) (1999), India : A Financial Sector for the Twenty-first Century, Oxford University, Press, New Delhi.
- 10 Harker, P.T. and A.Tenias (2000) (Ed) Performance of Financial Institutions, Cambridge University Press, Cambridge.
- 11 Johnson, H.S.(1993), Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
- 12 Khan, M.Y. (1996), Indian financial System, Tata McGraw Hill, New Delhi.
- 13 MachiRaju, M.R. (1999), Indian Financial Systems, Vikas Publishing, New Delhi.
- 14 Prasad, K.N. (2001), Development & India's Financial Systems, sarup& Sons, New Delhi.
- 15 RBI Report of the Working Group on Foreign exchange Market in India, (Sodhani Group) Mumbai
- 16 Shekhar, S.L.N., Modern Banking, Monetary Policy and Finance, Deep and Deep Publications, New Delhi.
- 17 Srivastava R.M. and Divya Nigam 2001– Management of Indian Financial Institutions, Oxford University Press, New Delhi.

M.A. Part – II : Semester - IV
Optional Paper – Group :F

OP – 25 : Economics of Marketing

Module 1 Introduction to Marketing:

- 1.1 Meaning of Market and Marketing-Goals or objective of Marketing-
- 1.2 Marketing functions.
- 1.3 Marketing Management: Meaning, philosophies: production, product, selling and marketing concept.
- 1.4 Marketing planning – Marketing Environment-
- 1.5 Market Segmentation-Consumer Behaviour: Types of buying situations, participants factors, buying process.

Module 2 : Marketing Mix:

- 2.1 Concepts, components: Product mix, price mix, promotion mix and place mix.
- 2.2 Product: Meaning, product planning, product positioning,
- 2.3 New product development - product life cycle-
- 2.4 Branding- Packaging- Labeling- Pricing: pricing objectives- Factors- Methods and procedures.

Module 3 : Advertising and Sales Promotion:

- 3.1 Meaning of promotion mix-Components of promotion mix-
- 3.2 Advertising: Message, advertisement budgeting-Sales promotion, personal selling and publicity.
- 3.3 Purpose and scope of Advertising - Major decisions on advertising –
- 3.4 Choice of Media - Advertising Budget, Sales Promotion measures – AIDAS formula 3.5 Sales Force - Task of Salesman - Size of Sales Force - Recruiting - Training - Motivation
- 3.6 Evaluation of sales force.

Module 4 : Distribution:

- 4.1 Channels of Distribution-Need, functions, types, evaluating the channel alternatives
- 4.2 Physical Distribution: Objectives, order processing, transport, storages and warehousing, inventory control.
- 4.3 Competitive marketing Strategies: Leaders – Challengers – Followers – Nichers
- 4.4 Marketing control: Meaning, types, steps essentials of effective marketing control
- 4.5 Marketing & Society:
- 4.6 Consumer protection: Needs , Methods of consumer protection , Consumer protection in India.

Books Recommended :

- 1 Cravens., Marketing Management (Irvin Publishers, 1988)
- 2 Joseph P. Guiltiman., Marketing Management (New York: McGraw Hill Co 1997)

- 3 Malhotra., Marketing Management (Amol Publication 1997)
- 4 Neelamegam., Marketing Management and the Indian Economy (New Delhi: VikasPublilhers 1970).
- 5 Philip Kotler., 'Marketing Management (New Delhi: Prentice Hall 1988)
- 6 Philip Kotler: : Principles of Marketing-Prentice of India Private Limited. New Delhi
- 7 Pillai and Bhagavathi., Marketing Management (New Delhi: Chand & Co 1999)
- 8 Davar R.S.: Modern Marketing Management – Progressive Corporation, Bombay.
- 9 Rajan Nair., Marketing Management (New Delhi: Chand & Co 1993)
- 10 Rustom, S.Davar., Modern Marketing Management (New Delhi: Progressive Corporation 1982)
- 11 Jha S.M.& : Marketing Management in Indian
- 12 Singh S.P.Perspective - Himalaya Publishing House. Delhi.
- 13 Stanton., Fundamental of Marketing (New York: McGraw Hill 1987)

M.A. Part – II : Semester - III Optional Paper – Group : F

OP – 26 :Rural Development

Module 1: Nature and Scope of Rural Development

- 1.1 Need for Rural Development; Concept, Objectives and Indicators of Rural Development;
- 1.2 Characteristics of Rural Economy- Rural-Urban Linkages and Disparity.
- 1.3 Importance and objective of Rural Development, Role of NGO.
- 1.4 Rural Economy of India: size and structure of Rural Economy
- 1.5 The characteristics of the Rural Sector
- 1.6 Role of Agricultural and Allied Sector
- 1.7 Role of the Non-Agricultural sub-sector –Nature of changes since Independence – Challenges and opportunities.

Module 2: Poverty and Unemployment in Rural India

- 2.1 Rural Poverty- Concept, Measurement, Extent,
- 2.2 Regional Pattern and Causes of Poverty;
- 2.3 Rural Unemployment- Concept, Measurement and Types of Unemployment;
- 2.4 Extent, Regional Pattern and Causes of Unemployment;
- 2.5 Review of Poverty Alleviation and Employment Generation Programmes in India.
- 2.6 Employment Generation Programmes - IRDP- DWCRA- NREP- TRYSEM

Module 3: Diversification of Rural Economy

- 3.1 Growth of Agriculture and Rural Development in India;
- 3.2 Diversification of Agriculture-Dairy Farming, Fishery, and Farm Forestry;
- 3.3 Rural Non-Agricultural Employment in India- Importance, Growth, Regional Pattern and Determinants;
- 3.4 Rural Industrialisation- Importance, Programmes,
- 3.5 Progress and Problems of Small- Scale and Cottage Industries and Remedial Measures.

Module 4: Financing Rural Development:

- 4.1 Rural Financial structure - Rural money markets –
- 4.2 Role of Co-operatives - Commercial Banks and RRBs - Rural Indebtedness –
- 4.3 Financial Sector Reforms - Role of Rural Marketing -irrigation in Rural Development.
- 4.4 The Role of Non-institutional Agencies –Deficit Financing and Controlled Inflation

- 4.5 Foreign Sources of Funds –The Role of Foreign Investment –The Role of Foreign Aid.
4.6 Working of RRBs and its role in Rural Development

Books Recommended :

- 1 AftabUddin Ahmed and KanakkantiBagchi – Adoption of New Technology and Agricultural Development (Abhijeet Publications , New Delhi)
- 2 Bhalla G. S. (1994) Economic Liberalization and Indian Agriculture (Ed) Institute for Studies in Industrial Development, New Delhi.
- 3 Datt ,Sundaram - Indian Economy , S.Chand and Company, New Delhi.
- 4 Desai, Vasant - Study of Rural Economics, Himalaya Publishing Company, New Delhi.
- 5 Gagam Kumar Singh - Administration for Rural Development Programme in India, (Abhijeet Publications, New Delhi)
- 6 KanakKantiBagchi – Employment and Poverty Alleviation Programmes in India – An Appraisal (2 vols) (Abhijeet Publications, New Delhi)
- 7 Mishra Puri – Indian Economy, Himayala Publishing House, Mumbai.
- 8 SanatanNayak – Irrigation and Economic Development (Abhijeet Publications, New Delhi)
- 9 Shakuntala Devi – Rural Credit and Agricultural Development, Scrap & Sons, New Delhi 1996.

M.A. Part – II : Semester - IV
Optional Paper – Group :F

OP – 27 :Mathematical Economics - II

Module 5 :Price and Output Determination

- 5.1 Perfect competition
- 5.2 Monopoly
- 5.3 Monopolistic competition
- 5.4 Oligopoly Duopoly, Monopsony and bilateral monopoly,
- 5.5 Marshallian and Walrasian equilibrium conditions

Module 6 : Growth Models

- 6.1 Harrod-Domar Model and its stability
- 6.2 Solow and Meade Growth models : Basic neo-classical growth model; Golden ageproblem; Technical progress and stability of neo-classical models.
- 6.3 Optimal growth and golden rule of capital accumulation.
- 6.4 Endogenous growth model.

Module 7 : Input-Output Analysis

- 7.1 Static open and closed models, viability conditions;
- 7.2 Activity analysis interpretationof input-output model;
- 7.3 Aggregation problem; Substitution theorem; Cost and price determination;
- 7.4 DynamicLeontief system. Input outputanalysis – Open and closed systems.

Module 8 : Linear Programming and Game Theory

- 8.1 Primal and dual problem, Simplex method;
- 8.2 Activity analysis interpretation of a linear program;
- 8.3 Simplex and the revisedsimplex method;
- 8.4 Dual and its economic interpretation; Complimentary slackness conditions; Dualitytheorems;
- 8.5 Applications of linear programming in economics.

- 8.6 Two person zero sum non co-operant game, pure and mixed strategies;
- 8.7 linear programming formulation of a matrix game;
- 8.8 Methods of solving a game problem; Fair game and conversion of linear programming problem into a game problem.
- 8.9 Introduction to non-constant sum games; Prisoner's dilemma.

Books Recommended :

- 1 Agarwal H.S. – Mathematical Approach to Economic Theory.
- 2 Alien, R.G.D., Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
- 3 Allen, R.G.D. (1974), Mathematical Analysis for Economic, Macmillan Press and ELBS, London.
- 4 Arrow, K.J. and M. Intrilligator (Eds.) (1982), Handbook of Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.
- 5 Barry Bressler: A unified Introduction to Mathematical Economics McGraw Hill New Delhi.
- 6 Black J. and J.F. Bradley: Essential Mathematics for Economists. John Wiley and Sons. London.
- 7 Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
- 8 Edward T. Dowling, Introduction to Mathematical Economics: Schaum's Outline Series Tata McGraw Hill, New Delhi.
- 9 Ferguson, C.E., Neo-classical Theory of Production and Distribution.
- 10 Hadley, G., Linear Programming, Addison Wesley Publishing Co., Massachusetts.
- 11 Handry, A.T., Operations Research, Prentice Hall of India, New Delhi.
- 12 Heijdra, B.J. and V.P. Fredericck, Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- 13 Henderson, J.M. and R.E. Quandt (1980), Micro Economic Theory: A Mathematical Approach, Mc. Graw Hill, New Delhi.
- 14 Hiller, F.S. and G. J. Lieberman (1985), Operations Research, C.B.S., New Delhi.
- 15 Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- 16 Monga G.S., Mathematics and statistics for Economists. Vikas Publishing House, New Delhi.
- 17 New Delhi.
- 18 Taha, H.A., Operations Research : An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
- 19 Veerachamy R. (2002): Quantitative Methods for Economists. New Age International Publishers, Bangalore.
- 20 Yamane, Taro, Mathematics for Economists, Prentice Hall of India New Delhi.

**M.A. Part – II : Semester - IV
Optional Paper – Group :F**

OP – 28 :Computer Application in Economic Analysis

Module 1: Introduction to Computers

- 1.1 Meaning, Characteristics, types and evolution of computers-
- 1.2 Components of a computer, Basic components of computer – Input-output devices : CPU, keyboard, mouse & Scanner, video display, printers and plotters, data storage and retrieval, hard disk, Floppy disk and CD ROM;

1.3 Hardware, software and firmware.

Module 2: Introduction to Operating System

2.1 Operating System-Microsoft Disk Operating Systems(MS DOS),

2.2 Operating System-salient Features-

2.3 Merits of Windows Operating System, My Documents-My computer-Internal Explorer-Network Neighbourhood.

2.4 Features and facilities in MS-Word, MS-Excel, MS-PowerPoint.

Module 3: Statistical Analysis of Data

3.1 Data: Meaning, types and sources of data,

3.1 Data Base Management Systems (DBMS), Relational Database Management System (RDBMS),

3.3 Use of software packages in analyzing data, obtaining results and presenting them in meaningful and interpretable forms.

3.4 Statistical Package for Social Sciences.

Module 4 : Application in Finance & Economics and Internet.

4.1 On line Banking: ATM's Electronic stock exchange,

4.2 Electronic trading, Datasharing and decimation, Electronic trading –B2B, B2C and C2C.4.3 Introduction to Internet. Application of Internet (WWW, E-mail),

4.4 Use of Internet in Research.

Books Recommended :

- 1 AtulKahate, Information Technology and Numerical Methods, Tata McGraw Hill, New Delhi, 2003.
- 2 Dass and Singh (2006): Introduction to Computers, Shree Publishers and Distributors, New Delhi.
- 3 Garden B.Davis, Computer data processing, Tata Mc.Grawa Hill Publishing Co., Ltd., New Delhi.
- 4 James Senn, Analysis and Design of information systems, Tata McGraw Hill Publishing Co., New Delhi.
- 5 Kalicharan, Noel: Introduction to Computers, Cambridge University Press.
- 6 Kathuinemurray, BPB Publications, Mastering PowerPoint 4 for Windows.
- 7 Lipschultz. M.M. and L.Lipschultz (1982): Theory and Problems of Data Processing, Schaum's Outline Series, Tata McGraw Hill, New York.
- 8 Norton Peter: Introduction to Computers, Tata McGraw Hill, New York.
- 9 Rajaraman, V. (1996), Fundamentals of Computers, prentice Hall of Indian, New Delhi.
- 10 Sanders, D.H. (1988): computers Today, McGraw Hill, New York.
- 11 Saxena, Sanjay: A First Course in Computers, Prentice hall of India, New Delhi
- 12 Sinha P.K. (1992), Computer Fundamentals, BPB Publications, New Delhi.
- 13 Sudalaimuthu and Anthony Raj(2010), 'Computer Application in Business', Himalaya Publishing House, Bangalore

M.A. Part – II : Semester - IV Optional Paper – Group :F OP – 29 : Indian Economic Policy – II

Module 5 : The Industrial Sector:

5.1 Industrial policy; Public Sector enterprises and their performance;

- 5.2 Problems of sick units in India; Privatisation and disinvestment debate;
- 5.3 Growth and pattern of industrialization; Small-scale sector;
- 5.4 Productivity in industrial sector; issues in labour market reforms;
- 5.5 Approaches for employment generation.

Module 6: Economic Reforms

- 6.1 Rationale of internal and extent reforms;
- 6.2 Globalisation of Indian economy;
- 6.3 W.T.O. and its impact on the different sectors of the economy;
- 6.4 Need for and issues in good governance;
- 6.5 Issues in competition and safety nets in Indian economy.

Module 7: External Sector:

- 7.1 Structure and direction of foreign trade;
- 7.2 Balance of payments;
- 7.3 Issues in export-Import policy and FEMA;
- 7.4 Exchange rate policy; Foreign capital and MNCs in India;
- 7.5 The progress of trade reforms in India.

Module 8 : Financial Sector :

- 8.1 Commercial Banking System, Money and Capital Markets,
- 8.2 Non-Banking Financial Intermediaries;
- 8.3 Price trends in India, Monetary Policy of RBI
- 8.4 Banking Sector Reforms, Working of SEBI in India,
- 8.5 Fiscal sector reforms in India.

Books Recommended :

- 1 Agarawal A.N. (2006): Indian Economy: Problems of Development and Planning (2006): A Division of New Age International (P) : Limited, New Delhi.
- 2 Ahluwalia, I.J. and I.M.D. Little (Eds) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- 3 Bardhan, P.K. (9th edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- 4 Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
- 5 Bhargava, P. K. (1991), India's Fiscal Crisis, Ashish Publishing House, New Delhi.
- 6 Bhole, L. M. (2000), Indian Financial System, Ghugh Publications, Allahabad.
- 7 Brahmananda, PR. And V.R.Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-state Perspectives, Book well, Delhi.
- 8 C.Rangarajan, (2000), Perspectives on Indian Economy -A Collection of Essays, UBSPD publishers Distributors Ltd., New Delhi.
- 9 Dantwala, M.L. (1996), Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.
- 10 Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
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- 15 HanumanthaRao C.H. and H.Linnemann (Eds)(1996): Economic Reforms and Poverty Alleviation in India Sage, New Delhi.
- 16 Misra S.K. &Puri, V.K.(2001), Indian Economy, Himalaya Publication House, Mumbai.
- 17 MisraS.K.andV.K.Puri, (latest): Indian Economy, Himalaya, Publishing house, Mumbai.

- 18 Mookherjee, d. (Ed.) (1997), Indian Industry : Policies and Performance, Oxford University Press, New Delhi.
- 19 Mundle, s. (1999), Public Finance : Policy Issues for India, Oxford University Press, New Delhi.
- 20 Sandesara, J.C. (1992), Industrial Policy and Planning, 1947-1991: Tendencies, Interpretations and Issues, Sage Publications, New Delhi.
- 21 Sen, R.K. and B.Chatterjee (2001), Indian Economy : Agenda for 21st Century (Essays in honour of Prof.P.P.Brahmananda), Deep & Deep Publications, New Delhi.
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- 23 Swamy, D. s. (1994), The Political Economy of Industrialization : from Self reliance to Globalization, Sage Publications, New Delhi.
- 24 Uma Kapila (2006): Indian Economy-Since Independence-17th Edition, Academic Foundation, New Delhi.

M.A. Part – II : Semester - IV

Optional Paper – Group : F

OP 30 : Economics of Insurance

Module 1: Introduction:

Economic Security; Human quest for economic security through time, exposure to losses; Role of insurance; Definition of insurance. Risk pooling and risk transfer; Economic and legal perspectives; Social Vs Private insurance; Life Vs Non-life Insurance.

Module 2: Risk and Risk Management

Fundamentals of uncertainty and risk; Pure risk and speculative risk; Expected utility and decision making under uncertainty; Expected utility and the demand for insurance, Concept of risk management; Essentials of risk management; Elements of risk management, Risk assessment; Risk control and risk financing.

Module 3: Insurance and Economic Development

Risk management and insurance in economic development, Insurance institutions as financial intermediaries, Insurance institutions as investment institutions, insurance institutions in Indian capital market. Regulations Governing investments of Insurance Institutions in India; Role of Insurance Regulation and Development Authority. (IRDA)

Module 4 : Essentials of Life, Health and General Insurance

Fundamentals of Life; Health and General Insurance; Functions and importance of Life, Health and General Insurance; Types of general insurance; Importance of general insurance in economic development; Plans and legal aspects of life insurance; Provisions of policies, Selection and classification of risks, Group insurance and superannuating (pension) schemes; Set-up and management of insurance companies.

Reference Books:

- 1 Bhole, L.M. (1990) The Indian Financial System, Tata McGraw Hill, New Delhi.
- 2 Black, K.Jr. and H.D. Skipper Jr (2000): Life and Health Insurance Prentice Hall, Upper Saddle River New Jersey.
- 3 Dionne, G and S.E. Harrington (Eds) (1997): Foundations of Insurance Economics, Kluwer Academic Publishers, Boston.
- 4 Insurance Regulations and Development Authority (2001): IRDA Regulations, New Delhi.
- 5 Government of India (1998): Old age and Income security (OASIS) Report (Dave Committee

- Report) Government of India, New Delhi.
- 6 Hedad, G.L. and S. Horn II (1991), Essentials of Risk Management, Vol.1 Insurance Institute of America, Malvern, Pa.
 - 7 Benjamin, B. (1991), General Insurance, Heinemann, London.
 - 8 Drofman, M.S. (1994), Risk and Insurance, Prentice Hall, Englewood-Cliffs.
 - 9 Insurance Institute of India, General Insurance (IC-34), Mumbai.
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