

**DEPARTMENT OF ECONOMICS**  
**M.A ECONOMICS SYLLABUS**  
(Choice Based Credit System)  
**W.E.F 2020-21ACADEMIC YEAR**

**M.A. PREVIOUS SEMESTER-I**

SL.NO	SEMESTER	CORE/NON-CORE	TITLE OF THE PAPER	CREDITS	HOURS PW
1.	I	CORE	101-MICRO ECONOMICS-I	5	5
2	I	CORE	102-MACRO ECONOMICS-I	5	5
3	I	CORE	103-QUANTATIVE METHODS-I	5	5
		ELECTIVES			
4.	I	NON-CORE	104-(A) AGRICULTURE ECONOMICS-I	4	4
5	I	NON-CORE	104- (B) COMPUTER APPLICATIONS FOR ECONOMICS-I	4	4
6	I	NON-CORE	105-(A) ENVIRONMENT ECONOMICS-I	4	4
7	I	NON-CORE	105-(B) GENDER ECONOMICS-I	4	4
8	I	NON-CORE	105-( C ) FINANCIAL ECONOMICS-I	4	4
9	I	SEMINAR	SEMINAR-I	2	2
			Total		25

**M.A. PREVIOUS SEMESTER-II**

SL.NO	SEMESTER	CORE/NON-CORE	TITLE OF THE PAPER	CREDITS	HOURS PW
1.	II	CORE	201-MICRO ECONOMICS-II	5	5
2	II	CORE	202-MACRO ECONOMICS-II	5	5
3	II	CORE	203-QUANTATIVE METHODS-II	5	5
		ELECTIVES	ELECTIVE PAPERS		
4.	II	NON-CORE	204-(A) AGRICULTURE ECONOMICS-II	4	4
5	II	NON-CORE	204- (B) COMPUTER APPLICATIONS FOR ECONOMICS-II	4	4
6	II	NON-CORE	205-(A) ENVIRONMENT ECONOMICS-II	4	4
7	II	NON-CORE	205- (B) GENDER ECONOMICS-II	4	4
8	II	NON-CORE	205- ( C ) FINANCIAL ECONOMICS-II	4	4
9	II	SEMINAR	SEMINAR-II	2	2
			Total		25

Prof. J. Narasimha Rao  
Chairperson BOS

**M.A. Economics Syllabus**  
**Choice Based Credit System- w.e.f.2020-21**  
**Osmania University, Hyderabad, TS**  
**M.A. FINAL SEMESTER-III**

SL.NO	SEMESTER	CORE/NON-CORE	TITLE OF THE PAPER	CREDITS	HOURS PW
1.	III	CORE	301- ECONOMICS OF GROWTH AND DEVELOPMENT-I	5	5
2	III	CORE	302- INTERNATIONAL ECONOMICS-I	5	5
3	III	CORE	303-PUBLIC ECONOMICS-I	5	5
		ELECTIVES	ELECTIVE PAPERS		
4.	III	NON-CORE	304-(A) INDUSTRIAL ECONOMICS-I	4	4
5	III	NON-CORE	304- (B) ECONOMETRICS-I	4	4
6	III	NON-CORE	305- (A) RESEARCH METHODOLOGY	4	4
7	III	NON-CORE	305-(B) DEMOGRAPHY-I	4	4
	III	NON-CORE	305-(C) RURAL DEVELOPMENT-I	4	4
8	III	SEMINAR	SEMINAR-I	2	2
			Total		25

**M.A FINAL SEMESTER-IV**

SL.NO	SEMESTER	CORE/ NON-CORE	TITLE OF THE PAPER	CREDITS	HOURS PW
1.	IV	CORE	401-INDIAN ECONOMY-II	5	5
2	IV	CORE	402-INTERNATIONAL ECONOMICS-II	5	5
3	IV	CORE	403-PUBLIC ECONOMICS-II	5	5
	IV	ELECTIVES	ELECTIVE PAPER		
4.	IV	NON-CORE	404-(A) INDUSTRIAL ECONOMICS-II	4	4
5	IV	NON-CORE	404- (B) ECONOMETRICS-II	4	4
6	IV	NON-CORE	405-(A) TELANGANA ECONOMY OR PROJECT	4	4
7	IV	NON-CORE	405- (B) ECONOMICS OF GLOBALIZATION 405-(C ) RURAL DEVELOPMENT	4	4
8	IV	SEMINAR	SEMINAR-II	2	2
			Total		25

Prof. J. Narasimha Rao  
Chairperson BOS

M.A. PREVIOUS  
M.A.ECONOMICS, SEMESTER – I  
(CORE PAPER)  
ECO – 101, MICRO ECONOMICS – I

Module 1: Advanced Consumer Theory: Income and Substitution Effects (Slutsky and Hicks), Consumer surplus – implications. Revealed Preference Analysis, Hicksian Revision of Demand Theory.

Module 2: Production Theory: Isoquant Production Function; Returns to Scale; Linear Homogeneous Production function – Cobb Douglas production function, Hicks and Harrod Technical Progress. Cost Functions – short run and long run costs.

Module 3: Market Structure-I: Features of perfect competition. Determination of Market price and quantity, Short Run and Long run equilibrium of the firm and industry, Derivation of Supply curve, Monopoly: Short and long run equilibrium, Price discrimination.

Module 4: Market Structure II: Monopoly power, Control and regulation of monopoly. Monopsony, Bilateral Monopoly; Chamberlain's Monopolistic Competition – Short and Long run equilibrium.

Module 5: Imperfect Competition II: Duopoly Models: Cournot, Bertrand, Edgeworth and Stackelberg Models. Oligopoly: Characteristics, Sweezy's kinked Demand model, Models of cartels and price leadership.

**BASIC READING LIST:**

1. Koutsoyiannis, A: *Modern Microeconomics*, Macmillan
2. Ahuja: *Advanced Economic Theory*,
3. Pindyck, R.S. and D.L.Rubinfeld: *Microeconomics*, Pearson Educational
4. Crystal, R. and A. Lipsey: *Microeconomics*, Oxford University Press.
5. Varian, H.R.: *Intermediate Microeconomics*, W.W. Norton & Co
6. Krugman, Paul Wells, Robin *Microeconomics*, Worth Publishers W H FREEMAN & CO

M.A.ECONOMICS, SEMESTER – I  
(CORE PAPER)  
ECO – 102, MACRO ECONOMICS – I

Module 1: National Income Accounting: Approaches of Macro Economics and Variables – Circular Flow of Income in two, three and four-sector economy; different forms of national income accounting – social accounting method.

Module 2: Consumption Function: Consumption function – Keynes psychological law of consumption – implication of the law; short-run and long-run consumption function; Empirical evidence on consumption function; income – consumption relationship – absolute income, relative income, permanent and life cycle income hypotheses.

Module 3: Investment Function: Marginal efficiency of capital and investment. The accelerator, profit and theories and investment. Financial theory of investment Institutions and capital market in India. Primary and secondary markets and regulation of capital markets

Module 4: Supply of Money: Measures of Money Supply, theories of money supply, monetary transmission mechanism and monetary transmission mechanism in India, High powered money and money multiplier; monetary policy.

Module 5: Demand for Money and Investment Determination: Theories of demand for money – Classical approach to demand for money – Quantity theory approach, Cambridge quantity theory, Keynes liquidity preference approach, modern theory of interest rate determination.

**BASIC READING LIST:**

1. Renerm D.L. (1996) Advanced Macro Economics, McGraw Hill Company Limited, New York.
2. Scarfe, B.L. (1977), Cycles Growth and Inflation, McGraw Hill, New York.
3. Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
4. Edey, M and A.T.Peacock (1967), National Income and Social Accounts, Hutchinson University Library, London.
5. Powelson, J.P. (1960), National Income and Flow of Funds Analysis, McGraw Hill, New York.
6. Rao, V.K.R.V. (1983), India's National Income: 1950 to 1980, sage Publications, New Delhi.
7. Ruggles, R.and N.Ruggles (1956), National Income Accounts and Income Analysis, McGraw Hill, New York
8. Duesenberry, J.S (1949), Income, Saving and the Theory of Consumer Behaviour. Harvard University Press, Harvard.
9. Friedman.M. (1957), The Theory of Consumption Function, Princeton University Press, Princeton.
10. Mueller, M.G. (1966), Readings in Macroeconomics, Holt Rinehart and Winston, New York

M.A.ECONOMICS, SEMESTER – I  
(CORE PAPER)  
ECO – 103, QUANTITATIVE METHODS – I

Module 1: Mathematics – 1: Uses and limitations of Mathematics in Economics, Concept of function and type of functions, Concepts of derivative, Rules of differentiation. Interpretation of revenue, Cost demand, supply functions, Elasticities.

Module 2: Mathematics – 2: Multivariable functions, Concept and types of production functions, rules of partial differentiation and interpretation of partial derivatives, Problems of maxima and minima in single and multivariable functions.

Module 3 : Statistics – 3: Definition of Statistics, Uses and limitation of Statistics in Economics, Methods of collecting data – census and sampling – their advantages and disadvantages, Measures of Central tendency – mean, median and mode, Measures of Dispersion – range, quartile deviation, mean deviation, standard deviation, variance, coefficient of variation, Gini coefficient.

Module 4: Statistics – 4: Concept of correlation, Karl Pearson's Coefficient of correlation, Spearman's rank coefficient of correlation, Simple regression, Estimation of regression coefficients by ordinary least square methods, standard error of regression line.

Module 5: Statistics – 5: Methods of constructing Index numbers and their uses, weighted and unweighed indices, Laspeyer's, Pasche's and Fisher's indices, Cost of living index numbers.

**BASIC READING LIST:**

1. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas publishing house, New Delhi.
2. Chiang, A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.
3. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millian Press and ELBS, London.
4. Dowling, E.T. (1992), Mathematical Economics 2<sup>nd</sup> Edition, Mac Graw Hill, New York.
5. Gupta, S.P. (2007), Statistical methods, Sultan Chand and Sons, New Delhi.
6. Nagar, A.L. and Das, R.K. (1983): Basic Statistics 2<sup>nd</sup> Edition, OUP, Delhi.
7. Speigal, M.R. (1992), Theory and Problems of Statistics, Mc Graw Hill Book Co., London.
8. Yamune, Taro (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.

M.A. ECONOMICS, SEMESTER – I  
(ELECTIVE PAPER)

ECO-104 (A) AGRICULTURAL ECONOMICS-I

Module 1 Agriculture and Economic Development: Nature and scope of agricultural and rural economics; Traditional agriculture and its modernization; Role of agriculture in economic development; Interdependence between agriculture and industry. Agricultural development, sources of rural credit in India

Module 2 Agricultural Production and Productivity: Agricultural production – Resource use and efficiency; Production function analyses in agriculture; Factor combination and resource substitution,

Module 3 Agricultural Farm size and productivity: relationship laws of returns – Supply response of individual crops, Technical change, and labour absorption in Agriculture

Module 4 Agricultural Marketing and Prices: Marketing and state policy; Agricultural markets; Regulated markets; Marketed and marketable surplus; Marketing channels, Price spread, Behavior of agricultural prices

Basic Reading List:

- Bhaduri, A. (1984) The Economic Structure of Backward Agriculture, Macmillan, Delhi.
- Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
- Dantwala M.L. Et al, (1991) Indian Agricultural Development since Independence, Oxford & IBH New Delhi.
- Gulati, A. and t. Kelly (1999), Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
- Joshi. P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publishers, Bombay.
- Kahlon, A.S. and Tyagi D S (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.
- Rao. C.H. Hanmantha (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
- Rudra, A (1982), Indian Agricultural Economics, Myths and Reality, Allied Publishers, New Delhi.
- Saini, G.R. (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers New Delhi.
- Upender, M. (1990), Marketable and Marketed Surplus in Agriculture, Mittal Publications, New Delhi.

M.A.ECONOMICS, SEMESTER –I  
(ELECTIVE PAPER)  
ECO-104 (B) COMPUTER APPLICATIONS -I

**Module-I Introduction to Computers**

Introduction to Computers – Classification of Digital Computer Systems – Anatomy of a Digital Computer - Generations of Computers – Memory Units – Input Devices – Output Devices – Auxiliary Storage Devices. Computer Hardware and Software – Operating Systems.

**Module-II Network and Internet**

Computer Networks: Types of networks – Network Topologies - Introduction to Internet - Internet Concepts - E-Mail - WWW Concepts - Web Browser- Search Engine - Finding websites for Recipes - How to applying for job using job web sites.

**Module-III MS Word**

Introduction to word - Formatting text and documents - Working with header and footers, foot notes – Tabs - Tables and Sorting – Introduction to Excel-Rearranging worksheets- Formatting Worksheets-Functions excel chart Features-Working with Functions-Statistical-Math- Financial Functions.

**Module-IV MS PowerPoint**

Power Point basics - editing text - Deleting slides - Working in outlines view - Using Design Templates - Adding Graphics - Adding organization Charts - Running Slide Show - Adding Special Effects.

**REFERENCES:**

1. “Fundamentals of Computer Science and Communication Engineering”. Alexix Leon, Mathew's Leon, Vikas Publishing House, New Delhi, 1998.
2. MS Office 2000 for everyone - Vikas publishing House Pvt. Ltd., Sanjay Saxena
3. Computer Fundamentals by P.K. Sinha, BPB Publications, Sixth edition
4. Fundamentals of Computers by Rajaraman V, Prentice Hall India Learning Private Limited; 5 edition (2010)
5. MS-Office by S.S. Shrivastava, Laxmi Publications; First edition (2015)
6. Introduction to the Internet by Van Nostrand Reinhold Company India, New Century Publications, Delhi.

M.A.ECONOMICS, SEMESTER –I  
(ELECTIVE PAPER)  
ECO-105 (A) ENVIRONMENTAL ECONOMICS-I

**ECO-105 (A) ENVIRONMENTAL ECONOMICS-I**

**Module 1: Meaning & definition of Environment Economics:**

Definition of Environmental Economics, Scope of Environmental economics, Nature and significance of Environmental economics, Relationship between Economics and Environment- Flow chart, Functions of the Environment. Market failure and Externality.

**Module 2: Environment and Economics**

Environment and Economics- Inter linkage- Environment as a public good-Environment vs. Economic growth- Population and Environment linkage- Environmental use as an allocate problem- Valuation of Environmental damages: land, water, air and forest.

**Module 3: Theories of Environmental Economics:**

Building's Spaceship Earth. Hardin's Tragedy of the Commons, Club of Rome Model, Schumacher's Small is Beautiful, Daly's Steady State Economics. Input-Output Models of the Environment.

**Module 4: Theories of Natural Resource Management:**

Material Balance and Entropy Law. Hostelling's Theory of Exhaustible Resources. Dasgupta and Heal, Optimal Depletion of Renewable Resources. Carrying Capacity of the Environment. Sustainable Development.

**Basic Reading List**

1. Baumol, W.J. and W.E.Oates(1988), The Theory of Environmental Policy (2nd Edition) CUP, Cambridge.
2. Bhattacharya, R.N. ed. (2001): Environmental Economics, An Indian Perspective, Oxford University Press, New Delhi.
3. Hanley, N.J.F.Shogren and B.White (1997) Environmental Economics in Theory and Practice. Macmillan.
4. Jarret H. ed. Environmental Quality in a Growing Economy, John Hopkins Press, Baltimore.
5. Kalpagam, (1998): Environmental Economics, Sterling Press.
6. Kolstrad, C.D. (1999): Environmental Economics, Oxford University Press, New Delhi.
7. Mehta, S, S. Mundle, and U.Sankar (1995): Controlling Pollution: Incentives and Regulation, Sage, New Delhi.
8. Murthy, M.N., A. James and S.Misra (1999): The Economics of Water Pollution in India. Oxford University Press, New Delhi.
9. Pearce, D.W and R. Turner (1991): Economics of Natural Resource Use and Environment. John Hopkins Press, Baltimore.
10. Rao, O.K. (2000): Sustainable Development, Economics and Policy, Blackwell Publishers, UK.



M.A.ECONOMICS, SEMESTER –I  
(ELECTIVE PAPER)  
ECO-105 (B) GENDER ECONOMICS-I

**Module 1 Introduction to Gender Economics:** Need and Importance of Gender Economics, women in patriarchal and matriarchal societies, and relevance and scope of Gender Economics. Demography of female population- Age Structure, mortality rates and sex ratios- Causes of declining sex ratio and fertility rate in LDCs particularly in India.

**Module 2 Concepts and Theoretical approaches in Gender Economics:** Difference between Gender and sex, Concept of gender economics- Gender Issues in Economic Theory, Gender division of work, approaches of women in development (WID), women and development (WAD) and Gender and development (GAD).

**Module -3 Gender and Development**

WID Approaches- Welfare, equity, anti-poverty efficiency and employment, Gender planning frameworks and tools, Gender inequality indices: GII, MPI, WEIA, SIGI, GDI, GEM. Gender inequalities in India: Towards equality and shramshakti.

**Module 4. Women and Work**

Women and work discrimination in the Labour market, concept of head of household, concept of valuation of productive and unproductive work, visible and invisible work, paid and unpaid work, contribution to national income and Indian economy.

References:

1. Bosarup Ester (1970): Women's Role in Economic Development, George Allen and Unwin London.
2. Amsden A. H (ED) (1980): The Economics of women and work penguin harmen-----
3. Seth. M (2000): Women and Development.
4. Krishanraj M.R, M.Sudarshan and A. Shariff(1999): Gender, Population and Development.
5. Nussbaum (2001): Women and Human Development: The Capabilities Approaches.
6. Agarwal Bina (1994): A Field at one's own gender and Land Rights in South Asia, Cambridge University, Press, New Delhi.
7. Natural Commission for women: Towards Equality the unfinished agenda status of women in India-2001, New Delhi (2002)
8. Wazir.R (2000): The Gender Gap in Basic education, NGO, as change agents, sage publications, New Delhi.
9. RatnaKumari(2006): Economic Discrimination Of Women, abhijit Publications ,New Delhi.

M.A.ECONOMICS, SEMESTER –I  
(ELECTIVE PAPER)  
**ECO-105(C) FINANCIAL ECONOMICS-I**

**Module -I: The Financial System and its significance for Economic Development** – The Structure and functions of the Financial System in India- All India development financial institutions, Investment Institutions, Specialized financial institutions and State level financial institutions.

**Module–II: Commercial Banking.** Banking structure in India-Context, Need and Objectives – financial sector reforms -Narasimham Committee Report – Financial Sector Reforms with reference to Stock Markets.

**Module – III: Money Market:** Organized sector of the Money Market and their sub-markets- Call money market, Treasury bill market, The Repo Market, Commercial Paper market and Money market mutual funds and their instruments. - Money market reforms in India.

**Module – IV: Capital Market:** Structure of Capital market- Primary and Secondary markets- New issues and Secondary Issues Markets, Securities-Private and Guilt Edged Securities- Pre and Post Reform Capital Market in India

**Basic Reading List:**

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill, New York.
4. Goldsmith, R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S.Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi.
6. Harker, P.T. and S.A.Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
7. Johnson, H.J. (1996) Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
8. Khan, M.Y. (1996) Indian Financial System, Tata Mc Graw Hill, New Delhi.
9. Machiraju, M.R. (1999) Indian Financial Systems, Vikas Publishing House, New Delhi.
10. Ohlson, J.A. (1987), The Theory of Financial Markets and Institutions, North Holland, Amsterdam.
11. Prasad, K.N. (2001) Development of India's Financial System, Sarup & Sons, New Delhi.
12. Robinson, R.I. and D.Wightman (1981), Financial Markets, McGraw Hill, London.
13. Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of Financial System, Prentice Hall, and Englewood-Cliff, New Jersey.
14. Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
15. Machiraju, H.R. (1997), International Financial Markets in India, Wheeler Publishing, Allahabad.

M.A.ECONOMICS, SEMESTER – II  
(CORE PAPER)  
ECO – 201, MICRO ECONOMICS – II

Module 1: Alternative Theories of the Firm: Baumol's Model, Williamson, and Marries models, , Bain's Limit pricing, Sylos-Labini and Modigliani's models.

Module 2: Distribution: Ricardian and Modern Theories of Rent, Marginal Productivity theory of wages, neo-classical theory of interest, and theories of profit. Product Exhaustion theorem.

Module 3: Equilibrium Analysis: General Equilibrium: Walrasian model, Features of Market Equilibrium: Existence, Stability (Marshall and Walrasian conditions), Uniqueness. Cob-web models.

Module 4: Welfare Economics: Pigovian welfare economics, Pareto optimum conditions. Social welfare functions, Compensation principles, Arrow's impossibility theorem.

Module 5: Economics of Risk and Uncertainty: Role of expectations, Consumer's choice involving risk (risk takers, risk averse and risk neutral), Neumann – Morgenstern Index, Savage Hypothesis, Gambling and Insurance.

**BASIC READING LIST:**

1. Koutsoyiannis, A: Modern Microeconomics, Macmillan
2. Ahuja: Advanced Economic Theory,
3. Pindyck, R.S. and D.L.Rubinfeld: Microeconomics, Pearson Educational
4. Crystal, R. and A. Lipsey: Microeconomics, Oxford University Press.
5. Varian, H.R.: Intermediate Microeconomics, W.W. Norton & Co
6. Krugman, Paul Wells, Robin Microeconomics, Worth Publishers W H FREEMAN & CO

M.A.ECONOMICS, SEMESTER – II  
(CORE PAPER)  
ECO – 202, MACRO ECONOMICS – II

Module 1: Post-Keynesian Theories of Demand for Money: Post-Keynesian approaches to demand for money – Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin; Friedman and the modern quantity theory; Crisis in Keynesian economics and the revival of monetarism – Friedman Restatement of quantity of money and its critical appraisal.

Module 2: Neo-classical and Keynesian Synthesis: Neo-classical and Keynesian views on interest; The IS-LM model; Extension of IS-LM model with government sector; Relative effectiveness of monetary and fiscal policies; IS-LM model in open economy, Monetary approach to balance of payments. Capital flows with fixed exchange rate, trade and capital flows with flexible exchange rate and critical look at IS-LM model.

Module 3: Theory of Inflation: Classical, Keynesian and Monetarist approaches to inflation; Structuralist theory of inflation; Philips curve analysis – Short run and long run Philips curve; the natural rate of unemployment hypothesis; Tobin's modified Philips curve and policies to control inflation.

Module 4: Business Cycles: Business Cycles – Theories of Schumpeter, Samuelson and Hicks – Interaction of multiplier and accelerator model, control of business cycles – relative efficacy of monetary and fiscal policies – Monetary policy and its objectives with special reference to Indian Economy.

Module 5: New Classical Macroeconomics: The new classical macroeconomic approach; Policy implications of new classical approach – Rational expectations theory, Role of expectations in macroeconomic analysis – Additive expectations. Supply side economics assumptions and evaluation.

Basic Reading List:

1. Gordon, R. and S.G.Harris (1998), Macroeconomics, Addison Wesley.
2. Culbertson, J.M. (1968), Macroeconomic Theory and Stabilization Policy, McGraw Hill, Kogenkosh, Tokyo.
3. Chakravarty, S.C. (1985), Report of the Committee to Review the Working of the Monetary System, Reserve Bank of India, Bombay.
4. Gupta, S.B. (1995), Monetary Planning India, Oxford University Press, New Delhi.
5. Gurley, J. and E.S. Shaw (1960), Money in a Theory of finance Brookings Institution, Washington.
6. Mckinen, G.E. (1978), Money, the Price Level and Interest Rates, Prentice Hall of India, New Delhi.
7. Reddy, Y.V.(2000), A. Review of monetary and Financial Sector Reforms in India-A Central Banker's Perspective, UBSPD, New Delhi.
8. Fredrman, M. (1956), Studies in the Quantity Theory of Money, the University of Chicago Press, Chicago.

M.A.ECONOMICS, SEMESTER – II  
(CORE PAPER)  
ECO – 203, QUANTITATIVE METHODS – II

**Module 1: Mathematics – I:** Determinants and their Basic Properties, Solution of Simultaneous equations through Cramer's rule Matrices – Concept and types, Simple operation on matrices, matrix inversion, rank of matrix, concept of vector and its properties, Introduction to input-output analysis.

**Module 2 : Mathematics – II:** Constrained optimization, Lagrangian function, simple economic applications, maximization of utility and maximization of profits, Introduction to linear programming, formulation of linear programming problem – its structure and variables, Nature of feasible, basic, optimal solution, Solution of linear programming through graphic method,

**Module 3: Statistics – I:** Basic concept of sampling – random and non-random sampling, simple random, stratified random sampling. Formulation of statistical hypotheses – null and alternative, Testing of hypothesis.

**Module 4: Statistics – II:** Concept of probability, Classical and empirical definitions of probability, laws of addition and multiplication, discrete random variable – its concept, mean and variance, Normal distribution – its concept and properties.

**Module 5: Statistics – III:** Time series and analysis, components of time-series data, determination of secular trend by moving average and ordinary least square methods, Uses of seasonal indices, Estimation of linear and compound growth rate using OLS method.

**BASIC READING LIST:**

1. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas publishing house, New Delhi.
2. Chiang, A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.
3. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millian Press and ELBS, London.
4. Dowling, E.T. (1992), Mathematical Economics 2nd Edition, Mac Graw Hill, New York.
5. Gupta, S.P. (2007), Statistical methods, Sultan Chand and Sons, New Delhi.
6. Nagar, A.L. and Das, R.K. (1983): Basic Statistics 2nd Edition, OUP, Delhi.
7. Speigal, M.R. (1992), Theory and Problems of Statistics, Mc Graw Hill Book Co., London.
8. Yamune, Taro (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.

M.A. ECONOMICS, SEMESTER – II  
(ELECTIVE PAPER)  
ECO-204 (A) AGRICULTURAL ECONOMICS-II

Module 1 Internal Terms of Trade: Terms of trade between agricultural and non-agricultural prices; Need for state intervention; Objectives of agricultural price policy

Module 2 Agricultural Growth in India: Recent trends in agricultural growth in India; Inter-regional variations in growth of output and productivity; Cropping pattern shifts; Supply of inputs - Pricing of inputs and role of subsidies:

Module 3 NAS-Its Impact: Distribution of gains from technological change; Role of Public investment and capital formation in Indian agriculture; Strategy of agricultural development; Sustainable agriculture and Food Security

Module 4 Agriculture and External Sector: International trade in agricultural commodities: Commodity agreements; Globalization of Indian economy and problems and prospects of Indian agriculture; Impact of World Trade Organization on Indian agriculture.

Basic Reading List:

- Bhaduri, A. (1984) The Economic Structure of Backward Agriculture, Macmillan, Delhi.
- Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
- Dantwala M.L. Et al, (1991) Indian Agricultural Development since Independence, Oxford & IBH New Delhi.
- Gulati, A. and t. Kelly (1999), Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
- Joshi. P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publishers, Bombay.
- Kahlon, A.S. and Tyagi D S (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.
- Rao. C.H. Hanmantha (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
- Rudra, A (1982), Indian Agricultural Economics, Myths and Reality, Allied Publishers, New Delhi.
- Saini, G.R. (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers New Delhi.
- Upender, M. (1990), Marketable and Marketed Surplus in Agriculture, Mittal Publications, New Delhi.

M.A. ECONOMICS, SEMESTER – II  
(ELECTIVE PAPER)  
ECO-204 (B) COMPUTER APPLICATIONS FOR ECONOMICS-II

**Module- 1: Computer Applications** and Basic Statistics Construction of Frequency, Generating Graphs – Histogram, Pie Charts, Bar-Graphs, Calculation of Probability, Calculation of Mean and Variance, Hypothesis Testing.

**Module -2 Data operations** – Preparation and Formatting of Text, Tables and Graphs – Estimation of Descriptive Statistics, Index Numbers and Growth Rates, Demand function, Supply function, Production function, Consumption function, Employment Function, Demand for Money function, Supply of Money function, Leontiff Input-Output Model

**Module 3:** Estimation of Regression and Correlation Estimation of Simple regression Line, Estimation Correlation Coefficient, Zero Correlation Matrix, Estimation of Values through Multiple Regression and Analysis..

**Module – 4: Data Analysis using SPSS:** Basics of Data Analysis – Data Entry in SPSS – Computing with SPSS – Preparation of Graphs with SPSS – Distribution Functions and Density Functions – Statistical Package handling and command description for SPSS – Reports, Descriptive – Statistics, Compare Means, Time Series Analysis,

Basic Reading List:

- |                                 |  |
|---------------------------------|--|
| 1. Sinha, P.K.                  | : Computer Fundamentals, BPB Publications, New Delhi.          |
| 2. Raja Raman.V.                | : Fundamentals of Computers, PHI, New Delhi.                   |
| 3. Kerns                        | : Essentials of Microsoft Windows, Word and Excel, PHI.        |
| 4. Alexis Leon and Mathews Leon | : Introduction to Computers with Ms-Office, TMH.               |
| 5. Asthana and Braj Bhushan     | : Statistics for Social Sciences (with SPSS applications), PHI |

M.A. ECONOMICS, SEMESTER – II  
(ELECTIVE PAPER)  
**ECO-205(A) ENVIRONMENTAL ECONOMICS-II**

**Module 1: Theory and Policy of Pollution Control:**

Prevention, Control and abatement of pollution- Choice of policy instruments in developing countries- Environmental education- Environmental law- Optimal Level of Pollution. Polluter Pays Principle – Pigovian Taxes and Subsidies. Pollution Permits. Charge and Standards approach. Coase Theorem. Role of Govt. in Environmental Regulation.

**Module 2: Measurement of Environmental Degradation:**

Environmental Costs and Benefits: Under and Non-user Benefits. Direct and Indirect Valuation Methods: Contingent Valuation Method and Willingness to pay. Hedonic Property Values, Travel Cost, Averted Expenditure and Dose Response Methods.. Green National Income and Genuine Savings.

**Module 3: Environment Problems of India:**

Economic development and Environmental problems – Air, Water and Soil Pollution, Natural Resource Depletion, Deforestation, Industrial and Agricultural Pollution, Urbanization, Vehicular Pollution. Global warming and green house effect- Environmental degradation, impact of Green Revolution Techniques. Renewable energy resources.

**Module 4: Policy measures**

Basic approach- Design of environmental policy- Indian environment policies and performance- Functions of Ministry of Environment and Forest and Pollution control Boards- Environmental Laws in India- Water and Air pollution control Acts, Environmental protection Act. Problems in India Mechanism for environment regulation in India; Environmental laws and their implementation.

**Basic Reading List**

1. Baumol, W.J. and W.E.Oates(1988), The Theory of Environmental Policy (2nd Edition) CUP, Cambridge.
2. Bhattacharya, R.N. ed. (2001): Environmental Economics, An Indian Perspective, Oxford University Press, New Delhi.
3. Hanley, N.J.F.Shogren and B.White (1997) Environmental Economics in Theory and Practice. Macmillan.
4. Jarret H. ed. Environmental Quality in a Growing Economy, John Hopkins Press, Baltimore.
5. Kalpagam, (1998): Environmental Economics, Sterling Press. 6. Kolstrad, C.D. (1999): Environmental Economics, Oxford University Press, New Delhi.
6. Rao, O.K. (2000): Sustainable Development, Economics and Policy, Blackwell Publishers, UK.
7. Sankar, U ed (2001): Environmental Economics, Oxford University Press, New Delhi.
8. Saxena, H.M. (2000): Environmental Management. Rawat Publishers, New Delhi.
9. Sengupta, R.P. (2000): Ecology and Economics: An Approach to Sustainable Development Oxford University Press, v New Delhi.



M.A. ECONOMICS, SEMESTER – II  
(ELECTIVE PAPER)  
ECO-205 (B) GENDER ECONOMICS-II

Module 1. Women and Labour Market

Factors affecting female entry in Labour market, supply and demand of female Labour in developed and developing countries particularly in India, Female work participation in agriculture, organized industry and service sector.

Module 2: Women and Empowerment

Concept of women empowerment, dimensions education and empowerment, Issue related to women's education: Access, enrolment dropouts, women empowerment programs in India with particular references to Telangana, role of government, NGOs, SHG in women empowerment.

Module 3. Women in Decision making

Factors affecting decision making, women property rights, Access to and control over economic resources, assets, economic status of women and effect on work participation of women.

Module 4. Women in Technology and Environment

Impact of Technological Development and Modernisation on Women's work participation in general and in various sectors, Role of new technologies for helping women, provision of Information and training for participation of women in economics services.

References:

1. Bosarup Ester (1970): Women's Role in Economic Development, George Allen and Unwin London.
2. Amsden A. H (ED) (1980): The Economics of women and work penguin harmen-----
3. Seth. M (2000): Women and Development.
4. Krishanraj M.R, M.Sudarshan and A. Shariff(1999): Gender, Population and Development.
5. Nussbaum (2001): Women and Human Development: The Capabilities Approaches.
6. Agarwal Bina (1994): A Field at one's own gender and Land Rights in South Asia, Cambridge University, Press, New Delhi.
7. Natural Commission for women: Towards Equality the unfinished agenda status of women in India-2001, New Delhi (2002)
8. Wazir.R (2000): The Gender Gap in Basic education, NGO, as change agents, sage publications, New Delhi.
9. RatnaKumari(2006): Economic Discrimination Of Women, abhijit Publications ,New Delhi.

M.A.ECONOMICS, SEMESTER –II  
(ELECTIVE PAPER)  
ECO-205(C) FINANCIAL ECONOMICS-II

Module -1: Securities Exchange Board of India: National Stock Exchange of India: SEBI and Capital market development. Changing rules of SEBI related to primary market, Mutual funds and for promoters.

Module–2: Concept and Significance of Insurance – Types of Insurance – The Growth and Structure LIC and GIC of India – The Role of Private Insurance in India.

Module-3: Mutual Funds – Organization, Types of Schemes, Growth, Structure and size of Mutual Funds in India.

Module-4: Critical review of Indian financial system: Comparative performance of money market and capital markets in India. Concerns and Challenges for future of Financial structure development in India.

Basic Reading List:

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill, New York.
4. Goldsmith, R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S.Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi.
6. Harker, P.T. and S.A.Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
7. Johnson, H.J. (1996) Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
8. Khan, M.Y. (1996) Indian Financial System, Tata Mc Graw Hill, New Delhi.
9. Machiraju, M.R. (1999) Indian Financial Systems, Vikas Publishing House, New Delhi.
10. Ohlson, J.A. (1987), The Theory of Financial Markets and Institutions, North Holland, Amsterdam.
11. Prasad, K.N. (2001) Development of India's Financial System, Sarup & Sons, New Delhi.
12. Robinson, R.I. and D.Wightman (1981), Financial Markets, McGraw Hill, London.
13. Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of Financial System, Prentice Hall, and Englewood-Cliff, New Jersey.
14. Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
15. Machiraju, H.R. (1997), International Financial Markets in India, Wheeler Publishing, Allahabad.
16. Rangarajan, C. (1999), Indian Economics: Essays on Money and Finance, UBS Publication, New Delhi.
17. Fisher, G.E. and R.J. Jordan (1992), Security Analysis and Portfolio Management, Eastern Economy Edition, New Delhi.
18. Apte; International Financial Management Tata, Mc Graw Hill Publishing Company. LTD., New Delhi.

M.A. ECONOMICS SEMESTER-III  
CORE PAPER

ECO 301 - ECONOMICS OF GROWTH AND DEVELOPMENT

- Module 1 Growth and Development -Measuring of Growth and Development – factors affecting Economic growth -traditional approach- Welfare oriented approach  
- Human Development approach - essential components of Human Development- Human Development Index.
- Module 2 Theories of Development Growth Models - Classical and Neo-Classical theories of Development - Schumpeter and Capitalist Development - Rostow's Stages of Economic Growth - Marxian Growth Sates and Development Model.
- Module 3 Harrod-Domar Growth Model - R.M. So low s Model, Approaches to Development – Partial Theories of growth and development - The theory of the Big Push- Critical Minimum Effort and low level Equilibrium Trap.
- Module 4 The Theory of Balanced and Unbalanced Growth- Lewis Model of unlimited supply of labour -Simon Kuznets Economic Structure and Change. Choice of Techniques - Capital, labour and appropriate technology – Romar□s endogenous growth model.
- Module 5 Allocation of Resources - Investment Criteria – Role of labour orientation methods in the development of third world countries – Role of capital formation in developing countries-spread effects and backwash effects. Role of Technology in Economic Development

REFERENCES:

1. Benjamin Higgins : Leading Issues in Economic Development, Oxford University Press, New York.
2. Adleman, I : Theories of Economic Growth and Development, Stanford University Press, Stanford.
3. Chakravarthi,S : Development Planning, The Indian Experience, Clarendon Press, Oxford.
4. Brahmananda, P.R & Vakil, C.V. : Planning for an Expanding Economy, Vora & Co, Bombay.
5. A.K.Sen : Choice of Techniques, Basil Blackwell, London.
6. Ghosh & Ghosh : Planning Models & Techniques & Indian Planning.
7. -- : Human Development Report.
- 8 Gerald Meir : Leading Issues in Economic Development.
10. M.P. Todaro : Economic Development in the third world.
- 11- Misra & Puri : Economic Development, Himalaya Publishing, House

M.A. ECONOMICS SEMESTER-III  
CORE PAPER  
ECO 302 – INTERNATIONAL ECONOMICS-I

Module 1 Theories of International Trade –Neo-Classical Theories; Heberler's Opportunity Cost Approaches; Modern theories of Trade – Hecksher and Ohlin Model; Leontief Paradox; Factor Price Equalization theorem

Module 2 Gains from Trade: Measurement of Gains from Trade and their distribution; concepts of Terms of Trade – Income and Factorial Terms of Trade; Hypothesis of Secular deterioration of terms of trade and its implications for less developed countries – Immiserising Growth – Trade as an Engine of Economic Growth

Module 3 Theory of Interventions: Tariff Issues, Quotas and its Economic effects; the political economy of non-tariff barriers and the implications-nominal, effective and optimum rates of tariffs - their impact and welfare implications; Trade under imperfective competitive market – EEC

Module 4 Balance of Payments: Meaning and components of Balance of Payment, causes for disequilibrium in BOP and measures to correct; Expenditure reducing and switching policies, Marshall and Lerner's conditions.

Module 5 Foreign exchange Rate : Foreign Exchange rate determination under the Gold Standard, Fixed and Flexible exchange rate, Purchasing Power Parity theory – India's foreign exchange reserves, convertibility of rupee, FEMA (Foreign Exchange Management Act)- Importance of International Trade for a Developing economy.

References:

1. Bhagavati, J (Ed) : International Trade Selected Readings, Cambridge University Press, Massachusetts.
2. Kindleberger, : International Economics, R.D Irwin, Home Wood
3. Soderston, B.O. : International Economics, the Macmillan Press Ltd., London.
4. Brahmananda, P.R. : The IMF Loan and India's Economic Future, Himalaya Publishing House, Bombay
5. Man Mohan Singh : India's Export Trends and the prospects for self-sustained Growth, Oxford University Press, New Delhi
6. Nayyar, D : India's Exports and Export Policies in the 1960's Cambridge University Press
7. Panchamukhi, V.R. : Trade Policies of India - A Quantitative Analysis, Concept Publishing Company, New Delhi.
8. Mundell, R : International Economics, the Macmillan Company Ltd., New York.

M.A.ECONOMICS, SEMESTER – III  
(CORE PAPER)  
ECO – 303, PUBLIC ECONOMICS

PAPER: I - PUBLIC ECONOMICS - I

Module 1 Public Finance: Role of the state in Economic activity – Multiple theory of public house hold –distinction between private & public fiancé – public fiancé in developing countries.

Module 2 The Principle of maximum Social advantage – Musgrave's views – Mrs. Hicks optima of Public policy – Externalities and public goods – theory of second best – public choice theory.

Module 3 Taxation; Theories of Incidence - Traditional and Modern Approaches - Benefit Approach - Ability to Pay Approach - Neutrality Approach - Laffer Curve-Taxable capacity.

Module 4 Public Expenditure - Wagner's Law - Peacock - Wiseman Hypothesis - Criteria for Public Investment - Social Cost - Benefit Analysis - Budget Classification - Programming Budget - Zero - Based Budgeting

Module -5 Public Debt - Burden Controversy - Debt Management - Redemption of Public Debt - Public Debt and third World Countries.

READING LIST:

1. R.A. Musgrave : Theory of Public Finance
2. Musgrave & Musgrave : Public Finance in theory and Practice
3. Houghton : Public Finance
4. A.E.A : Readings in Economics of Taxation
5. Hugh Dalton : Principles of Public Finance
6. B.P. Tyagi : Public Finance.
7. R.N. Bhargav : Indian Public Finance.
8. J.F. Due : Govt. Finance
9. J.M. Buchaman : Public principles of Public Debt (Illimans, 1958)
10. Cook, H.J., : The role of debt in the economy (Washington, 1961).
11. I.M.D. Little : Project Appraisal and Planning for Developing countries
12. A.R. Prest : Public Debt and Economic Development
13. R. Jha : Public Finance
14. R.K. Singh : Public Finance
15. H.S. Agarwal : Public Finance
16. Sampath Mukherjee : Simple analytics of Public Finance
- 17.R.K. Choudhry : Public Finance & Fiscal Policy.

M.A. ECONOMICS, SEMESTER- III  
(ELECTIVE PAPER)

ECO-304 (INDUSTRIAL ECONOMICS)

Module-1: Industrial Technology: Meaning of Industrialization, Classification of Industries characteristics of Industrialization, Pattern of Industrialization, Determents of Industrial Growth, Speed of industrialization, Causes for Slow Progress of Industrialization Role of Industrialization in Economic Development.

Module-2: Theories of Industrial Growth and Industrial Location: Chenery's Pattern of Industrial Growth, Gerschenkron's Great Spurt Theory, Alfred Weber's theory of Industrial Location, Sargent Florence Theory of Industrial Location, Factors Influencing Industrial Location.

Module-3: Market Structure: Meaning and Characteristics of Market, Structures of Markets, Industrial Concentration and Sellers Concentration, Meaning Profit, Profits determinants of Profits, Entry Conditions or Barriers to Entry.

Module-4: Industrial Technology: Meaning of Technology, Role of Technology in Economic Development, Transfer of Technology to Under Developed Countries, Need for Transfer of Technology, Channels of Technology.

Basic Reading List:

1. Ahuliwalia, 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. Chernuliam, F. (1994), Industrial Economics: Indian Perspective (3<sup>RD</sup> Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economy in India (3<sup>rd</sup> Edition,) Himalaya Publishing House, Mumbai.
5. Divine, P.J. and R.M. Jones Et. Al (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
6. Government of India, Economic Survey (Annual)
7. Hay, D. and D.J.Morris (1979), Industrial Economics: theory and evidence, Oxford University Press, New Delhi.
8. Kuchhal, S.C. (1980), Industrial Economy of India (5<sup>th</sup> Edition), Chaitanya Publishing House, Allahabad.
9. Reserve Bank of India, Report on currency and Finance (Annual)
10. Sing, A and A.N.Sadhu (1988), Industrial Economics, Himalaya Publishing House, Mumbai.

M.A. ECONOMICS SEMESTER-III  
ELECTIVE PAPER  
ECO: 304 (B) - ECONOMETRIC METHODS-I

**Module-I : Introduction**

Nature, Meaning, Definition and Scope of Econometrics-Methodology of Econometric Research-Simple Linear Regression Model-Method of OLS-Assumptions underlying the Method of Least Squares - Standard Errors of Least Squares Estimators – Properties of Least Squares Estimators

**Module-II Interval Estimation**

Interval Estimation - Confidence Intervals for Regression Coefficients  $b_1$  and  $b_2$  – hypothesis Testing: Confidence Interval Approach and Test of Significance Approach hypothesis Testing: Confidence Interval Approach and Test of Significance Approach. The  $t$  test-Meaning of accepting or rejecting a hypothesis..

**Module-III Multiple Regression**

Multiple Regression Analysis: Assumptions - The two and three variable model - Statistical Properties of Least Square Estimates - Interpretation of Multiple Linear Regression Model - Goodness of fit. Regression with Qualitative Independent Variable- Regression Models with Dummy Variables.

**Module-IV Multicollinearity**

Nature of Multicollinearity - Estimation in the presence of Multicollinearity – Theoretical and Practical Consequences of Multicollinearity - Detection of Multicollinearity - Remedial Measures. Heteroscedasticity Definition – Consequences - tests, Spearman Rank Correlation test - Goldfeld and Quandt test - Park Test.

**REFERENCES:**

1. Koutsoyiannis, A., "Theory of Econometrics: An Introductory Exposition of Econometric Methods", Educational Low-Prices Books Scheme, McMillan Education Ltd., (1992).
2. Damodar Gujarathi, "Basic Econometrics", Tata McGraw Hill Ltd., 1999, 4th Ed.
3. Suresh K. Ghose, "Econometrics". Prentice Hall of India Private Limited, New Delhi.
4. Goldberger, A.S. (1998), "Introductory Econometrics", Oxford University Press, Cambridge, Mass.

M.A. ECONOMICS SEMESTER-III  
ELECTIVE PAPER  
ECO: 305 (A) RESEARCH METHODOLOGY

Module -1 : Foundations of Research

Research: Meaning, Characteristics; Types; Criteria of Good Research, Theoretical Foundation; Problems and Applicability in Social Research; Subjectivity v/s Objectivity in Social Research; Plagiarism and Ethical Issues in Research. Case Study; Field Study.

Module -2: Research Process

Research Process- Factors involved in the process. Research Problem: Identification of the Problem, Factors Involved. Review of Literature: Need for Reviewing Literature, Sources of Literature; Developing Objectives. Hypothesis: Meaning, Features and Importance. Research Design: Meaning and Types.

Module-3: Data collection and Sampling

Data Collection: Sources-Primary and Secondary Data, Advantages/Disadvantages. Data Collection Techniques: Observation Method, Survey -Interview and Questionnaire Method, Merits and Demerits; Pilot Study. Sampling: Meaning, Principles, Sampling Process, Types of Sampling, Sample Size, Advantages and Disadvantages, and Errors in Sampling.

Module-4: Processing and Analysis of Data, Report Writing

Processing: Editing - Tabulation - Graphical Representation, Statistical Analysis and Testing of Hypothesis. Use of Computer in Data Analysis and Presentation. Report: Steps in Report Writing, Research Report Format, Writing the Report., Footnote, Endnotes, References and Bibliography.

References

- C R Kothari (2008), *Research Methodology: Methods and Techniques*, New Age International, Ansari Road, Darya Ganj, New Delhi-110 002, INDIA
- Ghosh, B.N. (1992), *Scientific Methods and Social Research*, Sterling Publishers Pvt., Ltd. New Delhi.
- Goode W. J and Hatt P. K (2014), *Methods in Social Research*, McGraw Hill, New York
- Krishnaswamy O. R. (1993), *Methodology of Research in Social Sciences*, Himalaya Publishing House, Mumbai
- Sadhu A.N. and Amarjit Singh (2005), *Research Methodology and Social Sciences*, Himalaya Publishing, New Delhi.



M.A. ECONOMICS SEMESTER-III  
ELECTIVE PAPER  
ECO: 305 (B) DEMOGRAPHY

- Module – 1 Meaning and scope of demography - components of population-growth and their interdependence-Theories of population– Malthus and Optimum theory of population - Theory of demographic transition – Population and Development.
- Module – 2 Population trends in the twentieth century - population Explosion – International aspects of population growth and spatial distribution- Determinants of age and sex -structure- Aging of population – social economic implications.
- Module – 3 Fertility – Trends in fertility rates in developed and less developed countries-Factors affecting fertility – Nuptiality – concept and analysis of marital status-single mean age at marriage – synthetic cohort methods
- Module – 4 M o r t a l i t y rates in more and less developed countries- Life table – construction and uses- concepts of stable population- Methods of population projection. Migration – Streams of migration - Factors affecting migration – Urbanization – trends in developed and developing countries – study of census in India- Trends in the rate of growth of Indian Population.

READING LIST:

1. S.N.Agarwal : India's population problem – Tata Mc Graw –Hill Co. Bombay.
2. Ahisha Bose: India's Basic Demographic statistics-B.R Publishing corporation, New- Delhi.
3. P.K. Chowbey: Population policy in India – Kanishka Publications, New Delhi.
4. S.C Gulati: Fertility in India an Econometric study of a metropolis-Sage, New Delhi.
5. K.Srinivsan: Basic Demographic techniques and applications.-Sage, New Delhi
6. D.J. Bogue: Principles of Demography-John Wiley, New York.
7. C.M. Chiang: Life tables and Mortality Analysis.-WHO, Geneva.
8. CEHI, Dharmakumar (ed) Vol.2
9. Praveen Visaria, Population studies.
10. Dharma Kumar, Land and caste in south India.

M.A. ECONOMICS SEMESTER-III  
ELECTIVE PAPER  
ECO: 305 (C) ECONOMICS OF RURAL DEVELOPMENT

Module - 1 Approaches to Rural Development- Structuralist, Gandhian and Functionalist Approaches - Rural Development-Experiences of China, Tanzania, Bangladesh, Israel and India.

Module - 2 Rural Social Structure in India - Co-operative farming - Green Revolution and its impact - Changing pattern of agrarian relations - Unionization of agricultural labour, Irrigation in Rural Development. Poverty and Unemployment in rural areas.

Module - 3 Rural Financial structure – Role of Banking Sector in the Rural Development Rural money markets - Role of Co-operatives Commercial Banks and RRBs - Financial Sector Reforms –

Module – 4 Rural Industrialization and State role Rural Indebtedness, Rural Marketing – Rural Occupational Structure Rural Artisans, Basic Problems of Rural Labour, female and child labour in rural areas, Inclusive Growth and Rural Development, Globalization and Rural Development.

READING LIST:

1. P.C. Joshi : Land Reforms in India
2. CH. Hanmantha Rao : Technological Changes and Distribution of Gains in Indian Agriculture.
3. K. Venkat Reddy : Rural Development in India
4. I. Sathya Sundaram : Rural Development in India
5. NIRD : Rural Development in India: Some Facts
6. Robert Chambers : Rural Development
7. Sarthar Aziz : Rural Development, China, India & Bangladesh.
8. N.L. Murthy & K.V. Narayana : Rural Economy of India
9. A.R. Desai : Rural Sociology.
10. Abdul Aziz : Unionization of Agricultural Labourers - A Proposal

M.A.ECONOMICS, SEMESTER – IV  
(CORE PAPER)  
ECO – 401, INDIAN ECONOMY

Module- 1 Introduction: Indian Economy during British rule, Commercialization of Agriculture, Process of Industrialization. Composition of Foreign Trade, GNP and Occupation, Trends in NI Growth & Structure; Physical Quality Life Index (PQLI), Human Development Index (HDI): GEM Nature and Magnitude of Workforce and Unemployment, Poverty and Inequality.

Module - 2: planning and NITI Aayog: Six decades of planned development - The National Institution for Transforming India (NITI Aayog) - Recent trends in sectoral rates of Growth in India – Indian Economy- inter-State variations in Development - Lopsided development – Organized and unorganized Sectors- emergence of informal sector in India.

Module -3 Industrial Sector- Industrial policies, Public and Private sector performance, Growth and pattern of industrialization, Small Scale sector, Privatization, Disinvestment and Exit Policy.

Module -4 Fiscal Federalism- Central state financial relations, finances of Central and state governments- Parallel economy, fiscal sector reforms in India, Monetary and Credit policies and financial sector reforms in India.

Module – 5 Economic Reforms: Changing Role of State; Globalization of Indian Economy, WTO and its Impact, National agenda for Governance. Issues in Export – Import Policy and Foreign Exchange Management Act (FEMA); Exchange Rate Policy, Foreign Capital and MNCs in India; Trade Reforms in India.

Basic Reading List

1. Ahluwalia, I.J. and I.M.D. Little (Eds.) 1999), India's Economic Reforms and Development (Essays in honor of Man Mohan Singh), Oxford University Press, New Delhi.
2. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
3. Bawa, R.S. and P.S.Raikhy (Ed). (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
4. Brahmananda, P.R. and V.R. Pancharukhi (Eds) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.
5. Chakravarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
6. Dantwala, M.L.(1996): Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.

M.A. ECONOMICS SEMESTER-IV  
CORE PAPER  
ECO: 402 INTERNATIONAL ECONOMICS-II

Module -1 Trade Problems of Developing Countries – Prebisch Singer and Unequal Hypothesis – Rise and Fall of Gold Standard and emergence of Brettonwoods system; role of International Institutions – IBRD, IMF, ADB in relation to Developing Countries

Module -2 The Theory of Regional Blocs: Forms of Economic Co-operation; Inter- Regional Trade, SAARC/ SAPA and ASEAN Regions, Problems and prospects of Customs Union, Regionalism (EU, NAFTA), Multilateralism and WTO

Module 3 India's International Trade – Problems of Trade and Trade Policies in India for the last five decades, changes in the direction and composition of trade and their implications. New Trade Policy in the Reform Period

Module -4 India's balance of payment- Pre and Post Globalization Period. Management of balance of payments- Fiscal and external policies, trade strategy, exchange rate management, reserve management strategy,- Trade reforms and its effect on balance of payments and growth

Module -5 Trade and Development – Commercial Policy and Economic Development of less developed countries, Foreign Capital and Developing Countries, Problems of India's International Debt, Export Promotion Strategies and EXIM Policies

**BASIC READING LIST**

1. Bhagavati, J (Ed) : International Trade Selected Readings, Cambridge University Press, Massachusetts, 1981.
2. Kindleberger, : International Economics, R.D Irwin, Home Wood, 1973
3. Soderston, B.O. : International Economics, the Macmillan Press Ltd., London.
4. Brahmananda, P.R. : The IMF Loan and India's Economic Future, Himalaya Publishing House, Bombay
5. Man Mohan Singh : India's Export Trends and the prospects for self-sustained Growth, Oxford University Press, New Delhi.
6. Nayyar, D : India's Exports and Export Policies in the 1960's Cambridge University Press
7. Panchamukhi, V.R. : Trade Policies of India - A Quantitative Analysis, Concept Publishing Company, New Delhi.
8. Mundell, R : International Economics, the Macmillan Company Ltd., New York.
9. Salvatore : International Economics, Schaum Series
10. Krugman, PR & M.Obstfeld : International Economics Theory & Policy, Glenview, Foresman
11. Dunn, RM & JM Mutti : International Economics, Routledge, London, 2000

M.A. ECONOMICS SEMESTER-IV  
CORE PAPER  
ECO: 403 PUBLIC ECONOMICS-II

Module -1 Federal Finance and Development Finance - Principles of Federal Finance - Centre-State Financial Relations – Source of income and expenditure of the Central and State Governments- problems in resource mobilization by the state

Module -2 Finance Commissions in India - Devolution of Resources and Grants - Functional Finance – Latest Finance Commission – Main recommendations - Deficit Financing objectives, justification – Causes of Deficit Financing

Module -3 Pricing Policy in Public Enterprises - Disinvestment and Privatisation of Public Enterprises -Recent trends in the functioning of Private Sector in India – Policy Changes – Socio - Economic Implications

Module -4 Fiscal Policy - Objectives of Fiscal Policy - Interdependence between Monetary and Fiscal Policies - Alternative Measures for Resource Mobilization - their Impact on Growth & Distribution - Balanced Budget Multiplier

Module -5 Indian Public Finance - salient features of Indian Tax system - Trends in Indian Tax Revenues - Revenues of the Union, State and Local Bodies - Non- Tax Revenues, Tax Buoyancy and Elasticity –GST Pattern of Expenditure & Debt in India - Tax and Expenditure Reforms - Major Recommendations of the committees.

READING LIST:

1. A.R. Prest : Public Finance in the Developing Countries
2. R.J. Chellaiah : Fiscal Policy in under Developed Countries
3. A.E.A : Readings in the Economics of Taxation.
4. Hugh Dalton : Principles of Public Finance
5. Andley & Sundaram : Public Economics and Public Finance
6. B.P. Tyagi : Public Finance
7. Ganguli : Public Finance
8. Govt. of India : Economic Survey Reports
9. A.S. Agarwal : Public Finance
10. R. Jha : Public Finance
11. H.L. Bhatia : Public Finance

M.A. ECONOMICS, SEMESTER- IV  
(ELECTIVE PAPER)  
ECO-404: INDUSTRIAL ECONOMICS-II

**Module –1** : Economies of Scale, Profitability and Innovation: Meaning of Economies of Scale, Types of Economies of Scale, Internal Economies of Scale, External Economies of scale, Profitability, Measurement of Profitability, Determinants of Profitability, Concept of Innovation, Measurement of Innovation.

**Module –2: Productivity**: Meaning of Productivity, Importance of Growth of Productivity, Concept of Efficiency, Determinants of Efficiency, Measurement of Efficiency.

**Module –3** : Industrial Policies in India: Introduction to Industrial Policy, Industrial Policy 1956, Industrial Policy-1977, New Industrial Policy-1991, Performance of Industrial Development Since Independence.

**Module –4** : Capacity Utilization And Industrial Soundness : Meaning of Capacity Utilization, Importance of Capacity Utilization, Measurement of Capacity Utilization.\_Assessment of Industrial sector: Profit & Loss Account, Ratio Analysis.

Basic Reading List:

1. Ahuliwalia, 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. Chernuliam, 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. Divine, P.J. and R.M. Jones Et. Al (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
6. Government of India, Economic Survey (Annual)
7. Hay, D. and D.J.Morris (1979), Industrial Economics: theory and evidence, Oxford University Press, New Delhi.
8. Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad.
9. Reserve Bank of India, Report on currency and Finance (Annual)
10. Sing, A and A.N.Sadhu (1988),

M.A. ECONOMICS SEMESTER-IV  
ELECTIVE PAPER  
ECO: 404 (A) ECONOMETRIC METHODS-II

- Module -1 Role of Lag in Economics- Reasons for Lags- Auto-Regressive and Distributed Lag Models- Koyck Model- Adaptive Expectations Model- Partial Adjustment Model.
- Module -2 Simultaneous Equations system- Consequences of Simultaneous Relations – Simultaneous Equations Bias - Solutions to the Simultaneous Equation Bias – Structural Model - Distinction between Structural and Stricture Equations - Reduced and Recursive Models.
- Module -3 Identification- Meaning and Nature of the Problem of Identification -Derivation of Rank and Order conditions for identifying a structural equation – Implications of the Identification –Common features of Identification and Multi- Collinearity.
- Module -4 Methods of simultaneous (Simple Koyck Klien type) Equation systems-Indirect Least Squares Two stage Least Squares Relative Merits of the Estimation Techniques Pooling of Time-series and Cross section Data/Samples in Demand Analysis. Engel Function Estimation of Engle Elasticities - Consumption Function- Estimation of MPC- Production Function Cobb-Douglas and CES Production Functions and the Studies conducted in India.

Recommended Books:

1. Gujarati.D. (1999): Essentials of Econometrics, Second Edition, Mc Graw Hill, New Delhi Gujarati.D. (2003): Basic Econometrics, Fourth Edition, Mc Graw Hill, New Delhi.
2. ICSSR (1977): Survey of Research in Economics. Vol.7.
3. Johnston. J. (1991): Econometric Methods, Mc Graw Hill Book Co. London Kmentu.J. (1997): Elements of Econometrics, University of Michigan, New York.
4. Koutsoyiannis.A (1977): Theory of Econometrics, Second Edition, Mac millan, London.
5. Krishna. K.L. (Ed.1999): Econometric Applications in India, Oxford University Press, New Delhi.
6. Klein: An Introduction to Econometrics.
7. Maddala. G.S. (2002): Introduction to Econometrics, Macmillan, London.
8. Mahender Reddy.J: Applied Econometrics (Mimeo).
9. Wannacott & Wanncott: Econometrics.

M.A. ECONOMICS SEMESTER-IV  
ELECTIVE PAPER  
ECO: 405 (A) TELANGANA ECONOMY

Module- 1: Telangana Economy: Growth and Development: Concepts of Growth and Development – Relationship between Growth and Development: Economic Features of Telangana, Demographic Features of Telangana- Occupational Distribution of population in Telangana- Sectoral Distribution of population.

Module- 2: Gross State Domestic Product, Poverty and Unemployment  
Growth and Trends in Gross State Domestic Product and Per capita income in Telangana-Sectoral Contribution to Gross State Domestic Product. Poverty and unemployment in Telangana: Trends, Causes & Concentration of Economic Power.

Module- 3: Agriculture Sector  
Growth of Agriculture in Telangana Economy- Trends in Agricultural Production and Productivity. Agrarian Structure and Land Reforms, Irrigation sources Trends- Mission Kakatiya, Agricultural Credit and Rural Indebtedness.

Module- 4: Industrial Sector and Service Sector  
Structure of Telangana Industry- Its Growth and Pattern Industrial Policy of Telangana-TS iPASS Special Economic Zones. Importance of Service Sector in Telangana- Growth and Pattern of Development of Service Sector in Telangana.

Basic Reading List:

1. Rao S Kishan and Rahul A Shastry (2009): Andhra Pradesh Economy – Dynamics of Transformation with a focus on Regional Disparities, National Academy of Development,
2. Hanumantha Rao and S.Mahender Dev (2003); Andhra Pradesh Development – Economic Reform and Challenges Ahead, Centre for Economic and Social Studies, Hyderabad.
3. Kankalatha Mukund (1990); “Andhra Pradesh Economy in Transition; Centre for Economic and Social Studies, Hyderabad and Book Links Corporation, Hyderabad.
4. Mahendra Dev, S.C.Ravi and M.Venkatanarayana (2009); Human Development in Andhra Pradesh: Experiences, Issues and Challenges; Centre for Economic and Social Studies (CESS), Hyderabad.



M.A. ECONOMICS SEMESTER-III  
ELECTIVE PAPER  
ECO: 405 (B) ECONOMICS OF GLOBALIZATION.

**Module-1:** Globalization: Concept and Issues

What is Globalization? Why the Process of Globalization? When did it Begin? -Ideas behind Globalization - Views of Globalization - Is it Neutral? - Who are the Players in the Process of Globalization? - Why is it taking place now? - Extent of Globalization - Issues of Concern.

**Module-2:** Globalization and International Trade

World Trade Scenario: Composition, Direction and Trends in World Trade - Intra-Industry Trade -Regional Integration and Trade Composition - Trade between Developed Countries and between Developed and Developing Countries - Evaluation of the Performance of Major Traders - Performance Since the Initiation of Globalization - Costs and Benefits of Free Trade.

**Module-3:** Financial Flows and Technology Transfer in the Era of Globalization

*Foreign Direct Investment:* Composition, Direction and Trends in Foreign Direct Investments - Policies to Promote FDI - Gains from Foreign Direct Investment - Present Scenario - Controversies associated with it. - Portfolio Investment. .

**Module-4:** Crisis of Globalization and Challenges Ahead

Environmental impacts of Globalization - Myths and Realities of Globalization - - Globalization and Global Poverty and Disparities - Globalization or “Imperialism”? - Social and Cultural Dimensions of Globalization. - Millennium Development Goals. Myths and Realities of Globalization - Growing Protectionism among Developed Countries.

Basic References:

1. Yusuf Shahid, Simon Evenett, and Weiping WU, (ed), Facets of Globalization: International and Local Dimensions of Development, The World Bank, Washington. D.C.
2. Stiglitz Joseph E, Globalization and Its Discontents, W.W. Norton & Company, New York.
3. Goldin Ian and Kenneth Reinert, Globalization for Development, A Co- publication of the World Bank, and Palgrave Macmillan, Washington D.C.
4. Banerjee BrojendraNath, Globalization: Rough and Risky Road, New Age International Publishers, New Delhi.
5. Isaak Robert A., The Globalization Gap, FT Prentice Hall, New Jersey.
6. Petras James and Henry Vltmeyer, Globalization Unmasked, Madhyam Books, Delhi.
7. Chossudovsky Michel, The Globalization of Poverty, The Other India Press, Goa.
8. BhagwatiJagdish, In Defense of Globalization, Oxford University Press, New Delhi.
9. Norberg Johan, In Defence of Global Capitalism, Academic Foundation, New Delhi.
10. Singh Karaljit, Globalization of Finance, Madhyam Books, Delhi.

M.A. ECONOMICS SEMESTER-IV  
ELECTIVE PAPER  
ECO: 405 (C) RURAL DEVELOPMENT-II

Module-1: Nature and Scope

Rural Development; Objectives-characteristics-need for rural development- Rural Economic Rural Development Philosophy; Rural Problems. Rural Development Models; Contribution of Gandhi, VKRV Rao - Approaches of Rural Development IRDP, and PURA MGNREG rural Development.

Module-2: Rural Development Strategies

Growth of Agriculture and rural development in India–Rural Development Programmes - Micro Level Planning-Design and Evaluation of Rural Development Projects-Block Plans, Rural Infrastructure and Services.

Module-3: Rural Demography

Population growth and migration, rural to rural migration rural-urban migration. Todaro model implications Rural Urban Relations. Positive and Negative effects on rural social and economic life, Issues in Rural Health-IMR, Women Status- Gender Issues and Policies for Rural Women Empowerment.

Module-4: Administrative Structure and Organization in India

Panchayat Raj Institutions, People's Participation. Role of NGOs and voluntary agencies in Rural Development. Rural development-self-help Groups (SHGs) Co-operative Banks, Regional Rural Banks and NABARD.

References

1. Abdul Aziz (1984), Organizing Agricultural Laborers, Ashish, New Delhi.
2. Biradar, R.R (2008): Rural Non – agriculture employment in India: An Analysis of its determinants and impact on poverty and inequality, concept publishing company, New Delhi.
3. Dubashi, P.R. (1985), Rural Development in India, New Delhi.
4. I SatyaSundaram (1996), Rural Development in India.
5. Kurien, C.T. (1989), Dynamics of Rural Transformation, Orient Longman, Hyderabad.
6. NIRD (1985), Rural Development in India: Some Facets.
7. Rao, V.M. (1979), Rural Development and the Village.
8. Vasanth Desai (1988), Rural Development, 6 vol., Himalaya, Bombay.