

**Gondwana University, Gadchiroli**

**Syllabus for M.A. (Economics)  
Course under Choice Based Credit System &  
Credit Based Semester System**

**Session : 2016-17 onwards**

**M.A. (Economics) Sem I & II**

**Board of Studies in Economics**  
**M.A. Part – I (Economics) Syllabus Committee**

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**DEPARTMENT OF ECONOMICS**  
**Gondwana University, Gadchiroli**  
**M. A. –SEMESTER I<sup>ST</sup>**

| Sr. No.                | Course Code | Title of Course              |
|------------------------|-------------|------------------------------|
| <b>CORE COURSES</b>    |             |                              |
| 1                      | EC - 101    | Micro Economics – I          |
| 2                      | EC - 102    | Macro Economic Analysis-I    |
| <b>OPTIONAL PAPERS</b> |             |                              |
| 1                      | EO - 103    | Agricultural Economics -I    |
| 2                      | EO - 104    | Statistics for Economics- I  |
| 3                      | EO - 105    | History of Economics Thought |
| 4                      | EO - 106    | Econometrics -I              |
| 5                      | EO– 107     | Public Economics             |

**M. A.– SEMESTER II<sup>nd</sup>**

| Sr. No.                | Course Code | Title of Course              |
|------------------------|-------------|------------------------------|
| <b>CORE COURSES</b>    |             |                              |
| 1                      | EC - 201    | Micro Economics – II         |
| 2                      | EC - 202    | Macro Economic Analysis -II  |
| <b>OPTIONAL PAPERS</b> |             |                              |
| 1                      | EO - 203    | Agricultural Economics -II   |
| 2                      | EO - 204    | Statistics for Economics- II |
| 3                      | EO - 205    | Industrial Economics         |
| 4                      | EO - 206    | Environmental Economics      |
| 5                      | EO - 207    | Econometrics -II             |

## M. A. –SEMESTER III<sup>rd</sup>

| Sr. No.                 | Course Code | Title of Course                       |
|-------------------------|-------------|---------------------------------------|
| <b>CORE COURSES</b>     |             |                                       |
| 1                       | EC - 301    | Economics of Growth & Development – I |
| 2                       | EC - 302    | International Trade & Finance-I       |
| <b>OPTIONAL PAPERS</b>  |             |                                       |
| 1                       | EO - 303    | Labour Economics                      |
| 2                       | EO - 304    | Indian Economic Policy –I             |
| 3                       | EO - 305    | Economics of Infrastructure           |
| 4                       | EO – 306    | Research Methodology -I               |
| 5                       | EO - 307    | Financial Institute and Market-I      |
| <b>Credit by Choice</b> |             |                                       |
|                         | Se-1        | Money and Banking                     |
|                         | Ws-1        | Urban and Rural Economy               |

## M. A.–SEMESTER IV<sup>th</sup>

| Sr. No.                 | Course Code | Title of Course                        |
|-------------------------|-------------|--|
| <b>CORE COURSES</b>     |             |  |
| 1                       | EC - 401    | Economics of Growth & Development – II |
| 2                       | EC - 402    | International Trade & Finance-II       |
| <b>OPTIONAL PAPERS</b>  |             |  |
| 1                       | EO - 403    | Indian Economic Policy –II             |
| 2                       | EO - 404    | Research Methodology -II               |
| 3                       | EO - 405    | Rural Development                      |
| 4                       | EO - 406    | Welfare Economics                      |
| 5                       | EO - 407    | Financial Institutions & Markets -II   |
| <b>Credit by Choice</b> |             |  |
|                         | Se-2        | Economics of Marketing                 |
|                         | Ws-2        | Poverty and Income Distribution        |

**Notes:**

- a) EC-101 to EC-102, EC-201 to EC-202, EC-301 to EC-302, EC-401 to EC-402, papers (8 Papers) are Compulsory.
- b) Student can select any two papers from Optional category for I & II semester.
- c) Student can select any two papers from Optional category or one paper from Optional category and one paper from credit by choice category for III & IV semester.
- d) Each paper will be of 100 marks. (Semester Examination 80 Marks, CIE 20 Marks)
- e) The syllabi of each paper per semester is spread over 60 instructional hours.

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

**Semester - I Compulsory Paper  
EC – 101 : Micro Economics – I**

**Unit 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

**Unit 2 : Demand Analysis - I**

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

**Unit 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

**Unit 4 : Theory of Production and Costs**

- 4.1 Production Function :- Law of Variable Proportions and Returns to Scale.
- 4.2 Iso-quants :- Properties , Producer's equilibrium
- 4.3 Economies of Scale: - Internal Economies and Diseconomies, External Economies and Diseconomies.
- 4.4 Linear Homogenous Production Function
- 4.5 Cobb- Douglas (C-D) Production Function
- 4.6 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.

# **EC – 102 :Macro Economic Analysis-I**

## **Unit 1 : National Income and macro economic analysis**

- 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.
- 1.4 Meaning, concept, importance and limitation of Macro Economics

## **Unit 2 : Supply of Money**

- 2.1 Composition of money supply and determinants 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 RBI's money measures

## **Unit 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 Portfolio balance Approach – Baumol and Tobin.

## **Unit 4 : Consumption Function**

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

## **Books Recommended :**

- 1 d 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

## EO – 103 :Agricultural Economics

### **Unit 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 Agricultural development : poverty and environment.
- 1.4 Recent Trends in agricultural development in India.

### **Unit 2 : Rural Economic Activities and rural infrastructure :**

- 2.1 Livestock resources and productivity, White revaluation, Fishery and poultry development
- 2.2 Issues and problems of rural industrialization
- 2.3 Development of agro based industries
- 2.4 Rural transport, communication, banking and problems of rural electrification
- 2.5 Rural social infrastructure : Education and health.

### **Unit e 3 : Agriculture production and productivity:**

- 3.1 Agriculture production : Resource use and efficiency
- 3.2 Production function analysis in agriculture, factor combination and resource substitution
- 3.3 Technical change, labour absorption and gender issues in agriculture services
- 3.4 Farm Budgeting and cost concepts

### **Unit 4 : Land Reforms and land Policy**

- 4.1 Land distribution : structure and trends
- 4.2 Land tenures and farming system : peasant, capitalist, collective and state farming
- 4.3 Land reform measures and performance
- 4.4 Problems of marginal and small farmers.

## 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., 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 Kahlan 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 JaipurVol- 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,

# EO – 104 :Statistics for Economics - I

## Unit 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

## Unit 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

## Unit 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

## Unit 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, McGraw 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.

# EO – 105 : History of Economic Thought

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

**Unit 2 :** Sismondi, St. Simon, Robert Owen, Proudhon.

**Unit 3 :** Marxism, Fabianism, Guild Socialism, Marshall, Keynes.

**Unit 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

# EO – 106 : Econometrics – I

## Unit 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.

## Unit 2 : Problems in Regression Analysis

- 2.1 Multi collinearity: 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

## Unit 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

## Unit 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.

# **EO – 107: Public Economics -I**

## **Module 1 : Introduction**

- 1.1 The Role and function of the Government in an economy
- 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 Mixeded Goods.

## **Module 2 : public Expenditure and Taxation**

- 2.1 Structure and growth of public expenditure
- 2.2 Reforms in expenditure budgeting
- 2.3 Theory of incidence : alternative concepts of incidence
- 2.4 Theory of optimal taxation and problem of double taxation

## **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
- 3.4 Economic Reforms in Direct and Indirect Taxes

## **Module 4 : Fiscal Policy and Federal Finance**

- 4.1 Indian Fiscal Policy since 1991.
- 4.2 Interdependence of fiscal and monetary policies
- 4.3 Transfer 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 Chellaih, Raja J.(eds,)(1997), Towards Sustainable Growth, Oxford University Press, New Delhi.

**M.A. PART – I EXAMINATION ECONOMICS**  
**Semester - II Compulsory Paper**  
**EC – 201 : Micro Economic –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.

## **EC – 202 :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 –

### **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 Friedman's Expectation model
- 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.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 - II Optional Paper**

## **EO – 203 :Agricultural Economics – II**

### **Module 5 : Rural labour market**

- 5.1 Labour supply, mobility of labour and segmentation in labour markets
- 5.2 Marginalisation of rural labour
- 5.3 Nature, extent and trends in rural unemployment
- 5.4 Agriculture wages in India, male female wage differences

### **Module 6 : Rural finance and Cooperation in India**

- 1.1 Role of capital and rural credit
- 1.2 Characteristics and sources of rural credit
- 1.3 Rural credit institutions : Commercial banks, cooperatives, regional rural banks and NABARD
- 1.4 Agricultural cooperatives in India : problems and prospects

### **Module 7 : Agricultural Prices**

- 7.1 Agriculture markets and market efficiency
- 7.2 Regulated markets and marketable surplus
- 7.3 State policy regarding agricultural marketing
- 7.4 Warehousing and crop insurance
- 7.5 Objectives of agricultural price policy : instruments and evaluation
- 7.6 Food security and public distribution system

### **Module 8 : Agricultural growth and external sector**

- 8.1 Recent trends in agricultural growth in India
- 8.2 Cropping pattern shifts, Prices of inputs and subsidies
- 8.3 Role of public investment and capital formation in India
- 8.4 Sustainable agriculture
- 8.5 Role of World Trade Organisation, Role of NMCs

## 8.6 Impact of WTO 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. H, 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, 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 Dewett Kewal : 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 Gulab Nath 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 Hanumantha Rao, 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 Kahlan 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 Kitab Mahal 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 Jaypur Vol- I & II
- 35 Subba Rao, K, and Ajain DeJanuary (1986), Agricultural Price Policy and Income Distribution in India, Oxford University Press, New Delhi.

## **EO – 204 :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.and R.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.

## **EO – 205 : 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 H,Mumbai.
- 5 Kuchhal, S.C. (1980):Industrial Economy of India (5th Edition),Chaitanya Publishing H, Allahabad.
- 6 Sai Singh, A. and A.N.Sadhu (1988) : Industrial Economics, Himalaya Publishing H,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 PR.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.

## **EO – 206 : Environmental Economics**

### **Unit 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

### **Unit 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.

### **Unit 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.

### **Unit 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., Kadekodi G.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.
- 10 Markandya, A. and M. N. Murty (2000), Cleaning up the Ganges: Cost-Benefit Analysis of Ganga Action Plan, Oxford University Press, New Delhi.
- 11 Mehta, S.S Mundle and U. Sankar : Controlling pollution: Incentives and Regulation, SAGE, New Delhi - 1995

# **EO – 207 : 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; Hotelling 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.

**Semester Pattern Scheme of Examinations for Economics**

**Ma Part - Semester I**

|                          |                |                              |            | Examination |            | Internal Assessment |         | Total |         |     |    |
|--------------------------|----------------|------------------------------|------------|-------------|------------|---------------------|---------|-------|---------|-----|----|
|                          |                |                              |            | Marks       | Credits    | Marks               | Credits | Marks | Credits |     |    |
| Paper - I                | Compulsary     | Micro Economics – I          | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
| Paper - II               | Compulsary     | Macro Economic Analysis-I    | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
| Paper - III & Paper - IV | Choose any Two | Agricultural Economics - I   | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
|                          |                | Statistics for Economics- I  | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
|                          |                | History of Economics Thought | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
|                          |                | Econometrics -I              | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
|                          |                | Public Economics             | Full Marks | 80          | 4          | 20                  | 1       | 100   | 5       |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4       | 40    | 2       |     |    |
|                          |                | <b>Total</b>                 |            |             | Full Marks | 320                 | 16      | 80    | 4       | 400 | 20 |
|                          |                |                              |            |             | Pass Marks | 128                 | 64      | 32    | 16      | 160 | 8  |

**Ma Part - Semester II**

|                          |                |                              |            | Examination |            | Internal Assessment |    | Total |    |     |    |
|--------------------------|----------------|------------------------------|------------|-------------|------------|---------------------|----|-------|----|-----|----|
| Paper - I                | Compulsary     | Micro Economics – II         | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
| Paper - II               | Compulsary     | Macro Economic Analysis-II   | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
| Paper - III & Paper - IV | Choose any Two | Agricultural Economics -I I  | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
|                          |                | Statistics for Economics- II | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
|                          |                | Industrial Economics         | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
|                          |                | Environmental Economics      | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
|                          |                | Econometrics -II             | Full Marks | 80          | 4          | 20                  | 1  | 100   | 5  |     |    |
|                          |                |                              | Pass Marks | 32          | 16         | 8                   | 4  | 40    | 2  |     |    |
|                          |                | <b>Total</b>                 |            |             | Full Marks | 320                 | 16 | 80    | 4  | 400 | 20 |
|                          |                |                              |            |             | Pass Marks | 128                 | 64 | 32    | 16 | 160 | 8  |

**Ma Part - Semester III**

|                          |                |                                       | Examination |                         | Internal Assessment |    | Total |     |    |     |   |
|--------------------------|----------------|---------------------------------------|-------------|-------------------------|---------------------|----|-------|-----|----|-----|---|
| Paper - I                | Compulsary     | Economics of Growth & Development – I | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
| Paper - II               | Compulsary     | International Trade & Finance-I       | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
| Paper - III & Paper - IV | Choose any Two | Labour Economics                      | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Indian Economic Policy –I             | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Economics of Infrastructure           | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Research Methodology -I               | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Financial Institute and Market-I      | Full Marks  | 80                      | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |                                       | Pass Marks  | 32                      | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Credit by Choice                      |             | Money and Banking       | Full Marks          | 80 | 4     | 20  | 1  | 100 | 5 |
|                          |                |                                       |             | Urban and Rural Economy | Pass Marks          | 32 | 16    | 8   | 4  | 40  | 2 |
| Total                    |                |                                       | Full Marks  | 320                     | 16                  | 80 | 4     | 400 | 20 |     |   |
|                          |                |                                       | Pass Marks  | 128                     | 64                  | 32 | 16    | 160 | 8  |     |   |

**Ma Part - Semester IV**

|                          |                |  | Examination |                                 | Internal Assessment |    | Total |     |    |     |   |
|--------------------------|----------------|--|-------------|---------------------------------|---------------------|----|-------|-----|----|-----|---|
| Paper - I                | Compulsary     | Economics of Growth & Development – II | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
| Paper - II               | Compulsary     | International Trade & Finance-II       | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
| Paper - III & Paper - IV | Choose any Two | Indian Economic Policy –II             | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Research Methodology -II               | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Rural Development                      | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Welfare Economics                      | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Financial Institutions & Markets -II   | Full Marks  | 80                              | 4                   | 20 | 1     | 100 | 5  |     |   |
|                          |                |  | Pass Marks  | 32                              | 16                  | 8  | 4     | 40  | 2  |     |   |
|                          |                | Credit by Choice                       |             | Economics of Marketing          | Full Marks          | 80 | 4     | 20  | 1  | 100 | 5 |
|                          |                |  |             | Poverty and Income Distribution | Pass Marks          | 32 | 16    | 8   | 4  | 40  | 2 |
| Total                    |                |  | Full Marks  | 320                             | 16                  | 80 | 4     | 400 | 20 |     |   |
|                          |                |  | Pass Marks  | 128                             | 64                  | 32 | 16    | 160 | 8  |     |   |

**Notes:**

a) EC-101 to EC-102, EC-201 to EC-202, EC-301 to EC-302, EC-401 to EC-402,

papers (8 Papers) are Compulsory.

b) Student can select any two papers from Optional category for I & II semester.

c) Student can select any two papers from Optional category or one paper from Optional category and one paper from credit by choice category for III & IV semester.