Faculty of Art P.K.University Shivpuri (MP)



Evaluation Scheme & Syllabus Master of Art (MA)- Economics (*Effective from 2019-20*)

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P. K UNIVERSITY SHIVPURI MP M.A. (Economics) SCHEME OF SYLLABUS

SEMESTER: I

PAPER CODE COURSE

MA (ECO) 101	Micro Economic Analysis-I
MA (ECO) 102	Macro Economics
MA (ECO) 103	Public Economics
MA (ECO) 104	Quantitative Techniques

SEMESTER: II

PAPER CODE COURSE

MA (ECO) 201	Micro Economic Analysis-II
MA (ECO) 202	Monetary Economics and Banking
MA (ECO) 203	Research Methods and Statistical Inference
MA (ECO) 204	International Economics

SEMESTER: III

PAPER CODE COURSE

MA (ECO) 301	Economics of Growth and Development
MA (ECO) 302	Environmental Economics
MA (ECO) 303	One Optional paper from Group-A
MA (ECO) 304	One Optional paper from Group-A
	(Other than chosen earlier)

SEMESTER: IV

PAPER CODE

COURSE

MA (ECO) 401	Indian Economy
MA (ECO) 402	Indian Foreign Trade and International Institutions
MA (ECO) 403	Choose corresponding paper from Group B of the paper choosen
	from Group-A in III Semester
MA (ECO) 404	Choose corresponding paper from Group B of the paper choosen
	from Group-A in III Semester

GROUP – A

GROUP - B

OptA-1	Industrial Economics-I	OptB-1	Industrial Economics-II
OptA-2	Industrial Relations and	OptB-2	Industrial Relations and
	Labour Legislation-I		Labour Legislation-II
OptA-3	Computer Application in	OptB-3	Computer Application in
	Economics-I		Economics-II
OptA-4	Econometrics-I	OptB-4	Econometrics-II
OptA-5	Agricultural Economics	OptB-5	Rural Development

- **NOTE:** Students have to choose two subjects. They have to study two papers of those subjects from Group-A in III Semester and corresponding two papers of same subjects from Group-B in IV semester.
- **Marking:** Each paper contains 100 marks (theory 85 marks and CCE 15 marks). Total marks in each semester 400 and total marks of the programme is 1600.

M.A. (ECONOMICS), FIRST SEMESTER

COMPULSORY PAPER

101 – MICRO ECONOMIC ANALYSIS-I

UNIT - I Introduction : Basic Economic Problem – Scarcity and choice. Micro-Economics– Meaning, Scope, Significance and Limitations, Relationship between Micro and Macro-economic analysis. Methods of Economic

Micro and Macro-economic analysis. Methods of Economic Analysis: - Deductive and Inductive, Economic, Statics and Dynamics, Positive and Normative Economics, Partial and General Equilibrium Analysis.

UNIT - II Demand Analysis : I

Theory of utility and Consumer Behaviour – Indifference Curve Analysis – Definition and Properties, Consumer's Equilibrium, Price, Income and Substitution Effects, Slutsky Theorem, Engel's Curve, Derivation of Demand Curve.

UNIT- III Demand Analysis: II

Strong and Weak Ordering Hypothesis. Hicks concept of strong and weak ordering. Samuelson's Theory of Revealed Preference. Fundamental Theorem of Consumption Theory. Consumers' Surplus-Marshall and Hicks Measure of Consumers' Surplus.

UNIT- IV Supply Analysis :

Theory of Production – Production Function-short and Long run Production Function. Cobb-Douglas Production Function, Law of Variable Proportions and Returns to Scale, Isoquants – Optimum Factor Combination – Producer's Equilibrium, Expansion Path, Ridge Lines and Economic Region of Production.

UNIT - V Welfare Economics:

Meaning, Nature, Role of Value Judgement, Pigovian Welfare Economics-Duel Criteria, Pareto's Welfare Economics – Marginal conditions for Pareto's optimum and Unanimity Rule. Social Welfare Function, Compensation Principle, Arrow's Impossibility Theorem.

M.A. (ECONOMICS), FIRST SEMESTER

COMPULSORY PAPER

102 – MACRO ECONOMICS

- UNIT I Nature of Macro Economics, Basic Concept Stock and Flow Variables. National Income and Its measurement, GDP and GNP, Importance of NI Estimation, NI and Economic Welfare, NI estimation in India.
- UNIT II Income Determination in closed and open economy. Consumption Function APC-MPC, Factors affecting Consumption Function, Social Accounting.
- **UNIT-III** The component of Money Supply, Interest rate and theory of Liquidity preference. IS-LM Analysis, Monetary policy and its instruments.
- UNIT- IV Theories of Employment Classical theory : Say's law of market. Pigou's employment theory, Keynesian theory of employment, Keynes Vs. Classics.
- **UNIT V** Investment Function, Determinants of Investment MEC, MEL, Saving Function, Paradox of thrift, Investment Multiplier, Theory of Acceleration.

M.A. (ECONOMICS), FIRST SEMESTER

COMPULSORY PAPER

103 – PUBLIC ECONOMICS

UNIT - I	Nature and Scope of Public Economics, Role of Govt. in Organised Society, Concept of Public Goods, Private Goods and Merit Goods, Theory of Maximum Social Advantage- Dalton, Pigou and Musgrave.
UNIT - II	Public Expenditure – Wagner's Law of increasing state activities, Wiseman peacock Hypothesis, Principles of Public Expenditure Structure and Growth of Public Expenditure in India.
UNIT - III	Sources of Public Revenue – Tax Revenue and Non Tax Revenue, Types of Taxes, Taxable Capacity, Theory of Incidence of Taxation, Ability to Pay Theory, GST.
UNIT - IV	Public Debt - Meaning and Sources, Burden of Public debt, Debt Repayment, Public Debt Management, Public Debt in India.
UNIT - V	Fiscal Federalism in India, Recommendation of latest Finance Commission, Budget - Meaning and Preparation, Fiscal Policy, Deficit Financing.

M.A. (ECONOMICS), FIRST SEMESTER

COMPULSORY PAPER

104 – QUANTITATIVE TECHNIQUES

- UNIT I Definition, Importance and Scope of statistics, Measures of Central tendency, Measures of dispersion and skewness; Correlation Analysis: Correlation Coefficient, Methods of Computing simple correlation, concept of probable Error, Spearman's coefficient of Rank correlation.
- UNIT II Linear and Simultaneous Equations up to Three Variables and its Application in Economics, e.g., Calculation of equilibrium Prices, Impact of Tax and Subsidy on Demand and Supply Model Calculations of Factor Prices. Calculations of Macro Economic Variables.
- **UNIT-III** Simple Differentiation and its Application in Economics i.e., Calculation of Elasticity Coefficient, Marginal Cost and Revenue, Productivity.
- **UNIT- IV** Regression Analysis: Concept, Regression lines, Finding regression coefficient and equations. Interpolation and Extrapolation; Concept, significance, assumptions, methods of Interpolation and extrapolation, Binomial Expansion Method, Newton's Divided Difference Method, Lagrange Method.
- **UNIT V** Index Numbers: A Conceptual frame work, uses, types, problems in construction of index number, The chain index numbers, Base shifting and deflating the index numbers, cost of living index numbers.

M.A. (ECONOMICS), SECOND SEMESTER

COMPULSORY PAPER

201 – MICRO ECONOMIC ANALYSIS-II

UNIT - I Cost and Revenue Analysis: Cost Analysis – Short-run and Long-run cost functions and curves. Prime and Supplementary Costs-Total, Average and Marginal Cost Curves, Incremental and Marginal Costs. Revenue Analysis – Total, Average and Marginal Revenue, Incremental and Marginal Revenue. Average and Marginal Revenues curves under different market Conditions.

UNIT - II Market Equilibrium :

Perfect Competition – Prices and Output determination, Short and Long-run Equilibrium of the firm and Industry, Monopoly – Short and Long-run Equilibrium Discriminating Monopoly – Definition and Equilibrium under Discriminating Monopoly.

UNIT- III Market Equilibrium :

Monopolistic Competition–Chamberlain's Approach Imperfect Competition – Mrs. Joan Robinson's Approach, Equilibrium of the firm and group with product Differentiation and Selling costs. Theory of ExcessCapacity, Oligopoly-non-Collusive Model–Sweezy Model of kinked Demand curve, Price – rigidity, Collusive Model Market sharing cartels and Price-leadership.

UNIT- IVTheories of Distribution :
Factor Productivity and Factor Cost, Marginal Productivity Theory,
Clark's Theorem of Product Exhaustion.
Profit – Meaning and Nature, Knight's Theory and Schumpeterian
Theory of Profit.

UNIT - V Theories of Distribution: Wages – Meaning and Nature, Wages under competitive and Noncompetitive conditions. Rent – Meaning and Nature, Modern Theory of Mrs. Joan Robinson, Comparison between Ricardian and Robinson;s Theories.

M.A. (ECONOMICS), SECOND SEMESTER

COMPULSORY PAPER

202 – MONETARY ECONOMICS AND BANKING

- UNIT I Theories of Value of Money Fisher, Cash Balance Approach, Keynes theory of Money and Prices, Milton Friedman Theory, Don Patinkin's Theory of Real Balance Effect.
- **UNIT II** Liquidity Approach to Quantity of Money, Tobin's approach of Portfolio Balance, Measures of Money Stock, Reserve Bank of India, Method of Note issue in India.
- UNIT-III Inflation Meaning and Types, Inflation, Deflation, Reflation and Disinflation, Measurement of inflation, Inflation and Indian Economy, Method to check inflation, Relationship between inflation and unemployment, Philips Curve.
- **UNIT- IV** Banking system in India, Types of Banks, Functions of Commercial banks, Credit creation by Commercial Banks, New Trends in Commercial Banking.
- UNIT V Business Cycle Meaning and Nature, Phases of Trade Cycles, Theories of Trade Cycle–NonMonetary Theories, Monetary Theories - Schumpeter, Samuelson and Hicks, Measures to control evil effects of Business Cycle.

COMPULSORY PAPER

203 – RESEARCH METHODS AND STATISTICAL INFERENCE

UNIT - I	Meaning and Concept of Research, Types of Research, Steps in Scientific Research, Research Design, Sampling Techniques and Techniques of data collection, Research report Writing.
UNIT - II	Analysis of Time Series – Introduction, Utility and Components of Time Series, Measurement of Trend by Graphic Method, Semi- Average and Moving Average method and Least Squares Method.
UNIT- III	Probability and its Theorems: Concept and Definition, Calculation of Probability, Theorems Addition Theorem and Multiplication Theorem, Theoretical Probability, Distribution: Normal, and Binomial Distribution.
UNIT- IV	Test of Hypothesis: Procedure of Testing Hypothesis, Standard Error and Sampling Distribution, Estimation, Significance of Attributes, Large Samples and Small Samples, T, F & Z test.
UNIT - V	Chi Square Test and Goodness of Fit and Analysis of Variance.

COMPULSORY PAPER

204 – INTERNATIONAL ECONOMICS

- UNIT I Distinguishing features of Interregional and International trade; Differences and Similarities between inter-regional and international trade; Importance and Scope of International Trade. International division of labour and specialization; Smith's theory of Absolute Difference in costs; Ricardo's theory of comparative differences in costs and its application in underdeveloped countries.
- **UNIT II** Mills theory of Reciprocal Demand; Concept of Offer Curves: Explanation of Mill's concept of Reciprocal Demand with the help of Marshall's Offer Curves, International Trade Equilibrium; Some analytical tools-Offer curves Production Possibility Curves; the Community indifference Curves.
- **UNIT-III** Haberler's Theory of Opportunity Costs; International trade under constant increasing and decreasing opportunity costs. The modern theory of Factor Endowments; its explanation under price criterion and physical criterion, Its superiority over the classical theory; Leontief Paradox.
- **UNIT-IV** International trade and factor prices, Samuelson's Factor Price Equalization Theorem. The Terms of Trade – Meaning and various concepts of Terms of Trade; Factors affecting the Terms of Trade; Terms of Trade and underdeveloped countries.
- **UNIT V** Tariffs meaning and types: Optimum tariff and welfare; Effects of tariff on income distribution. The Stopler Samuelson theorem, Dumping: Types, Objectives and effects of dumping; Current incidence of dumping in India and its impact on our economy; Anti-dumping measures.

M.A. (ECONOMICS), THIRD SEMESTER

COMPULSORY PAPER

301 – ECONOMICS OF GROWTH AND DEVELOPMENT

UNIT- I	Concept of Growth and Development, Determinants of Economic Growth, Indices of Development – Human Development Index, Gross National Happiness Index (GNHI), PQLI, Dualism, Real cost of Development.
UNIT - II	Theories of Development – Classical, Marx, Schumpeter Model, Nelson Theory, Harrod Domar Model, Joan Robinson's Model of Growth.
UNIT- III	Theory of Balanced Growth – Nurkse and Lewis Growth model with unlimited supply of labour, Theory of unbalanced Growth – Hirschman, Leibenstien's model of growth.
UNIT- IV	Rostows stages of growth, Mahalnobis Model, Ranis – Fei model, Kaldor's model of distribution.
UNIT - V	Problems of Capital formation for economic development, Investment allocation, Cost benefit analysis, Choice of Techniques – Labour V/s. Capital intensive techniques, Appropriate and Intermediate Technology.

M.A. (ECONOMICS), THIRD SEMESTER

COMPULSORY PAPER

302 – ENVIRONMENTAL ECONOMICS

- UNIT-I Meaning of Environmental Economics. Inter linkages between economics – environment and ecology; Environment quality as a public good; National Income Accounting and Environment; Environmental Problems of Economy.
- **UNIT II** Economics of Pollution, Impact of water pollution and air pollution on economy, Sustainable industrialization, Sustainable development.
- **UNIT-III** Social Cost Benefit Analysis- Methods, Application and Limitations, Environment Impact Analysis (EIA); Environment Impact Statement (EIS); Environment Auditing (E.A.).
- UNIT-IV Global Environmental Problems- Global Warming, Acid Rains, Deforestation, Impact of Climate Change on Economy, Earth Summits.
- **UNIT V** Constitutional rights and duties regarding environment; Salient features of National Environment Policy 2006; The Environment (Protection) Act 1986.

JIWAJI UNIVERSITY, GWALIOR M.A. (ECONOMICS), THIRD SEMESTER

OPTIONAL PAPER

Opt. A -1 – INDUSTRIAL ECONOMICS-I

UNIT- I	Industrialization – Meaning and Importance, Process of industrialization. Problem of industrialization, Classification of industries – size based, use based, input based, proprietary based. Dangers of Heavy Industrialization.
UNIT - II	Industrial Combination – Definition, advantages and disadvantages, Forms and Types of industrial combinations. Localization of Industries – Concept and significance. Theories of industrial combination – Weber and Sargent Florence.
UNIT- III	Role of Govt. in industrial development, Licensing policy, Industrial policy – 1948 Policy, 1956 Policy, 1991 Industrial Policy.
UNIT- IV	Industrial Productivity – Concept, Types, Measurement, Partial and Total trends, Productivity movement in India. Rationalization – Meaning, Objective, Aspects, Problems, Govt. Policies towards Rationalization, Modernization in Indian Industries.
UNIT - V	Industrial Sickness – Definition, Extent of Industrial sickness in Indian Industries, Causes of sickness, Harmful effect of sickness, Measures to remove industrial sickness. Concentration of economic power and monopoly, Measures to check monopoly, UTP and RTP provisions, Competition Act

M.A. (ECONOMICS), THIRD SEMESTER

OPTIONAL PAPER

Opt. A -2 – INDUSTRIAL RELATIONS AND LABOUR LEGISLATION-I

UNIT- I Industrial Labour – Characteristics, Types. Growth of Labour market in India. Industrial Relations - Meaning, Scope and components of Indian Industrial Relation System. Meaning of Human Relation (HR), Industrial Relations V/s. Human Relations. UNIT - II Various concepts of Wages – Fair wages, Living wages, Minimum wages, Methods of wage payment, Minimum wages Act, 1948, Wage policy in India. UNIT-III Bonus: Origin of Bonus payment, Concept, Need. Bonus payment in India. Payment of Bonus Act, 1965. Problems related to Bonus in India. Industrial Disputes - Meaning, Types, Causes, Consequences, UNIT-IV Prevention and Settlement, Industrial Disputes Act, 1947 and its amendments UNIT - V Collective Bargaining - Definition, Scope, Objective, Process, Forms, Advantages, Disadvantages, Collective Bargaining in India. Problems of Child Labour and Women Labour, Measures to prevent

child labour.

M.A. (ECONOMICS), THIRD SEMESTER

OPTIONAL PAPER

Opt. A -3 – COMPUTER APPLICATION IN ECONOMICS-I

- **UNIT-I** Introduction to modern digital computers, Block diagram of a computer : Central processing unit, Computer peripherals : input and output devices; Introduction and use of Memory, different types of memories and their uses, Introduction to Computer instruction and program, Differences between high and low-level programming languages, Motivation of high level language.
- **UNIT II** Data type and data representation in computers, Number systems, interconversion of numbers, Flow-chart and algorithm with few example based on statistical functions used in economics, Introduction to Computer software and instructions.
- **UNIT-III** Historical perspective of operating systems, Introduction to MS-DOS operating system, Concepts of batch processing, multi-programming, time-sharing, real-time and multiprocessor systems, single-user / multi-user Operating systems, single task / multi task Operating systems, Operating system services : File and memory management, File types, Device directory, Directory systems.
- **UNIT-IV** Introduction to Windows, GUI, Introduction of Windows components : control-panel and its uses (add / remove hardware, add or remove software, device manager, devices and printers, fonts, network and sharing center, backup and restore, Windows update, power options, phone and modem, display, folder options, date and time, recovery, sound, user account), desktop, taskbar, Icon and shortcut.
- UNIT V Introduction to MS-Word, File operations : creating, editing / modifying, saving and printing a document file, format paragraph, line spacing, space before and after paragraph, margins and gutters, page break, repagination, sections, creating headers and footers, setting and clearing tabs, table insertion, use of micro, table insertion, table operations : deleting column or row, insertion of column or row, controlling row height / column width, formatting cell / column / row, mail-merge (Letters / Envelope / e-mail / levels) and its uses.

M.A. (ECONOMICS), THIRD SEMESTER

OPTIONAL PAPER

Opt. A -4 – ECONOMETRICS-I

- UNIT-I Statistical Inference: Random Variable, Expectation of Random Variable, Sampling distribution and Standard Error, Testing of Hypothesis, Level of Significance and confidence limit, Hypothesis Testing for Mean, difference between means, Proportions and difference between proportions. Small Sample and Large Sample Test, F-Test, Estimation and Properties of Good Estimates.
- UNIT II Meaning and Methodology of Econometrics – Nature and Scope of Econometrics. The Nature of Regression Analysis and basics of Two-Variable Regression Analysis. Estimation and Hypothesis Testing. Extensions of the Two-variable Linear Regression Model, Multiple Regression Model, Estimation and Inference.
- **UNIT-III** Nature, Consequences, Detection and Remedial Measure of Multi Collinearity Heteroscedasticity and Autocorrelation.
- **UNIT-IV** Regression on Dummy Variable, Dynamic Econometrics Models: Autoregressive and Distributed Lag Models.
- UNIT V Systems of Equations, Identification and Estimation Methods (ILS and 2 SLS), Business Applications of Single Equation Econometrics Model and Systems of Equations.

OPTIONAL PAPER

Opt. A -5 – AGRICULTURAL ECONOMICS

- UNIT-I Agricultural Economics Meaning ,Nature and Scope, Role of Agriculture in Indian Economy- i) Employment Generation ii) Contribution to GDP and iii) Agriculture Based Industry Prospects. Stages of Agriculture Development, Lewis Model and Rene- Fei contribution, Indian Agriculture Policy.
- UNIT II Optimum Combination problems in Agriculture input (inferences to land, Labour and capital). Rental Agriculture Input Practices (as Tractor on Rent), Agriculture System and their types co operative v/s private Agriculture Holdings. Land Reforms in India and M.P.
- UNIT-III Agricultural Finance- source, types and problems. Role of National Bank for Agriculture and Rural Development (NABARD) and Regional Rural Banks (RRBs) in Agriculture Credit. Debt Relief Policies of Indian Government and Madhya Pradesh Government. Farmer Pension Scheme. Pradhan Mantri Fasal Bima Yojana. Agricultural Marketing- types and problems. Fluctuations in Agricultural Prices, Agriculture Private Policy, Minimum Support Price. Bhawanter Bhugtan Yojana of Madhya Pradesh Government.
- UNIT- IV Agriculture Development in Planned Periods Food Grain Production and Productivity Growth of Major Agricultural Produces, Irrigation Capacity Augmentation and Storage of Food Grain. Technological Development in Agriculture, Dry Farming, Green Revolution. Farm Management
- **UNIT V** Issues of Indian Agriculture in Global Perspective. Provisions regarding Agriculture in W.T.O. Trends of Main Agricultural Exports of India. Agriculture Development in Madhya Pradesh, Agriculture related problems and suggestions in Madhya Pradesh

COMPULSORY PAPER

401 – INDIAN ECONOMY

- UNIT-I Basic economic indicators, Sectors of Indian Economy Primary, Secondary and Tertiary, Demographic Trends and Population policy, National Income.
- **UNIT II** Agriculture cropping pattern, Productivity, Mechanization and Green Revolution, Marketing of Agriculture Produce and Agriculture Pricing, Problems of Indian Agriculture, GDP, NNP, GVA etc.
- UNIT-III Economic Planning in India Objective, Types of Plans, Planning strategy in India, Problems of Planning in India, NITI Aayog, Make in India, Startup India, Skill India
- **UNIT-IV** Infrastructure and Economic Development in India, Energy, Transport System, Communication system, Science & Technology, Foreign Trade – Trends, Balance of Payment.
- **UNIT V** Trends in Revenue and Expenditure of Central Govt. in India, GST, Analysis of latest Union Budget, Problem of Rising Prices, Poverty and unemployment.

COMPULSORY PAPER

402 – INDIAN FOREIGN TRADE AND INTERNATIONAL INSTITUTIONS

- UNIT-I Foreign Trade and Economic Development, Meaning and Components of Balance of Payments, Equilibrium and disequilibrium of Balance of Payments. Factors causing disequilibrium in balance of payments, Technical Progress and International Trade.
- **UNIT II** Adjustment mechanisms of Balance of Payments Under Gold Standards, Under-flexible exchange rates (price effect), Under elasticity approach, Marshall Lerner condition, Under capital movements and direct control for adjustment. Foreign Trade Multiplier and determination of Income.
- UNIT-III Concept of Foreign exchange rate, Determination of Equilibrium exchange rate. Theories of exchange rate determination the purchasing power partiy theory and the Balance of Payment theory. Factor causing changes in exchange rates, Relatives merits and demerits of fixed and flexible exchange rates, concepts of spot and forward exchange rates, convertibility of currency.
- **UNIT-IV** Exchange control-meaning, features, objectives and methods of exchange control. Devaluation Devaluation of Indian Rupee and its impact on our economy. Free Trade versus protection, cases for and against.
- **UNIT V** World Trade Organization Functions, structure objectives and Working of WTO, India and WTO, Trade Blocks EU, NAFTA, ASEAN, International Monetary Fund (IMF) - origin, objectives, function and working of the fund, India & IMF, World Bank-Objective and functions, India and the World Bank. Foreign Trade and BOP in India, Major problems of Indian export sector.

OPTIONAL PAPER

Opt. B -1 – INDUSTRIAL ECONOMICS-II

- **UNIT-I** Sources of industrial finance, Equity, Debt, Role and growth of major funding agencies IDBI, IFCI, ICICI, SIDC, Commercial Banks.
- UNIT II Public Sector Industries Objective, Growth, Shortcomings, Measures to improve working of PSU.
 Small Scale Industries, Village and Cottage industries. Role of SSI in Economic, Development, Problems of SSI, Govt. Policy towards SSI.MSME Act
- **UNIT-III** District Trade and Industries Centre, Balanced Regional Development of industries, Regional disparities in industrial growth with special reference to Madhya Pradesh.
- **UNIT-IV** Structure of Industrial Labour, Employment dimensions in Indian industries, Problems of Indian Industrial labour, Govt. Policies, Trends in Wages.
- UNIT V Growth and Current Problems of selected industries in India Iron & Steel, Cotton Textile, Cement, Sugar, I.T.

OPTIONAL PAPER

Opt. B -2 – INDUSTRIAL RELATIONS AND LABOUR LEGISLATION-II

UNIT- I	Labour Welfare – Meaning, Aim, Scope and Classification. Labour welfare activities done by (a) Central Govt. (b) State Govt. (c) Employer (d) Trade Union, Problems related to Labour Welfare.
UNIT - II	Social Security Measures - Meaning, Origin, Growth, Aims and Methods. Various schemes of social security in India. (a) Provident Fund (b) Workmen Compensation (c) Family Pension (d) Employees State Insurance (e) Other Schemes.
UNIT- III	Trade Union – Definition, Need, Approaches, Growth and Functions, Trade Union Movement in India, Trade Union Act, 1926.
UNIT- IV	Workers Participation in Management – Objective, Different Types, Advantages, Level of Participation, Progress of workers participation in Management in Indian Industries. Industrial Relations Act, 1995, its objectives and main provisions.
UNIT - V	Manpower Planning, Education, Training and Development of Manpower.

OPTIONAL PAPER

Opt. B -3 – COMPUTER APPLICATION IN ECONOMICS-II

- **UNIT-I** Introduction to MS-Excel, electronic worksheet / spreadsheet, use of worksheet / spreadsheet, operations on spreadsheet : creating, editing / modifying, formatting, saving and printing spreadsheet, entering and formatting numbers, dates, formulae, referencing cells, single range, mixed, copying entries, auto-fill : numbers, dates, time, protecting and un-protecting sheets and cells, Moving cells, copying cell, sorting cells data, inserting rows and columns, deleting part of worksheet, changing column and row width, types of graphs, creation of graph using data on spreadsheet, graph operations : creating, editing / modifying, formatting, changing graph type, saving and printing of graph.
- **UNIT II** Introduction to Power-point, creating presentations, editing / modifying and saving slides, printing slides and handouts, moving text, tables, graphs and pictures, formatting slides, adding / changing animation, background and borders, creation of hyperlink to other slides and / or other files, adding sound, audio and video to slides.
- UNIT- III Introduction to internet and intranet, Introduction to LAN, MAN, WAN and their uses, topologies used in networking, Introduction to internet protocols, Introduction to IP address, Introduction to e-mail and its uses, Introduction to computer viruses, spam, Trojan, Introduction to Security over the network : anti-virus software, firewall, Introduction to Wi-Fi and Bluetooth, Introduction to website, web browsers and search engine.
- **UNIT-IV** Introduction to database management system (DBMS) : database file creation, type of fields, creating, editing and saving structure of a database, modify structure of the database : rename, add or remove fields, view and edit database.
- **UNIT V** List, browse, append, display database file, delete, replace, recall, update and search records, closing database, printing database, seek, locate, go to record, index and sort database records, time, date, use of mathematical functions, generating and printing of report.

M.A. (ECONOMICS), FOURTH SEMESTER

OPTIONAL PAPER

Opt. B -4 – ECONOMETRICS-II

- **UNIT-I** Regression Analysis and Analysis of Variance. One way, two way analysis of variance.
- **UNIT II** Matrix Approach to Linear Regression Model. Assumptions, OLS Estimation and their properties. Interpretation of Results.
- UNIT-III Autoregressive Model, Distributed Lag Model, Rationalization of Koyek Model. The Adaptive Expectation Model, Partial Adjustment Model, Estimation of Autoregressive Model, Detecting auto correlation in Autoregressive Model. The Almon Approach to Distributed Lag Model.
- **UNIT- IV** Errors in variable, Test of equality between coefficient's (Chow Test) Application of LRM for estimation of Growth rate, demand function, production function.
- UNIT V Mixed Estimation Methods, Restricted Least Squares (RLS), Durbin's Generalized – Least squares and Method of Principal Components. The Maximum likelihood methods.

OPTIONAL PAPER

Opt. B -5 – RURAL DEVELOPMENT

- UNIT-I Introduction Nature of rural economy; Concept and features of rural development; Causes of rural backwardness in India; Importance of rural development for Rural Employment and Income Generation in Indian economy; Relationship of rural development with industrial development and Service sector.
- UNIT II Dimensions of Rural Development Progress after Independence -Irrigation; Electrification and power supply; Rural roads; Health; Education; Banking in rural areas; Sanitation; Safe drinking water; Productivity level.
- UNIT- III Institutions for Rural Development- National Bank for Agriculture and Rural Development(NABARD); Council for Advancement of People's Actions and Rural Technology (CAPART); Panchayati Raj institutions -n Functions and Powers of Panchayats, Progress Evaluation of Rural Development under Panchayats in Madhya Pradesh.
- UNIT- IV Various programmes for rural development in India, Provision of Urban Amenities in Rural Areas (PURA); Mahatma Gandhi Rural Employment Guarantee Act 2005; Pradhan Mantri Gramin Sadak Yojana(PMGSY);Progress Evaluation of Employment Generation Mahatma Gandhi Rural Employment Guarantee Yojana, under Rural housing; Swarnjayanti Gram Swarojgar Yojana(SGSY).
- UNIT V Rural Development in Madhya Pradesh- Madhya Pradesh Rural Livelihood Project; Madhya Pradesh Rural Road Development Authority, Mahatma Gandhi State Institute of Rural Development; Causes of rural backwardness in Madhya Pradesh; Other initiatives for rural development in Madhya Pradesh.