

बिलासपुर विश्वविद्यालय, बिलासपुर (छत्तीसगढ़) SEMESTER SYLLABUS M.A. ECONOMICS

SCHEME OF EXAMINATION AND DISTRIBUTION OF MARKS

At post graduate level candidate required to study 16 compulsory papers and 4 optional papers during 4 Semesters. There shall be 04 compulsory papers and 01 optional paper in I, II, III & IV semester.

Note: It is compulsory for the candidate to qualify first question paper of any one group of the optional paper in semester-I. Similarly one has to qualify the second question paper of the same group in semester-II. In the same way in semester-III & IV it is compulsory for the candidate to qualify both the question paper of any other group.

SEMESTER-I

Paper	Title of the Paper	Internal	Term End	Total
No.		Assessment	Exam	Marks
1.	Micro Economic Analysis	20	80	100
2.	Quantitative Method	20	80	100
3.	Indian Economic Policy	20	80	100
4.	International Trade & Finance	20	80	100
OPTION	OPTIONAL (Choose Any one Group)			
5.	Group A 1. Industrial Economics	20	80	100
5.	Group B 1. Labour Economics	20	80	100
5.	Group C 1. Demography	20	80	100
5.	Group D 1. Agriculture Economics	20	80	100
5.	Group E 1. Computer Application in	20	80	100
	Economic analysis			
			TOTAL	500

SEMESTER-II

Paper	Title of the Paper	Internal	Term End	Total
No.		Assessment	Exam	Marks
1.	Micro Economic Analysis	20	80	100
2.	Research Methodology and	20	80	100
	Computer Application			
3.	Indian Economic Policy	20	80	100
4.	International Trade & Finance	20	80	100
OPTION	PTIONAL (Choose Any one Group)			
5.	Group A 1. Industrial Economics	20	80	100
5.	Group B 1. Labour Economics	20	80	100
5.	Group C 1. Demography	20	80	100
5.	Group D 1. Agriculture Economics	20	80	100
5.	Group E 1. Computer Application in	20	80	100
	Economic analysis			
			TOTAL	500



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SEMESTER-III

Paper	Title of the Paper	Internal	Term End	Total
No.		Assessment	Exam	Marks
1.	Macro Economic Analysis	20	80	100
2.	Public Economics	20	80	100
3.	Economics of Growth	20	80	100
4.	Environmental and Welfare	20	80	100
	Economics			
OPTION	IAL (Choose Any one Group)			
5.	Group A 2. Industrial Economics	20	80	100
5.	Group B 2. Labour Economics	20	80	100
5.	Group C 2. Demography	20	80	100
5.	Group D 2. Agriculture Economics	20	80	100
5.	Group E 2. Computer Application in	20	80	100
	Economic analysis			
			TOTAL	500

SEMESTER-IV

Paper	Title of the Paper	Internal	Term End	Total	
No.	·	Assessment	Exam	Marks	
1.	Macro Economic Analysis	20	80	100	
2.	Public Economics	20	80	100	
3.	Economic Development and	20	80	100	
	Planning				
4.	Economics of Social Sector	20	80	100	
OPTION	IAL (Choose Any one Group)				
5.	Group A 2. Industrial Economics	20	80	100	
5.	Group B 2. Labour Economics	20	80	100	
5.	Group C 2. Demography	20	80	100	
5.	Group D 2. Agriculture Economics	20	80	100	
5.	Group E 2. Computer Application in	20	80	100	
	Economic analysis				
			TOTAL	500	
		G	Frand Total	2000	



SEMESTER I PAPER- I (COMPULSORY) MICRO ECONOMIC ANALYSIS

- **UNIT-I** Basic Economic Problems, Deductive and inductive methods of analysis, Elasticity of demand (Price, Cross, Income) elasticity of supply, Theories of demand.
- **UNIT II** Utility, Indifference curve Income and Substitution effects Slutksy theorem, Compensated demand curve and their application.
- **UNIT–III** Revealed Preference theory, Revision of demand theory of hicks, Consumer's surplus.
- **UNIT IV** Production function Short period and long period, law of variable proportion and return of scale Isoquants least cost combination of inputs, Economics of scale, elasticity of substitution.
- **UNIT V** Euler's Theorem, Technical Progress and production function Cob-Douglas, Cost and Revenue analysis.



SEMESTER I PAPER- II (COMPULSORY) QUANTITATIVE METHODS

- UNIT-I Basic Concept formulation of a linear programming problem its structure and variables, nature of feasible, basic and optional solution, concept of game strategies – simple and mixed, value of game, saddle point solution, simple applications, limitations and game theory, symmetrical and symmetrical distribution, measurement of Skewness-Karl Pearson's coefficient of Skewness, Blowley's coefficient of Skewness.
- **UNIT- II** Simple Correlation, Measurement of correlation, Karl Pearson's coefficient of correlation, Partial and multiple coefficient of Correlation, Spearman's Coefficient of correlation, Interpretation of coefficient of correlation.
- **UNIT-III** Regression analysis, regression and correlation, regression lines and regression coefficient, regression equations multiple regression analysis (up to three variables) standard error of the estimates, Inter Pollution and extrapolation, Method of fitting a parabolic curve, Newton's method of advancing difference, direct binomial expansion method and Lagrange's method.
- **UNIT-IV** Probability, meaning and definition, Permutation and combination, Types of events, Measurements of Probability– addition and multiplication theorem, conditional probability.
- UNIT- V Index Number, Meaning importance, points to remember while constructing index number, chain index number, cost of living index number, Fishers ideal index number Reversibility test- time Reversibility & factor Reversibility.



SEMESTER- I PAPER- III (COMPULSORY) INDIAN ECONOMIC POLICY

- UNIT I GDP and National Income of India Components and structure of GDP and national Income, Role of Primary, Secondary & Tertiary Sectors in GDP of India, National income and per Capita Income, Growth rates of GDP and per Capita income, saving Investment and Capital Formation Rates in India.
- UNIT II Economic Development and its Determinants Approaches to economic Development and its measurement sustainable development; Role of State Market and other institution, Indicators of development PQLI, Human Development Index (HDI) gender Development Indices.
- **UNIT-III** Planning in India- Objectives and strategy of planning, Failure and achievements of Plan, Developing grass-root organization for development Panchayat, NGO's and pressure groups.
- **UNIT-IV** Demographic Features, Poverty and equality, Broad demographic features of Indian population, Rural- Urban Migration, Urbanization and civic annuities, poverty and Inequality.
- **UNIT-V** The agriculture sector, institution Structure– Land reforms in India, Technological change in agriculture– input and output. Terms of trade between agriculture and industry, agriculture finance policy, Agriculture marketing and warehousing, issues in food security policies for sustainable agriculture.



SEMESTER I PAPER- IV (COMPULSORY) INTERNATIONAL TRADE & FINANCE

- **UNIT I** Theory of International trade– Meaning and distinguishing features of interregional and international trade, Difference and similarities between inter-regional and international trade, Smith's theory of absolute advantage, Ricardo's theory of comparative cost and Haberler' support unity cost theory.
- **UNIT II** Mill's Theory of reciprocal demand, offer curve analysis, Hecksher– Ohlin theory of international trade, factor price equalization, Stopler- Samuelson and Rybozynski theorems.
- **UNIT- III** Measurement of gains from trade and their limitations, The terms of Trade -Concept, Determination of terms of trade, Factor affecting terms of trade, Terms of trade and Economic development, Terms of Trade and welfare implications, Trade as an engine of economic growth.
- **UNIT-IV** The theory of interventions (Tariff, Quotas and non- tariff barriers) Economic effects of tariff Quotas on national income, output, consumption, Price employment, Terms of trade and income distribution, Dumping– Type, objective and effects of dumping, current incidence of dumping in India and its impact on our economy, anti-dumping measure.
- UNIT- V Meaning and components of balance of Payment (BOP), Equilibrium and disequilibrium in the BOP, measures to correct the adverse BOP, Marshall –Lerner's conditions under devaluation, expenditure switching policies and direct control.



SEMESTER II PAPER- I (COMPULSORY) MICRO ECONOMIC ANALYSIS

- **UNIT-I** Price and output determination– perfect competition short run and long run, Equilibrium of the firm and industry, monopoly price and output equilibrium under monopoly, price discrimination, monopoly control and regulation.
- **UNIT-II** Monopolistic competition– General and Chamberlin approaches to equilibrium and selling cost, oligopoly- non collusive (Curnot, Bertrad, Kinked Demand Curve) and collusive (Cartels mergers & Price leadership) Baumols sales revenue maximization model, Baines limits pricing theory.
- **UNIT- III** Distribution- Marginal Productivity theory of distribution, Modern Theory of Distribution, Rent- Recardian and modern theory, Theory of interest and IS-LM Curve model.
- **UNIT-IV** Theory of wages-wage determination under perfect and imperfect competition, Theories of profit, risk uncertainty and innovation theory, Welfare economics and general Equilibrium-Pigouvian welfare economics, Pareto optional condition.
- **UNIT V** Social welfare function, compensation principle, theory of second best Arrow's impossibility theorem, partial and general equilibrium, walrasian excess demand and inputs output approaches to general equilibrium.



SEMESTER II PAPER- II (COMPULSORY) RESEARCH METHODOLOGY AND COMPUTER APPLICATION

- UNIT-I Association of attributes, Meaning and types of association, consistency of data, methods of determination association – method of comparison of observed and expected frequency, method of comparison of proportion, coefficient of association using Yule's method. Time series analysis, Short period oscillation, Trend, Semi average method, Moving average method, Method of least squares, Graphical presentation.
- **UNIT-II** Research methodology and research methods, Research meaning, types and motivation of research, main stages of statistical research, primary and secondary data, methods of collecting primary data, secondary data; different sources, precautions while constructing questionnaire.
- **UNIT- III** Sampling and sample design, census and sample methods, methods of sampling: random sampling methods and non random sampling methods, size of sample, merits and limitations of sampling, classification, types of classifications, types of classifications, tabulation of data parts of a table, types of tables.
- **UNIT- IV** Hypothesis, meaning and types of hypothesis, procedure of test of significance, student's "T" test, Chi-square test and F ration test, Practical problems related to significance of the difference between small samples.
- **UNIT- V** Computer, What is computer, Different parts of computer, Hardware and software, Types of computer, Main characteristics of a computer, Role of Computer in economic research.



SEMESTER II PAPER- III (COMPULSORY) INDIAN ECONOMIC POLICY

- **UNIT-I** Industrial Sector, Industrial Policy, Public sector enterprises and their performance, Problem of sick units in India, Privatization and disinvestment debate growth and pattern of industrialization.
- **UNIT-II** Public Finances & Banking, Fiscal federalism: Centre state financial relation: Finances of central government, Finances of state government; Fiscal sector reforms in India, Review of monetary policy of RBI.
- **UNIT- III** External Sector & Economic Reforms- Issues is export import policy and FEMA, Exchange Rate policy foreign capital and MNCs in India, the Progress of trade reforms in India.
- **UNIT- IV** Balanced Regional Development indicators of regional, imbalance courses of Economic backwardness and regional imbalances
- UNIT- V WTO and its Impact on different sector of economy, Economic, Reforms Rational of internal and external reforms, Budget (Country and states), How to Prepare a budget of central and state Government



SEMESTER II PAPER- IV (COMPULSORY) INTERNATIONAL TRADE & FINANCE

- **UNIT-I** Theories of Exchange rate Equilibrium Exchange rate free market theory of exchange rate, Concept of foreign exchange rate, the purchasing power parity theory, balance of payments theory, spot and forward exchange rates, fixed and flexible exchange rates, their merits & demerits.
- UNI II Emerging international monetary system, Reform of international monetary system in India and developing countries, Functions, achievements and failure of WTO (TRIPS, TRIMS) UNCTAD, IMF, World Bank.
- **UNIT-III** Asian Development Bank, World Bank and India, European Economic Community, Rational and Economical progress of SAARC and ASEAN regions.
- **UNIT-IV** Theory of short term and long term capital movement and international trade-I port folio investment and international trade, 2. FDI & FII international trade, Merit's & de-merit of long term capital movement, Global financial crisis and global recovery.
- UNIT- V Trade Problems and trade policies in India after reforms, Recent change in the direction and composition of trade and their implications, impact of trade reforms since 1991, instruments of export promotion, Recent import & export policies in India, Problems of India's international debt.



SEMESTER III PAPER- I (COMPULSORY) MACRO ECONOMIC ANALYSIS

- UNIT-I Definition's And concept's of National Income (NI) and national product, two difficulties in the measurement of NI, Circular flow of income tow three, and four sector economy, Different forms of national income accounting, social accounting, input–output accounting, NI and welfare.
- UNIT II Consumption– Marginal and average propensity to consume, Keynes Psychological laws of consumption, determinants of consumption function, Income consumption relationship Absolute income hypothesis, Duisenberg's relative hypothesis, Permanent Income hypothesis and life cycle hypothesis.
- **UNIT III** Meaning and types of investment, determinants of investment, marginal efficiency of capital investment, saving and investment equality, multiplies, accelerator, super multiplier, employment, Theory– Classical theory, Keynesian theory of income and employment, Comparative Study
- **UNIT IV** Demand for Money– Fundamental equation of Keynes post Keynesian approach to demand for money– Patinkin, Boumol's, James Tabin, Friedman, Gurley & Shaw's approaches.
- **UNIT V** The Product market Equilibrium, the money market Equilibrium, General Equilibrium of product and money market, changes in general Equilibrium.



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SEMESTER III PAPER- II (COMPULSORY) PUBLIC FINANCE

- **UNIT I** Role of Government in organize society, Principles of maximum social advantage taxation– different forms, principals of taxation, Shifting, effects and incidents of taxation, Impact of tax under laws of returns and perfect competition.
- UNIT II Indian tax System, Indirect & direct tax, corporate tax, personal income tax, estate duty, central excise, custom duties, taxes on land and agriculture, value added tax, MODVAT, Service tax, taxable capacity, tax reform in India.
- **UNIT III** Public expenditure- Different forms of expenditure, structure and growth of public expenditure in India, trends in central govt. expenditure, economic effects of public expenditure on production and distribution, public expenditure and economic growth.
- **UNIT IV** Public debt– Different source of public debt, Redemption of public debt, principles of public debt management, Growth of Public debt in India
- UNIT V Budget– budget process in India, objectives of budget, kinds of budget– traditional budget, performance budget, zero based budget, out come budget, gender budget, budget theory–classical view point, balance budget, modern view point, imbalance budget.



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SEMESTER III PAPER- III (COMPULSORY) ECONOMICS OF GROWTH

- UNIT I Economic Growth: Economic growth and development, measurement of economic growth, Economic growth model vicious circle of poverty, Physical Quality of life index, Human development index, UNDP Human development report 2010, inclusive growth.
- **UNIT II** The concept of capital output ratio, input– output analysis, project evaluation and cost-benefit analysis, Methods of project evaluation.
- **UNIT III** Theories of Development: the Marxian model, The Schumpeterian model, Keynesian Model, theory of development, mahalanobis four sector model.
- **UNIT IV** Theories of development Harrod- Domar Model: Arthur Lewis Model unlimited supply of labour, Ranis & Fie Mode, Kaldor Model of distribution.
- **UNIT V** John Robinson model, Meads New- Classical model Hicks and Hayek model, Solow model of long-run growth.



SEMESTER III PAPER- IV (COMPULSORY) ENVIRONMENTAL AND WELFARE ECONOMICS

- UNIT I Welfare Economics Definition of welfare economics, Criterion of social welfare Bentham criteria, Cardinally Criterion, Pareto Optimality Criteria, Kaldor– Hicks Compensation Criterion, The Bergson Criterion, the problem of second best.
- **UNIT II** Social welfare function, Maximization of social welfare, Maximization in perfect competition, public goods and private goods, market failure & public goods.
- UNIT III Environmental Economics– Beneficiation of Environmental Economics, Relation between environmental Economics and economics, Environmental Economics and eco logical economics, environmental and resource economics, important issues in environmental Economics, Macroeconomic policy and environmental.
- **UNIT IV** Theories of Externalities– Economies and diseconomies, External Cost, Marginal social cost, Marginal private cost, Pigeons taxes and subsidies.
- **UNIT V** Environmental value– Use value, option value and non use value, International carbon tax, environment and W.T.O.



SEMESTER IV PAPER- I (COMPULSORY) MACRO ECONOMIC ANALYSIS

UNIT – I Supply for Money Quantity Theory of Money– Fisher's and cash balance (Cambridge) approach, definition of money supply, determinants of money supply, RBI approach to money supply, budget deficits and money supply, High Powered money, control of money supply.

- **UNIT II** Concept of inflation, semi and full inflation, Demand pull and cost push Inflation, theory of structural inflation, causes & effects of inflation, Stagflation, control of inflation, The Philips curve analysis.
- UNIT III Business cycles- main features of business cycles, Types of Business cycle, Theories of Business cycles, Hawtrey's monetary theory of trade cycle, Schumpeter's Keynes Hicks, Samuelson's, Friedman, Kaldor model of trade cycle, Control of business cycle.
- UNIT IV Monetary policy– Meaning of monetary policy, instrument of monetary policy, Objective of Monetary policy, limitations of monetary policy, monetary policy and economic development, new classical macro economics.
- UNIT V International Monetary System & Fiscal Policy- International Monetary system, International Liquidity problem, SDR & New International Economic Order, Meaning & objectives of Fiscal Policy, instruments of fiscal Policy.



SEMESTER IV PAPER- II (COMPULSORY) PUBLIC ECONOMICS

- **UNIT I** Fiscal federalism in India, principles of fiscal federalism, finance commission report, vertical and horizontal imbalance
- UNIT II Fiscal Policy– Objectives of Fiscal policy, theory of Fiscal Policy, Policy in under developed countries, Economic Stability and fiscal policy and full employment, Fiscal policy and economic development: A Study in Development finance.
- **UNIT III** Federal finance Principle of federal finance in India, Centre–state financial relation, resource transfer from centre to state, Godgil formula.
- **UNIT IV** Analysis of central & Chhattisgarh Govt. budget, Taxable and non taxable income of Chhattisgarh, Structure and growth of public expenditure in Chhattisgarh.
- **UNIT V** Financial responsibilities and budget management Act, Performance of the Chhattisgarh Govt. Budget, Plan & Non plan, Expenditure in Chhattisgarh.



SEMESTER IV PAPER- III (COMPULSORY) ECONOMIC DEVELOPMENT & PLANNING

- UNIT- I Economic Planning: Objective, achievements and failure of Indian Plans, Resource mobilization in Indian plan, Strategy of Indian Plan, Saving capital formation and overall growth rate, Eleventh five year plan (2007-12) Midterm appraisal of eleventh five year plan.
- **UNIT-II** Approaches to development Vicious circle of poverty, Big-Push theory, theory of critical minimum efforts, balanced and unbalanced growth.
- **UNIT-III** Investment criteria in economic development, The social marginal productivity criteria, the capital turnover criteria, The Re-investment criterion, Time series criterion Fiscal.
- **UNIT-IV** Fiscal and monetary policy, human capital formation in developing countries, Economic crises in developed and developing countries with special reference to economic development
- **UNIT-V** Problems of development; measuring poverty of world and India, Income Inequalities, unemployment, the choice of techniques, sustainable Development, role of state in economic development, problem of price-rise in India.



SEMESTER IV PAPER- IV (COMPULSORY) ECONOMICS OF SOCIAL SECTOR

- **UNIT-I** Pollution– Classification of pollution, Control of pollution, Air pollution control, water pollution control, pollution control strategies, cost benefits analysis of pollution environment and pollution.
- **UNIT-II** Environmental protection, Environmental laws, Protection, Environment and development, Sustainable development, population growth and environmental issues-global warming, climate change, green house effect.
- UNIT-III Resource Classification of Resource, Renewable Resource, Nonrenewable, optimum use of resource, land resource, forest resources, social forestry, peoples participation in the management of common and forest land energy efficiency and environment energy taxation, atomic & Solar Energy.
- **UNIT-IV** Education– Economics of education, Expenditure on education, Productive expenditure on education, productivity of education, the return education, Human capital Vs. Physical capital, Educational, reforms and Right the Education Act.
- **UNIT- V** Health Economics, Determination of health care, malnutrition, the concept of Human life, Inequalities in Health-Class and Gender, Prospective HDI GDI, GEM and HPI.



SEMESTER – I / III GROUP- A (OPTIONAL) 1. INDUSTRIAL ECONOMICS

- **UNIT I** Framework and Problems of Industrial Economics– Concept and organization of a firm ownership, Control and objectives of the firm, passive and active behavior of the firm
- UNIT II Market Structure– Seller's concentration Product differentiation; Entry conditions; Economics of scale; Market structure and profitability; Market structure and innovation; Theories of industrial location; Weber and Sergeant Florence Factors affecting location.
- UNIT III Market Performance– Growth of the firm– Size and growth of a firm; Growth and profitability of the firm; Constraints on growth; Productivity, efficiency and capacity utilization– Concept and measurement, Indian situation.
- **UNIT IV** Indian industrial Growth and Pattern– Classification of industry, Industrial policy in India– Role of Public and private sectors, Recent trends in Indian industrial growth, MNCs and transfer of technology.
- UNIT V Liberalization and Privatization– Regional Industrial growth in India, Industrial economic concentration and remedial measures, issues in Industrial proliferation and environmental preservation, Pollution control policies.



SEMESTER – I / III GROUP- B (OPTIONAL) 1. LABOUR ECONOMICS

- **UNIT I** Labour Market– Nature and characteristics of labour market, Analysis classical, new classical. Analysis of demand and supply, labour forces, demand for labour relating to choice of technology.
- **UNIT II** Supply of labour in relation to growth of labour force– Rationalization, methods of recruitment and placement, Employments revise organization in India.
- **UNIT III** Employment– Employment and development relationship poverty and unemployment concept, Types and measurement, particularly in India, Causes of unemployment issues relating to employment rationalization.
- **UNIT IV** Technological change and modernization on employment in organized. Private industry, public sector and employment in agriculture sector
- **UNIT V** Wage determination– Various classical, neo classical and bargaining theories of wage determination, various concepts of minimum wages and fair living, Problem of implementation of minimum wages.



SEMESTER – I / III GROUP- C (OPTIONAL) 1. DEMOGRAPHY

- **UNIT I** Demography– Meaning, Scope and importance of demography sources of demographic data. Tools of demography analysis, Measurement of population growth and population pyramid.
- **UNIT II** Theories of population Math's theory, Socio– culture and economic theories of population, Biological theories of population, Theory of optimum population, Theory of demographic transition.
- **UNIT III** Fertility– Meaning and definition of fertility, Measurement of fertility child woman ratio, crude birth rate, corrected birth rate, General fertility rate.
- **UNIT IV** Age specific fertility rate, Total fertility rate, Gross reproduction rate, and Net reproduction rate, calculation of fertility rates, determination of fertility Trends fertility in India.
- **UNIT V** Mortality and morbidity– Importance of mortality data causes of death, Meanings of morbidity, Differentials in mortality and morbidity.



SEMESTER – I / III GROUP- D (OPTIONAL) 1. AGRICULTURE ECONOMICS

- **UNIT I** Nature and scope of Agriculture economics, Traditional and modern agriculture, Role of agriculture in economic development, Problem in rural industrialization.
- **UNIT II** Development of agro– based industries, between agriculture and industry, Green revelation, Agricultural Production, Production function analysis, cost concept in agriculture product, form budgeting,
- UNIT III Resource use and efficiency in agricultural sector, Land use, Principles of land utilization, land use, Principles of land utilization, land distribution, Land values and rent, Land reform measures and performance, Land tenures and farming system.
- **UNIT IV** Problem of marginal and small farmers, Rural Labour Supply, Mobility of labour and labour market in agriculture sector
- **UNIT V** Nature of employment in rural sector Agriculture wages in India. Male Female wage difference in agriculture.



SEMESTER – I / III GROUP- E (OPTIONAL) 1. COMPUTER APPLICATION IN ECONOMIC ANALYSIS

- **UNIT I** Introduction to commuter and peripherals: Basic components of computer CPU input–device, Keyboard, Mouse and Scanner, Video display, Printer and Plotters.
- **UNIT II** Data storage and retrieval, hard disk, floppy disk and CD ROM: Types of computers and their applications, computers networking and resources sharing hardware, Software and firmware.
- **UNIT III** Examples and techniques in programming languages elementary Knowledge only, Data processing, Techniques and algorithms concepts of data record and file. Types of data and data structure, data analysis, file handling and operations like opening.
- **UNIT IV** Appending and cascading, closing and attribute control, data storage and retrieval, data Operations algorithms like sorting, merging, joining and bifurcation database and operation on database, DBMS and RDBMS.
- **UNIT V** Statistical Processing Techniques and Methods series, tables, Graphs and object time and frequency series,



SEMESTER – II / IV GROUP- A (OPTIONAL) 2. INDUSTRIAL ECONOMICS

- **UNIT-I** Industrial Finance Owned external and other components of funds; Role, nature, volume and types of institutional finance IDBI, IFCI, SFCs, SIDC. Commercial banks etc
- **UNIT- II** Financial Statement– balance sheet, profit and loss account, assessment of financial soundness
- **UNIT- III** Project Appraisal-Cost– Benefits analysis– Net Present Value (NPV) and internal rate of return (IRR) criteria balancing private and social returns.
- **UNIT- IV** Industrial Labour Structure of industrial labour, Employment dimensions of Indian industry; Industrial legislation; Industrial relations; Exit policy and social security; Wages and problem of bonus labour market reforms.
- **UNIT- V** Current Problems of selected Industries– Iron and Steel, Cotton textiles, jute, sugar, coal, cement and engineering goods, development of small– scale and collage industries in India.



SEMESTER – II / IV GROUP- B (OPTIONAL) 2. LABOUR ECONOMICS

- **UNIT-I** Wage determination by Qatar- urban & rural, Organized and unorganized. Wages and inflation, Productivity and wage relationship, Profit sharing scheme, Causes of wage differentials in terms of firm, occupation and region.
- **UNIT-II** Industrial Relation– Industrial Relation and trade Unions Industrialization and emergence of trade unionism, Growth structure and pattern of trade unionism Achievements and failures of trade union movement.
- **UNIT- III** Causes of industrial disputes, Step to achieve Industrial peace, Method of settlement of industrial disputes collective bargaining, Conciliation arbitration role of judicial activism, labour legislation in India, Indian labour law and practices in relation to international labour standard.
- **UNIT IV** State and labour in India– State and social security of labour, concept of social security and its evolution social assistance, Review and appraisal of state policies with respect to social security and labour welfare in India.
- UNIT V Special problem of labour, Child labour, Female labour, discrimination and genderbrias in treatment of labour, Labour market reform– exit policy need for safety nets, Measures impairing, Flexibility in labour markets, Social Insurance, Second National commission of labour, globalization and labour markets.



SEMESTER – II / IV GROUP- C (OPTIONAL) 2. DEMOGRAPHY

- **UNIT I** Measurement of mortality crude death rate, age- specific death rate, Infant mortality rate, Standardized death rate and maternal mortality rate, calculation of mortality rates.
- **UNIT II** Trends in mortality in India, life table, Migration and urbanization, Population projection, growth of population in India, Population and economic development.
- **UNIT- III** Population explosion in India, Demographic characteristics of developing countries, Population policy of India
- **UNIT-IV** Women Empowerment– Economics status, Women in decision making, Women and labour market, Evolution of population policy in India– The shift in policy from population control to family welfare, to women empowerment.
- **UNIT V** Family planning strategies and their outcomes, the new population policy, Tasks before the National Population Commission.



SEMESTER – II / IV GROUP- D (OPTIONAL) 2. AGRICULTURE ECONOMICS

- **UNIT-I** Rural finance: Rural Finance– role of rural capital and rural credit, rural capital and capital formation, characteristics and source of rural credit, Institutional and non institutional rural credit, Rural bank, Regional Rural banks and rural credit co-operative societies.
- **UNIT-II** Agriculture price Agriculture market, behavior of agriculture price, agriculture, Markets and agriculture marketable surplus, Taxation, crop insurance, state policy and agriculture price policy.
- **UNIT- III** Agricultural Growth in India: Agricultural growth in India– recent trends, interregional variation in growth of agriculture product, cropping pattern, factors affecting productivity, pricing of input, role of subsidies, role of technology and input of irrigation in agricultural sector.
- **UNIT- IV** Problem and prospects of Globalization and W.T.O. in India, Agricultural commodities, Infrastructure and economic development, the structure of Transportation costs.
- **UNIT-V** Demand for transportation, cost function in the transport Sector, Telephone utilities, role of postal services, Demand for energy, energy conservation, renewable and non-conventional sources of energy.



SEMESTER – II / IV GROUP- E (OPTIONAL) 2. COMPUTER APPLICATION IN ECONOMIC ANALYSIS

- **UNIT-I** Regression methods and technique regression analysis data validation, trends and cycle city forecasting system modeling and description;
- **UNIT-II** System equation, specification, error and correction strategies, statistical modeling and descriptive statistic, distribution functions, regression statistics.
- **UNIT-III** I.T. application commerce, Online Banking ATN's Electronic stock, Exchange electronic trading data sharing and decimation, electronic transition, documents delivery, authentication and validation transaction, processing.
- **UNIT- IV** I.T. Application to commerce electronic trading and marketing, Online shopping and malls, B2B, B2C, and G2B, models and their applications.
- **UNIT V** Document and transaction security and digital signature, integrated transition on mobile platforms.