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SYLLABUS FOR UNIVERSITY TEACHING DEPARTMENT AND AFFILIATED COLLEGES IN P.G. CLASSES

M.A. in Economics : Semester Examination 2014-15

At post graduate level, candidates are required to study 15 papers in 1st, IInd and IIIrd semester (5 papers in each semester) and 04 papers in IVth semester examination. This be treated as the nineteen papers of the course structure. So there shall be 19 papers in the post graduate examination in Economics. Viva -voce examination be treated as a compulsory paper for M.A. IVth semester examination. Each paper shall carry 100 marks out of which 80 marks will be for theory paper and 20 marks for Internal assessment. There shall be 2000 marks in M.A.. Candidates shall have secure 36 percent marks in aggregate of all papers in order to pass the M.A. Examination. Examination and result shall be treated according to rules and regulations of ordinance no. 13. **and a minimum of 50% Qualifying marks in each theory Paper.**

M.A. 1st and IInd Semester

PAPER	SEMESTER	Marks		SEMESTER II	Marks	
		Theory	Internal Assessment		Theory	Internal Assessment
PAPER I	Micro Economics-I (Theory & Principles)	80	20	Micro Economics-II (Analysis)	80	20
PAPER II	Macro Economics-I (Theory & Principles)	80	20	Macro Economics-II (Analysis)	80	20
PAPER III	Quantitative Methods	80	20	Research Methods & Computer Application	80	20
PAPER IV	Indian Economy	80	20	Indian Economic Policy	80	20
PAPER V	Industrial Economics	80	20	Labour Economics	80	20

M.A. IIIrd and IVth Semester

PAPER	SEMESTER	Marks		SEMESTER	Marks	
		Theory	Internal Assessment		Theory	Internal Assessment
PAPER I	Economics of Growth	80	20	Economics of Development & Planning	80	20
PAPER II	International Trade	80	20	International Economics	80	20
PAPER III	Public Finance	80	20	Public Economics	80	20
PAPER IV	Environmental Economics	80	20	Economics of Social Sector	80	20
PAPER V	Demography	80	20	Viva-Voce	100	--

GRAND TOTAL (A+B) 1000+1000 = 2000

SEMESTER - I MICRO ECONOMICS-I (THEORY AND PRINCIPLES) PAPER-I

- Unit-I** Introduction & Demand Analysis economics model characteristics of equilibrium and Disequilibrium system theory of demand analysis – Cardinal and ordinal approaches. Elasticity of Demand (Price Income & Cross) Empirical estimation of Elasticity, Elasticity of supply.
- Unit- II** Indifference curve – Income & substitution effect – Hicks and Slutsky theorem revealed preference theory, Hicks's Revision of Demand, Hicksian Consumers surplus, recent development in the theory of demand – (a) The pragmatic approach to demand analysis (b) linear expenditure system.
- Unit – III** Theory of Production – Production function, the short period & long period production function, The law of variable proportion, Returns to a factor and returns to scale. Technical programs and the production function, choice of optimal combination of factors of production, choice of optimal expansion path, cob Douglas production function.
- Unit- IV** Theory of cost and Revenue analysis short-run costs Long term costs – The Envelope curve, Marginal analysis as an approach to price and output determination, equilibrium of firm in perfect competition. Monopoly short run and long run equilibriums, price discrimination, welfare aspect, monopoly control and regulation.

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- Unit – V** Monopolistic Competition – Chamberlin's approaches to equilibrium of the firms under groups with product differentiation and selling cost, excess capacity, critique oligopoly – non-collusive-chamberlin's oligopoly model, The kinked demand model. The collusive oligopoly – Cartel, price leadership the basic point price system models.

SEMESTER – I MACRO ECONOMICS-I (THEORY AND PRINCIPLES) Paper – II

- Unit – I** - National income and accounts – Concept of National income and National Product, Problems of Measurement, Circular flow of income – Two, Three and four sector economy, Different forms of national income accounting – Social accounting, input-output accounting, flow of funds, balance of payment – accounting.
- Unit – II** - Consumption function-Keynesian Psychological law of Consumption, short run and long run consumption function, Empirical evidence on consumption function – Absolute income Hypothesis, Duesenberg's relative Hypothesis, Life cycle and Permanent income Hypothesis.
- Unit – III** - Investment function Rate of interest for investment Marginal efficiency of capital and investment. Saving and investment equality, Multiplier, Accelerator, Super-Multiplier. Supply of money, High Powered money, Money Multiplier Control of Money Supply.
- Unit – IV** - Demand for money – Fundamental Equation of Keynes post Keynesian approach to demand for money-Patinkin, Barmus, James Tobin, Friedman, Gurley & Shaw's Approaches.
- Unit – V** - The Product market Equilibrium, Barmal & the money market equilibrium charges in the general equalizer.
- Reference:-**
1. Markley, G. (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.
 2. Blackhouse, R. and A. Salans (Eds.) (2011), *Macroeconomics and the Real World* (2vols) Oxford University Press, London.
 3. Branson, W.A. (1989), *Macroeconomics Theory and Policy*, (3rd Edition), Harper and Row, New York.
 4. Aornbusch, R and F. Stanley (1997), *macroeconomics*, McGraw Hill, inc., New York.
 5. Hall, R.E. and J.B. Taylor (1986), *Macroeconomics*, W.W. Norton, New York.
 6. Heijdra, B.J. and V.P. Frederick (2001), *Foundations of Modern Macroeconomics*, Oxford University Press, New Delhi.
 7. Jha, R. (1991), *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd, New Delhi.
 8. Romer, DL. (1996), *Advanced macroeconomics*, McGraw Hill Company Ltd., New York.
 9. Sarte, B.L. (1997), *Cycles, Growth and Inflation*, McGraw Hill, New York.

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**SEMESTER-I
QUANTITATIVE METHODS**

Paper – III

- Unit – I - Skewness – Symmetrical and asymmetrical distribution, Measurement of skewness – Karl Pearson's coefficient of skewness, Simple correlation- Measurement of correlation – Karl Pearson's coefficient of correlation and Spearman's rank correlation, Probable error and standard error in correlation, Partial and multiple coefficient of correlation.
- Unit – II - Regression analysis – regression and correlation, regression lines and regression coefficient, regression equations. Multiple regression analysis (up to three variables). Standard error of the estimates, Interpolation and extrapolation-method of fitting a parabolic curve, Newton's advancing difference method. Direct binomial expansion method and Lagrange's method.
- Unit – III - Association of Attributes – Meaning and types of association, Consistency of data, methods of determining association – method of comparison of proportion, coefficient of association using Yule's method, Probability – meaning and definition, Permutation and combination, Types of events, measurement of Probability – addition and multiplication theorem, conditional probability.
- Unit – IV - Index Number- Fisher's Ideal Index number, Reversibility Test – Time Reversibility & Factor Reversibility, Chain Index No.
- Unit – V - Time series Analysis – short period oscillation, Trend, Semi-average method, Moving average method, Graphical presentation.
- Reference :-**
1. Shukla, S.M. and S.P. Sahay – Quantitative method's Sahitya Bhawan Publications, Agra.
 2. Agrawal, D.R., 'Quantitative methods', Vrinda Publications (P) Ltd.
 3. Sanoheti, D.C., 'Quantitative methods' Sultanchand and Sons, New Delhi.
 4. Gupta, S.P. and others, "Quantitative Techniques," Sultanchand and Sons, New Delhi.
 5. महत्ता एवं मदनानी, 'अर्थशास्त्र में प्रायोगिक गणित', लक्ष्मीनारायण अग्रवाल, आगरा-3.

**SEMESTER-I
INDIAN ECONOMY**

Paper –IV

- 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 - Demographic Features of Indian Population – Size and growth Rate of Population in India, Sex, Age-Composition and density of population, Rural urban Migration, Urbanization and Civic Amenities, Occupational structure, The Quality of Population, National Population Policy.

- Unit – III - Demographic Features of Chhattisgarh state.
- Unit – III - Agricultural Development in Indian Economy – Agricultural Growth and Productivity, Causes of low productivity and measures to increase it. Institutional structure- Land-reforms in India, Technological changes in Agriculture – the Green Revolution, Second phases of Green – Revolution, National Agricultural Policy, Food security in India.

- Unit – IV - Industrial Development in India Industrial Policies of 1956 and 1991, Public sector Enterprises and their performance, Privatization and Disinvestment, small scale sector and Mirror medium Enterprises, Problem of Sick Units, and knowledge Economy.
- Unit – V - Balanced Regional Development indicators of Regional Imbalance causes of Economic backwardness and Regional Imbalances.

- Reference :-**
1. Ahluwalia, I.J. and I.M.E. Little (Eds.) 1999) :India's Economic Reforms and Development (Essay honor of Manohar Singh), Oxford University Press, New Delhi.
 2. Bardhan, P.K. (9th Edition) (1998) : The Political Economy of Development India, Oxford University Press, New Delhi.
 3. Bawa, R.S. and Raikhy (Ed.) (1997) : Structural change in Indian Economy, Guru Nanak Dev University Press, Amritsar.
 4. Brahmamanda, P.R. and V.R. Panchimukhi (9th Eds.) (2001) : Development Experience in the Indian Economy : Interstate Perspectives, Bookwell, Delhi.
 5. Chakravarty, S. (1987) : Development Planning : The Indian Experience, Oxford University Press, New Delhi.
 6. Dantwala, M.L. (1996) : Dilemmas of Growth: the Indian Experience, Sage Publication, New Delhi.

**SEMESTER-I
INDUSTRIAL ECONOMICS**

Paper –V

- Unit – I - Concept and organization of a firm-ownership, control and objectives of the firm. Product differentiation, entry conditions, economics of scale, Market structure and profitability, market structure and innovation, theories of industrial location, Alfred Weber and Sargeant Florence Theory. Factors affecting the location.
- Unit – II - Growth of the firm. Size of a firm, growth and profitability of the firm, constraints of growth of a firm, growth, productivity, efficiency and capacity utilization. Industrial policy in India, Role of Public and Private Sectors, Recent trends in Industrial growth. Liberalization and privatization, Regional industrial growth in India. Pollution control policies.
- Unit – III - Owned, external and other components of funds, Nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC, Commercial banks etc. Financial

- statement. Balance-sheet. Profit and loss account. Assessment of financial soundness. Ratio analysis. Cost-benefit analysis.
- Unit - IV - Structure of industrial labour, Employment dimensions of Indian industry. Industrial legislation, Industrial relations, Exit policy and social security.
- Unit - V - Iron and Steel, Cotton textiles, Jute, Sugar. Development of Small-Scale and Cottage Industries in India.

Reference:-

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. Chennilam, F. (1994) : Industrial Economics : Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economic in India (3rd Edition), Himalaya Publishing house Mumbai.
5. Divine, P.J. and R.M. Jones et. Al. (1976) : An Introduction to industrial economics, George Allen and Unwin Ltd., London.
6. Government of India, Economic Survey (Annual)
7. Hay, D. and D.J. Morris (1979), Industrial Economics : Theory and Evidence, Oxford University Press, New Delhi.
8. Kuchhal, S.C. (1980) : Industrial Economy of India (th Edition), Chaitanya Publishing House, Allahabad.
9. Reserve Bank of India Report on Currency and Finance (Annual).
10. Singh, A. and A. Sadhu (1988) : Industrial Economics, Himalaya Publishing House, Bombay

SEMESTER-II
MICRO ECONOMICS-II (ANALYSIS)

Paper -I

- Unit - I - Critical evaluation of marginal analysis, Baumel's sales revenue maximization model, Williamson's model of managerial discretion, Morris model of managerial enterprises. Full cost pricing rule, Bains limit pricing theory and its recent developments, including Behavioural model of the firm.
- Unit - II - NEO-Classical Approach of Distribution and General Equilibrium Marginal productivity theory, product Exhaustion theorem, Elasticity of Technical substitution, technical progress and factor shares, Theory of distribution in imperfect product and factor markets. Determinants of rent, wages, interest and profit. (Only modern Theory)

- Unit - III - Problems in measuring welfare - classical welfare economics - Pigovian Welfare economics, Pareto optimal conditions value-judgment. Social welfare function: compensation principle Kaldor, Hicks. Inability to obtain optimum welfare-imperfections market, Little theory.
- Unit - IV - Partial and General Equilibrium, Walrasian Excess Demand and input-output approaches to general equilibrium (static and Dynamical both)
- Unit - V - Linear programming and Game Theory (Geographical and simplex methods)

Reference:-

1. Mansfield, E. (1997), Microeconomics (9th Edition), W.W. Norton and Company, New York.
2. Ray, N.C. (1975), An Introduction to Microeconomics, Macmillan Company of India Ltd., Delhi.
3. Ryan, W.J.L. (1962), Price Theory, Macmillan and Co. Limited, London.
4. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi.
5. Stonier, A.W. and D.C. Hague (1972), A Textbook of Economic Theory, ELBS and Longman Group, London.

SEMESTER- II
MACRO ECONOMICS-II (ANALYSIS)

Paper -II

- Unit - I - Theory of Inflation - classical, Keynesian and monetarist approaches to inflation, Semi and Full in inflation Structuralist - Theory of inflation, Phillips curve analysis - short run and long run Phillip's curve. The natural rate of unemployment hypothesis, Tobin's modified Phillip curve, Adoxitive stagflation control of inflation.
- Unit - II - Business Cycles main features of business cycles, Types of Business cycle, Theories of business cycles Hawtreil's monetary Theory of Trade cycle, Schumpeter's, Keynes Hicks, Samuelson's, Friedman, Kaldor model of trade cycle.
- Unit - III - 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, International monetary system, international Liquidity Problem, SDR and New International Economic Order.
- Unit - IV - Fiscal Policy - Meaning of Fiscal Policy, Instruments of fiscal policy, objectives of fiscal policy, fiscal policy and Economic growth, Effectiveness of fiscal policy monetarism Vs Fiscalism - The Debate, Similarities between Monetary policies and fiscal policies.
- Unit - V - Cost Minimization objective of Economic policy Profit maximisation maximum employment, Bop steady growth, greater equal in income
- Reference:-**
1. Markley, G. (1978), Macroeconomics Theory and Policy, Macmillan, New York.
 2. Blackhouse, R. and A. Salans (Eds.) (2011), Macroeconomics and the Real World (2 vols) Oxford University Press, London.

3. Branson, W.A. (1989), *Macroeconomics Theory and Policy*, (3rd Edition), Harper and Row, New York.
4. Aornbusch, R and F. Stanley (1997), *Macroeconomics*, McGraw Hill, inc., New York
5. Hall, R.E. and J.B. Taylor (1986), *Macroeconomics*, W.W. Norton, New York.
6. Hejdra, B.J. and V.P. Frederick (2001), *Foundations of Modern Macroeconomics*, Oxford University Press, New Delhi.
7. Jha, R. (1991), *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd. New Delhi.
8. Romer, D.L. (1996), *Advanced macroeconomics*, McGraw Hill Company Ltd., New York.
9. Scarte, B.L. (1997), *Cycles, Growth and Inflation*, McGraw Hill, New York.

**SEMESTER- II
RESEARCH METHODOLOGY AND COMPUTER APPLICATION**

Paper –III

- Unit – I - Research methodology and research methods, research : meaning, Types and motivation of research, main stages of statistical research, data primary and secondary data, methods of collecting primary data, secondary data : different sources, precautions while constructing questionnaire, editing primary and secondary data.
- Unit – II - Sampling and sample designs : census and sample methods, methods of sampling random sampling methods and Non- random sampling methods, size of sample, merits and limitations of sampling; sampling and Non- sampling errors, how to judge the reliability of samples.
- Unit – III - Classification and tabulation of data : meaning and objectives of classification, types of classification, tabulation of data, parts of a table, types of tables.
- Unit – IV - Hypothesis : meaning and types of hypothesis, procedure of test of significance, students 't' test, chi-square test and F ratio test, practical problems related to significance of the difference between two small samples and test of significance of the difference between parameter and statistic.
- Unit – IV - Computer : What is 'Computer' ? different parts of a computer : Hardware and software, types of computer, main characteristics of a computer, role of computer in economic research.

Reference:-

1. Kothari, C.R. 'Research methodology'.
2. Sharma, Dr. Rammath, 'Methods and Techniques of Social Survey and Research, A Rajhans Publication.
3. Bajpai, Dr. S.R., 'Methods of Social Survey and Research' Kitab Ghar, Kanpur-3
4. मुखर्जी, रविन्द्रनाथ, सामाजिक शोध एवं सांख्यिकी, विवेक प्रकाशन, जवाहर नगर, दिल्ली-7
5. शुक्ला एवं सहस्र, सांख्यिकीय, सांख्यिकीय भवन पब्लिकेशन्स, आगरा.

**SEMESTER- II
INDIAN ECONOMIC POLICY
Paper – IV**

- Unit – I - Planning in India – Objectives and strategies of planning, LPG (Liberalization, Privatization & Globalization Model of Development, critical Assessment of Eleventh Five year plan, Developing gross – root organization for development: Panchayats, NGO'S.
- Unit – II - Problem of Poverty and Inequality – The Concept of Poverty, Measurement & Estimation of Poverty in India, International comparison of poverty and inequality of incomes, poverty- Eradication programmes, Causes of Failure to remove poverty, Problem of Unemployment in India- Nature of unemployment, Various Schemes to reduce the unemployment, National Employment Guarantee Programme.
- Unit – III - Public Finance in Indian Economy – Fiscal Federation, Central-State Financial Relationship, Critical Analysis of the Twelfth Report of Finance Commission, Centre-State Conflict on Finances, Kelkar Task-Force on Reforms, Financial Sector Reforms in India.
- Unit – IV - External Sector Behavior of Indian Economy Structure and Direction of Foreign Trade, Balance of Payments of India Issues in Export Import Policies, External value of the Rupee and foreign Exchange Reserves, FEMA (Foreign Exchange Management Act), Trade Reforms in India.
- Unit – V - W.T.O. and its impact on the 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 Govt.
- Reference :-**
1. Anulwalia, I.J. and I.M.D. Little (Eds.) 1999: *India's Economic Reforms and Development* (Essays honor of Manohar Singh), Oxford University Press, New Delhi.
 2. Bardhan, P.K. (9th Edition) 1999: *The Political Economy of Development India*, Oxford University press, New Delhi.
 3. Bawa, R.S. and Raikhy (Ed.) 1997: *Structural change in Indian Economy*, Guru Nanak Dev University Press, Amritsar.
 4. Brahmananda, P.R. and V.R. Parchnmukhi (9th Eds.) 2001: *Development Experience in the Indian Economy : Inter-state Perspectives*, Bookwell, Delhi.
 5. Chakravarty, S. 1987 : *Development Planning: The Indian Experience*, Oxford University Press, New Delhi.
 6. Dantwala, M.L., 1996 : *Dilemma of Growth : The Indian Experience*, Sage Publication, New Delhi.

**SEMESTER - II
LABOUR ECONOMICS**

Paper – V

- Unit – I - Labour Market – Nature and characteristics of labour markets in India; Demand for labour in relation to size and pattern of investment, choice technologies and labour politics, supply of labour relation to growth of labour force. Employment and development relationship - poverty, unemployment – concept, types and instrument.
- Unit – II - Impact of rationalization, public sector and employment in agricultural sector; analysis of educated employment policy in five year plans its evaluation. Wage Determination Class neoclassical and bargaining theories of wage determination; concepts of minimum wage, living and fair wage in theory and practice.
- Unit – III - Productivity and wage relationship. Asymmetric information and efficiency of labour markets in wage determination; National wage policy, Wages and Wage Boards in India. Industrial Relations- Theories of labour movement; Growth, Pattern and Structure of labour unions in India. Achievements of labour unions; Current trends in collective bargaining.
- Unit – IV - Labour legislation in Indian labour laws and practices in relation to international labour standards. State and Labour – State and social security of labour, Concept of social security and its evolution.
- Unit – V - Labour welfare in India. Child labour. Female Labour. Second National Commission.
- Reference:-**
1. Hajela P.D. (1998), Labour Restructuring in India : A Critique of the New Economic Policies, Commonwealth Publishers, New Delhi.
 2. Jhabvala, R. and R.K. Subrahmanyam (Eds.) (2000), The Unorganized Sector : Work Security and Social Protection, Sage Publication, New Delhi.
 3. Lester, R.A. (1964), Economics of Labour. (2nd Edition), Macmillan, New York.
 4. Mc Connell, C.R. and S.L. Brue (1986), Contemporary Labour Economics, Mc Graw-Hill New York.
 5. Papola, T.S.P.P. Ghosh and A.N. Sharma (Eds.) 1993, Labour, Employment and Industrial Relations in India, B.R. Publishing Corporation New Delhi.
 6. Rosenberth M.R. (1998), Labour Markets I Low Income Countries in Cheney, H.B. and T.N. Srinivasan, (Eds.) The Handbook of Development Economics, North-Holland, New York.
 7. Venkata Ratnam, C.S. (2001), Globalization and Labour- Management Relations Dynamics of change, Sage publications/ Response Books, New Delhi.

**SEMESTER - III
ECONOMICS OF GROWTH**

Paper – I

- 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 Schumpeterial model, Keynesian Theory of Development Harrod-Domar Model : Arthur Lewis model unlimited supply of labour, Ranis & Fei model, Kaldor model of Distribution,
- Unit – V - John Robinson model, Meads New- classical model, Hicks and Hayek Model, Solow model of Long- run growth.
- Reference:-**
1. Todaro, M.P. (1996) (6th edition) Economic Development, Longman London.
 2. Soow, R.M. (2000), Growth Theory An Exposition, Oxford University Press, Oxford.
 3. United Nations, Human Development Department Report 2005.
 4. Behrman, S. and T.N. Srinivasan (1995), Hand book of Development Economics, Vol 1, 2. & 3, Elsevier, Amsterdam.
 5. Ghatak,s (1986), An introduction to development Economics, Allen & Elhein, London.
 6. Sen, A.K. (Ed.) 1990 Growth Economics, Penguin, Harmonds worth.
 7. Dasgupta, P.A.K. Sen and S. Marglin (1972), Guidelines for project Evaluation, UNIDO, Vienna.
 8. Mahrotra, S. And J. Richard (1998), Development with a Human Face, Oxford University Press New Delhi.

**SEMESTER - III
INTERNATIONAL TRADE**

Paper – II

- Unit – I - Theory of International Trade – Meaning and distinguishing features of Inter-regional and International-trade. International Trade as a specific state of inter-regional trade.
- Refinements of the comparative cost theory. Haberler's Opportunity Cost Theory, Mill's Theory of Reciprocal Demand.
- Unit – II - Heckschar-Ohlin Theory of International Trade, Factor Price Equalisation, Theorem of International Trade, Stolper Samuelson and Rybezyński Theorems.
- The Terms of Trade – Concepts, Determination of terms of trade, Factors affecting terms of trade, Terms of Trade & Economic Development, Its empirical relevance

and policy implications for less developed countries Terms of Trade & Welfare implications.

- Unit - III - The Theory of Intervention - (Tariffs, Quotas, and non tariff barriers), Economic effects of tariffs and quotas on national income, output, consumption, price, employment, Terms of Trade & Income Distribution, The Stolper - Samuelson Theorem of Tariff on Income distribution, The Learner's Paradox.
- Unit - IV - Balance of Payments - Meaning and components of BOP. Equilibrium and disequilibrium in the BOP, Measures to correct the adverse BOP, Marshall-Lerner's conditions-under devaluation, expenditure-reducing and expenditure switching policies & direct control.

- Unit - V - Foreign Trade Multiplier, Foreign Repercussion or Back-Wash Effect. Foreign Exchange Rate-Spot and Forward Exchanges Rates, Fixed and Flexible Exchange Rates, their merits and demerits, Hybrid Exchange Rate, Floating Rate of Exchange, Managed Floating system.

Reference:-

1. Bhagwati, J. (Ed). (1981) : International Trade, Selected readings, Cambridge, University Press, Massachusetts.
2. Carbough, R.J. (1999), International Economics, International Thompson Publishing, New York.
3. Chacholiades, M. (1990), International Trade : Theory and Policy, McGraw Hill, Kogakusha, Japan.
4. Dana, D.S. (2000), International Economics : Study Guide and Work Book, (5th Edition), Routledge Publishers, London.
5. Dunn, RmM, and J.H. Mutth (2000), International Economics, Routledge, London.
6. Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.
7. Kindleberger, C.P. (1973), International Economics and International Economic Policy A Ready, McGraw Hill International, Singapore.
8. Krugman, P.R. and M. Obstfeld (1994), International Economics : Theory and Policy, Glenview, Foresman.

**SEMESTER- III
PUBLIC FINANCE
Paper - III**

- Unit - I - Role of Government in Organized Society, Principles of maximum social advantages, Taxation - different forms, Principles of taxation, Shifting, effects and incidence 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, Mod-vat, 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 government expenditure, Economic effect of public expenditure on production and distribution, Public Expenditure and economic growth.

Unit - IV - Public Debt - Different sources of public Debt, Redemption of public Debt, principle of public Debt Management and payment of Public Debt, Growth of Public Debt in India.

Unit - V - Budget - budget Process in India, Objections of budget, kinds of budget - Traditional budget, performance budget, Zero based budget, out-come budget, Gender budget, Budget theory - classical viewpoint, Balance budget, Modern view point, Imbalance budget.

Reference:-

1. Atkinson, A.B. and J.E. Sigitiz (1980), Lectures on Public Economics, Tata McGraw Hill, New York.
2. Auerbach, A.J. and M. Feldstern (Eds.), Handbook of Public Economics, Vol. 1, North Holland, Amsterdam.
3. Report of Twelfth Finance Commission of India.
4. Government of India (1992), Reports of the Tax Reforms Committee - Interim and Final (Chairman : Raja J. Chelliah).
5. Chelliah, Raja J. et. Al (1981), Trends and issues in India's Federal Finance, NIPFP, New Delhi.
6. Peacock, A and G.K. Shaw (1976), The Economic Theory of Fiscal Policy, George Allen and Unwin, London.
7. Sahni, B.S. (Ed.) (1972), Public Expenditure Analysis: Selected Readings, Rotherdam University Press.
8. Jha, R. (1998), Modern Public Economics, Routledge, London.
9. Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
10. Cornes, R. and T. Sandler (1986), The Theory of Externalities, Public Goods and Club Goods, Cambridge University Press, Cambridge.

**SEMESTER- III
ENVIRONMENTAL ECONOMICS
Paper - IV**

- Unit - 1 - Welfare Economics - Definition of welfare Economics, Criterion of Social Welfare- Bentham Criteria, Cardinal 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 - beneficitation of Environmental Economics, Relation between Environmental Economics and Economics, Environmental Economics and

- Ecological Economics, Environmental and resources Economics, important-issues in Environmental Economics, Macro economic policy and Environmental.
- Unit - IV - Theories of Externalities - Economic and Diseconomies, External Cost, Marginal social cost, Marginal Private cost, Pigou Tax and Subsidies.
- Unit - V - Environmental value- use value, option value and non use value, international carbon Tax. Environment and W.T.O.

Reference :-

1. Madhu Raj - Environmental Economics.
2. Steve Baker - Environmental Economics.
3. D.W. Pearce - Environmental Economics.
4. Baumol, W.J. and W.E. Oates. (1988) : The Theory of Environmental Policy, (2nd Edition), Cambridge University Press, Cambridge.
5. Berman, P. (Ed) (1995) : Health Sector Reform in Developing Countries : Making health development sustainable, Boston : Harvard Series on Population and international Health.
6. Blaug, M. (1972) : Introduction to Economics of Education J Penguin, London.

**SEMESTER- III
DEMOGRAPHY
Paper - V**

- Unit - I - Demography - Meaning and importance, Theories of Population - Theory of optimum population and Theory of demographic transition, Measures of population change and distribution - rate of population change and distribution-rate of population change, measures of degree of concentration of population - Lorenz curve and Gini concentration ratio.

- Unit - II - Migration - Kinds, factor affecting migration, Hurdles of in migration, Measurement of internal migration, migration rates and ratios, Urbanization-Factors influencing urbanization and effects of urbanization, population and economic development, Human resource development in India.

- Unit - III - Mortality-Meaning and sources of mortality data, causes of high death rate in India, Trends in death rate in India, Measurement of mortality based on death statistics, Crude death, Specific death rate, infant mortality rate and standardized death rate, child mortality rate, Maternal mortality rate, Life table - Functions and construction of life table, Problems related to death rates and life table.

- Unit - IV - Fertility - Meaning, Causes of high birth rate in India, Trends in birth rate in India, Measurement of fertility and reproduction - Crude birth rate, General fertility rate, Age-Specific Fertility rate, Total fertility rate.

- Unit - V - Gross reproduction rate and Net reproduction rate, Problems related to fertility and reproduction rates.

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**SEMESTER- IV
ECONOMICS OF DEVELOPMENT AND PLANNING
Paper - I**

- Unit - I - Economic Planning: objective, Achievements and Failures 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) - Mid Term 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, Problems of Price-rise in India.

Reference:-

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8. Mehta, S. and J. Richard (1998), Development with a Human Face, Oxford University Press New Delhi.

**SEMESTER-IV
INTERNATIONAL ECONOMICS**

Paper – II

- Unit – I - The Theory of Regional Blocks-Forms of Economic Co-operation, reforms for the emergence of trading blocs at the Global level. Static and dynamic effects of a Customs Union and free Trade area. Rational of economic progress of SAARC, SAPTA, ASEAN Regions, Problems and Prospects of forming a customs Union in the Asian Region.
- Unit – II - Regionalism of European Union, NAFTA, Multilateralism and WTO, Functions of WTO, TRIPS, TRIMS, AGRICULTURE, MARKET-ACCES textile Clothing Patent Rights. Ministerial Conferences of WTO, UNCTAD.
- Unit – III - Theory of short term & long term capital movement and international trade – (1) Port Folio Investment and International trade (2) FDI and International Trade. Merits & Demerits of long term Capital movement in international trade, factors affecting international Capital movement, Global Financial crises & Global Recovery.
- Unit – IV - WTO and World Bank From point of view of India. Trade policies of India after Reforms. Recent change in the Direction and composition of the trade and their implications.
- Unit – V - Rationale and impact of Reforms since 1991 on BOP, Problems of India's International debt Export policies of India, working and regulations of MNCS in India.
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**SEMESTER-IV
PUBLIC ECONOMICS**

Paper – III

- Unit – I - Fiscal federalism In India, principles of fiscal federalism, Finance Commission Report, vertical and horizontal imbalances.

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- Unit – II - Fiscal Policy – Objectives of Fiscal Policy, theory of fiscal policy. Policy in under – development countries, Economic stability and fiscal policy, fiscal policy and full employment, fiscal policy and Economic development.
- Unit – III. - Federal Finance – Principles of federal finance in India, Centre – state financial relation, Resource transfer from Centre to States, Godgil Formula.
- Unit – IV - Analysis of Central & Chattisgarh 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.

Reference :-

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**SEMESTER-IV
ECONOMICS OF SOCIAL SECTOR**

Paper – IV

- Unit – I - Pollution – Classification of pollution, Control of pollution, Air pollution Control, Water Pollution Control, Pollution control strategies, cost-benefit analysis of pollution Environment and pollution.
- Unit – II - Environmental Protection Environmental laws, Protection of Environment, 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, Non-renewable, optimum use of resources, land resources, 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 of education, Human-Capital, Human Capital Vs. Physical capital. Educational, Reforms and Right of education Act.

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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.

Reference:-

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