

**SYLLABUS FOR UNIVERSITY TEACHING DEPARTMENT AND AFFILIATED**

**COLLEGES IN P.G. CLASSES**

**M.A. in Economics: Semester Examination 2023-25**

At post graduate level, candidates are required to study 15 papers in First, Second and Third semester (5 papers in each semester) and 04 papers in fourth semester examination. This is to 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. fourth 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.

**M.A. SEMESTER-I and SEMESTER-II**

PAPER	SEMESTER-I	Marks		SEMESTER-II	Marks	
		Theory	Internal Assessment		Theory	Internal Assessment
PAPER-I	Micro Economics-I	80	20	Micro Economics-II	80	20
PAPER-II	Macro Economics-I	80	20	Macro Economics-II	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. SEMESTER-III and SEMESTER-IV**

PAPER	SEMESTER-III	Marks		SEMESTER-IV	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	--

*D.S.G.*

*Imp 2024-25*

*24/07/23*

**SEMESTER – I**  
**Micro Economics -1**  
**Paper - I**

**Unit - I** Introduction: - Concept of Equilibrium: static and dynamic equilibrium, partial and general equilibrium,, Economic Models, Neo Classical Demand, Analysis. Elasticity of Demand (Price, Income & Cross), Elasticity of supply.

**Unit - II** Indifference curve, Marginal Rate of Substitution, Income & substitution effect, Hicks and Slutsky theorem, Revealed preference theory, Hicks's Revision of Demand, Hicksian Consumer surplus.

**Unit – III** Theory of Production – Production function, the short period & long period production function, the law of variable proportion (Iso-quant approach) Marginal rate of Technical Substitutions, Returns to a factor and returns to scale. Expansion path, Cobb Douglas Production function, CES production function.

**Unit - IV** Theory of cost and Revenue analysis, Perfect Competition- equilibrium of firm in Perfect Competition. Monopoly- short run and long run equilibriums, price discrimination under monopoly competition, monopoly control and regulation. Comparison between monopoly and perfect competition.

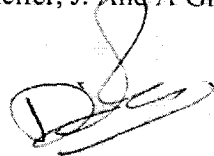
**Unit – V** Monopolistic Competition– price and output determination under monopolistic competition, Group equilibrium, theory of excess capacity. Oligopoly, non- collusive oligopoly model: The kinked demand curve. The collusive oligopoly – Cartels: joint profit maximization or perfect cartels, price leadership: the low cost price leadership model.

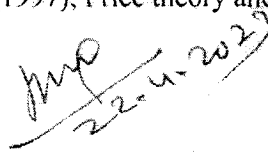
**Text Books**

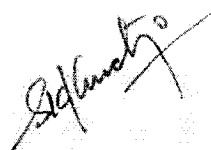
1. Jhingan M. L. (2014), Advanced Economic Theory, Vrinda Publication, New Delhi
2. Jhingan M. L. (2014), Micro Economics , Vrinda Publication, New Delhi
3. Agarwal , A (2014), Micro Economic analysis , Sahitya Bhawan Publication, New Delhi

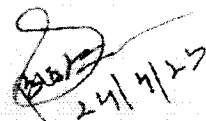
**Reference Books**

1. Kraps, David M. (1990) a course in micro economics theory, Princeton university press, Princeton.
2. Kout sayiannis; A (1979) modern Microeconomics (2nd Edition), macmillan press,London.
3. Layard, PRG and P.W. Watters (1978), Micro economic theory, McGraw Hill, New York.
4. San A (1999) Micro economics theory and Applications, Oxford University Press, New Delhi;
5. Stigler, G. (1996) theory of Price (4th edition), Princeton Hall of India, New Delhi.
6. Varian, H (2000) Micro economics Analysis, W.W. Norton, New York.
7. Baumol W.J., (1982) Economic theory and operations Analysis, Princeton Hall of India, New Delhi.
8. Handersan, J.M. and R.E. Qandy (1980) Micro economics theory - A Mathematical approach, Mc Graw Hill New Delhi.
9. Hirshleifer, J. And A Glazer (1997), Price theory and Application, Prentise Hall of India, New Delhi.









**SEMESTER – I**  
**MACRO ECONOMIC**  
**Paper – II**

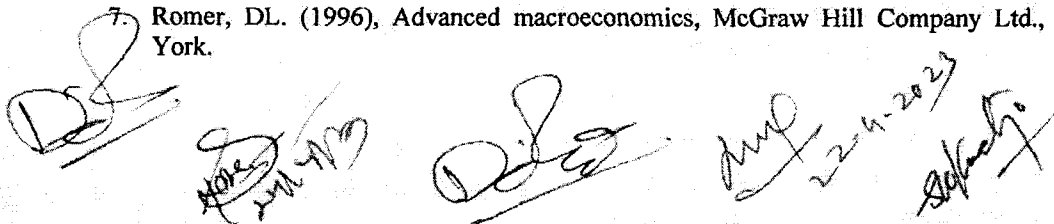
- Unit – I National Income and Accounts – Concept of National Income and National Product, Problems of Measurement, , Different forms of National Income Accounting – Social Accounting, Input Out-put Accounting, Flow of Funds, Balance of Payment – Accounting, Circular flow of Income – Two, Three and Four Sector Economy
- Unit – II Classical Theory of Employment, Say’s Law of Market , Principle of Effective Demand, Keynesian & Pigou Theory of Employment, Comparison of Classical and Keynesian Models. National Income Determination of Keynesian Model - Two, Three and Four Sector Economy.
- Unit- III Consumption Function- Keynesian Psychological Law of Consumption, Short Run and Long Run Consumption Function. Theory of Consumption Function – Absolute Income Hypothesis, Duesanbery’s Relative Hypothesis, Life Cycle and Permanent Income Hypothesis.
- Unit –IV Investment Function,, Marginal Efficiency of Capital and Investment. Saving and Investment Equality, Multiplier and its working, Accelerator and its working, Super-Multiplier. Supply of Money, Determinants of Money Supply, Measurement of Money supply, Control of Money Supply. High Powered Money, Money Multiplier. The Liquidity theory of money.
- Unit – V Demand for Money –Fisher and Cash Balance (Cambridge) Approach, Fundamental Equation of Keynes. Friedman’s re-formulation of the quantity theory of money. Post Keynesian Approach to Demand for Money- Patinkin, Bamuls, James Tobin, Friedman and Gurley & Shaw’s Approaches.

**Text books**

- 1 Sethi, T.T. (2008) Macro Economics , Laxminarayan Agrawal , Agra.
- 2 Jhingan, M.L. (2010) Monetary Economics, vrinda publications pvt. ltd.
- 3 Jhingan, M.L. (2000) Macro Economic theory, vrinda publications pvt ltd.
- 4 Shinghai G.C & Mishra J.P. (2013) Macroeconomic Analysis, Sahitya bhawan publication Agra.

**Reference**

1. Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 vols)  
Exford University Press, London.
2. Branson, W.A. (1989), Macroeconomics Theory and Policy, (3<sup>rd</sup> Edition), Harper and Row, New York.
3. Aornbusch, R and F. Stanley (1997), Macroeconomics, McGraw Hill, inc., New York
4. Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W.W>Norton, New York.
5. Heijdra, B.J. and V.P. Frederick (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
6. Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd. New Delhi.
7. Romer, DL. (1996), Advanced macroeconomics, McGraw Hill Company Ltd., New York.

The bottom of the page contains several handwritten signatures and dates. On the left, there is a signature that appears to be 'D.S.' with a date '22/11/23' written below it. In the center, there is another signature, possibly 'D.S.', with a date '22/11/23' written below it. On the right, there is a signature that appears to be 'Sahitya' with a date '22/11/23' written above it.

**SEMESTER-I**  
**QUANTITATIVE METHODS**  
**Paper – III**

- Unit – I Skewness – Symmetrical and asymmetrical distribution, Measurement of skewness – Karl Pearson's coefficient of Skewness, Bowley coefficient of skewness. Simple correlation- Measurement of correlation – Karl Pearson's coefficient of correlation and Spearman's rank correlation, Coefficient of correlation by the method of least square, Probable error and standard error in correlation, coefficient of determination of correlation.
- Unit – II Regression analysis – regression and correlation, regression lines and regression coefficient, regression equations. Simple regression analysis, Multiple regression analysis (up to three variables only). Standard error of the estimates of simple regression analysis. 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 tests. Time series Analysis – Components of time series, Measurement of long term trend- semi-average method, Moving average method and method of least squares.
- Unit - V Functions: Meaning and types of functions, Differentiation: Meaning and rules of differentiation, Integration: Meaning and rules of integration, Problems related to differentiation and integration, Auto correlation.

**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. Sancheti, D.C., 'Quantitative methods' Sultanchand and Sons, New Delhi.
4. Gupta, S.P. and others, "Quantitative Techniques." Sultanchand and Sons, New Delhi.
5. esgrk ,oa enukuh] ^vFkZ'kkL= esa izkjafHkd xf.kr\*] y{ehukjk;.k vxzoky] vkxjk&3-

*Handwritten signature and date: 22-4-2023*

*Handwritten signature*

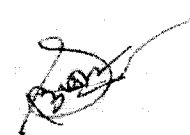
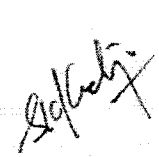
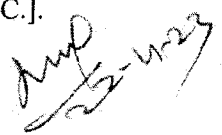
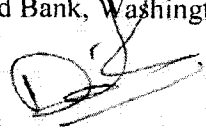
*Handwritten signature*

**SEMESTER-I**  
**INDIAN ECONOMY**  
**Paper –IV**

- Unit - I** Indian Economy: Meaning, basic characteristics and major issues of development of Indian Economy, GDP and National Income of India – Components and Structure of GDP, Role of Primary, Secondary and Tertiary Sectors in GDP, National Income and Per Capita Income, Growth Rates of GDP and Per Capita Income
- Unit - II** Demographic Features of India – Size, Growth Rate, Sex Ratio, Age-Composition, Literacy and Density of Population, Migration, Rural-Urban Migration, Urbanization and Civic Amenities, Occupational Structure, National Population Policy, Demographic Features of Chhattisgarh State
- Unit – III** Agriculture economics :- Agricultural Growth and Productivity, Causes of Low Productivity and Measures to Increase it, Agricultural Marketing and Warehousing, Institutional Structure- Land Reforms in India, The Green Revolution, National Agricultural Policy and Food Security in India, Rural credit in India, NABARD and its role in rural credit
- Unit – IV** Health Economics: - Basic concepts: Definition and Dimensions of Health [WHO definition]-Meaning and Importance of Health Economics- Determinants of Health- Input and Output Indicators of Health. Health as investment - Economics of Public Health- Education and Health – Concept of Health Education Capital Formation in Health Care. Health in developing countries - Significance of Health in LDCs- Measuring the Burden of Disease - The Concepts DALY and QALYS- Challenges for the Future.
- Unit – V** Infrastructure and Social sector- Infrastructure and Economic Development, Energy, Power, Transportation- Road, Railway, Water and Civil Aviation in India. Concept of Social Sector Education: Investment in Human Capital Rate of return to education: private and social; quality of education; signaling or human capital; theories of discrimination; gender and caste discrimination in India. Education Sector in India: An Overview Literacy rates, school participation, school quality measures.

**Reference:-**

1. Ahulwalia, I. J. and I. M. E. Litle (Eds.) 1999): India's Economic Reforms and Development
2. (Essay honor of Manohar Singh), Oxford University Press, New Delhi
3. Bardhan, P. K. (9<sup>th</sup> Edition) (1998): The Political Economy of Development India, Oxford University Press, New Delhi.
4. Bawa, R.S. and Raikhy (Ed.) (1997): Structural Change in Indian Economy, Guru Nanak Dev University Press. Amritsar (PB).
5. Brahmananda, P. R. and V. R. Panchmukhi (9<sup>th</sup> Eds.) (2001): Development Experience in the
6. Indian Economy: Interstate Perspectives, Bookwell, Delhi.
7. Chakravarty, S. (1987): Development Planning: The Indian Experience, Oxford University Press, New Delhi.
8. Dantwala, M. L. (1996): Dilemmas of Growth: the Indian Experience, Sage Publication, New Delhi.
9. Asha A. Bhende and Tara Kanitkar (2001), Principles of Population Studies [Himalaya Publishing House, New Delhi].
10. Park, K. (2000), Park's Text Book of Preventive and Social Medicine. 16th edition. [M/s Banarsidas Bhanot Publishers, Jalalpur].
11. William Jack (1999), Principles of Health Economics for Developing Countries, WBI Development studies [The World Bank, Washington. D.C.].



**SEMESTER-I**  
**INDUSTRIAL ECONOMICS**  
**Paper -V**

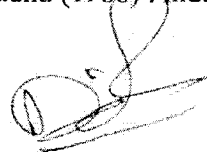
- Unit - I** Concept and Organization of a Firm-Ownership, Control and Objectives of the Firm. Rationale of Industrialization: - Agriculture and Industrialization – patterns, process, speed, Implications of Industrialization. Theories of Industrial location, Alfred Weber and Sergeant Florence Theory. Factors Affecting Industrial Localization.
- Unit - II** Industrial Productivity, Efficiency and Capacity. Recent Trends in Industrial Growth. Strategies for Industrial Growth, Regional Development of Industries.
- Unit – III** Industrial Development in India, Industrial Policies of 1948, 1956 and 1991, Role of Public and Private Sector industries in India. Privatization and Disinvestment.
- Unit – IV** Structure of Industrial Labor, Employment Dimensions of Indian Industry. Industrial Legislation, Industrial Relations, Exit policy and Social Security.
- Unit – V** Large Scale Industries: - Iron and Steel, Cement, Jute, Sugar, paper industries, Development of Small Scale and Cottage Industries in India.

**Text books**

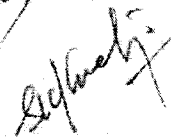
1. Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal, R.R. (1985) : Industrial Economics, Wiley Eastern Ltd., New Delhi.
3. Chernilam, F (1994) : Industrial Economics : Indian Perspective (3<sup>rd</sup> Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economic in India (3<sup>rd</sup> Edition), Himalaya Publishing house Mumbai.
5. Kuchhal .S.C , the industrial economy of India , Chaitanya publishing house.

**Reference**

1. Divine, P.J. and R.M. Jones et. At. (1976) : An Introduction to industrial economics, George Allen and Unwin Ltd., London.
3. Hay, D. and D.J. Morris (1979), Industrial Economics: Theory and Evidence, Oxford University Press, New Delhi.
4. Kuchhal, S.C. (1980) :Industrial Economy of India, Chaitanya Publishing House, Allahabad.
5. Reserve Bank of India Report on Currency and Finance (Annual).
6. Singh, A. and A. Sadhu (1988) :Industrial Economics, Himalaya Publishing House



22-11-2023



**SEMESTER- II**  
**MICRO ECONOMICS-II**  
**Paper -I**

- Unit - I** Sales maximization model: Baumol's model (price-output determination of a product without advertisement and optimal advertising outlay), Managerial theories of the firm: Williamson's model of managerial discretion, Marris theory of the firm. Theory of limit pricing: Bains model.
- Unit - II** Theory of distribution: marginal productivity theory of distribution: J.B.Clark's and Marshall- Hick's Version, Product Exhaustion theorem. NEO-Classical Approach of Distribution: relative share of labor and capital, technological progress and factor shares in income, Determinants of rent, wages, interest and profit: classical and modern Theory.
- Unit - III** Linear programming & Game Theory - Linear programming Introduction, & meaning, Conditions and Generalization, Application to the theory of firm, Limitations of Linear Programming, Graphical & Mathematical Solution. Game Theory and Price Determination- Introduction, Two Person Zero Sum game, Non Constant sum game-Prisoner's Dilemma, Limitations of the Game Theory, importance of the Game Theory.
- Unit - IV** Behavioral economics: What is behavioral economics? - History and evolution- relation with other disciplines objectives, and scope- themes and methodology of behavioral economics (theory, evidence, consilience) – application
- Unit - V** Welfare economics: Walrasian- introduction, value judgment, classical welfare economics, Pigovian Welfare economics, Pareto optimal conditions. New welfare economics: compensation principle of Kaldor - Hicks. Social welfare function: Bergson – Samuelsons social welfare function, Arrow's impossibility theorem.

**Text Books**

- 1 . Jhingan M. L. (2014), Advanced Economic Theory, Vrinda Publication, New Delhi
- 2 . Jhingan M. L. (2014), Micro Economics, Vrinda Publication, New Delhi
3. Agarwal , A (2014), Micro Economic analysis, Sahitya Bhawan Publication, New Delhi

**Reference Books**

1. Mansfield, E. (1997), Microeconomics (9<sup>th</sup> 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.
6. An introduction to behavioural economics by Wilkinson and Klaes, Palgrave McMillan
7. Behavioural Economics and Finance, by Michelle Beddeley, Rutledge, 2019



22/11/2023  
S. K. Singh

23/07/23

**SEMESTER- II**  
**MACRO ECONOMICS**  
**Paper –II**

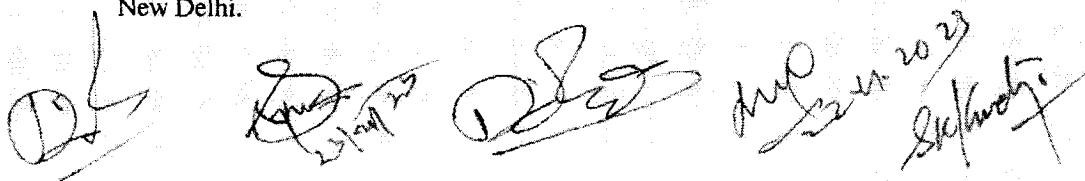
- Unit – I Theory of Inflation – Classical, Keynesian and Monetarist Approaches to Inflation, Semi And Full inflation, Theory of Structural Inflation, Stagflation, Control of Inflation Philips Curve Analysis – Short Run and Long Run Philip's Curve. The Natural Rate of Unemployment Hypothesis, Tobin's Modified Philip Curve.
- Unit – II Business Cycles, Main Features of Business Cycles, Types of Business Cycle, measures to control 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.
- 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. 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. The New Classical Macro economics,, Supply side Economics.
- Unit – IV IS-LM Model, The Product Market Equilibrium, The Money Market Equilibrium, Equilibrium of Product and Money Market, Merits and Demerits of IS-LM Curve, Extension of IS-LM Models With Flexible Prices and Labour Market., Effect of fiscal policy in the Neo-Classical Model, Effect of Monetary Policy in Keynesian System, Effect of Monetary Policy in Keynesian System.
- Unit – V Banking, meaning and function of commercial bank, Credit creation of Commercial bank, Organisation and Structure of Commercial banking, Policies and Principles of Commercial bank, Central banking, Function and Credit Control.

**Text books**

1. Sethi, T.T. (2009-10) Macro economics, Laxminarayan Agrawal, Agra.
2. Jhingan, M.L. (2008) Monetary Economics, vrinda publications pvt.ltd.
3. Jhingan, M.L. (2010) Macroeconomic theory, vrinda publications pvt ltd.
4. Shinghai G.C. & Mishra J.P. (2013) Macro Economic Analysis, Sahitya Bhawan Publication Agra.

**Reference**

10. Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 vols) Exford University Press, London.
11. Branson, W.A. (1989), Macroeconomics Theory and Policy, (3<sup>rd</sup> Edition), Harper and Row, New York.
12. Aornbusch, R and F. Stanley (1997), Macroeconomics, McGraw Hill, inc., New York
13. Hall, R.E. and J.B. Taylor (1986), Macroeconomics, W.W>Norton, New York.
14. Heijdra, B.J. and V.P. Frederick (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
15. Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd. New Delhi.

Handwritten signatures and dates at the bottom of the page. The signatures are in black ink and appear to be of various individuals. One signature is dated '23/11/20' and another is dated '22/11/2023'. There are also some illegible handwritten notes and initials.



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

- Unit - I Research methodology and research methods, research : meaning, types of research, 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/schedule, editing of primary data.
- Unit - II Sampling- Meaning and need for sampling, size of sampling, merits and limitations of sampling, sampling and non-sampling errors, sampling frame, how to judge the reliability of samples. Various methods of sampling. Sampling design- meaning and steps in sample design,
- 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. Processing and analysis of data- processing operations, some problems in processing, Elements/types of analysis.
- Unit - IV Hypothesis: Meaning of hypothesis, basic concepts concerning testing of hypothesis, procedure for hypothesis testing, test of significance based on students 't' test, chi-square test F ratio test and paired T test, practical problems related to students 't' test, Chi-square test, F ratio test and paired T test.
- Unit - IV **Report Writing:** Meaning and significance of a Research Report, Types of Research Report: Technical, Popular, Interim, Summary, Article, Format of a Research Report: Title to Bibliography, Principles of writing the Research Report : Organization and Style, Writing the report on the survey conducted by the student, Bibliography, Appendices, Plagiarism.

**Reference Books**

1. Kothari, C.R. 'Research methodology'.2. Sharma, Dr. Ramnath, 'Methods and Techniques of Social Survey and Research, A Rajhans Publication.
2. Bajpai, Dr. S.R., 'Methods of Social Survey and Research' Kitab Ghar, Kanpur-3
3. Krishnaswami, O. R. and M. Ranganathan, Research methodology of Social Sciences, Himalaya Publishing House, New Delhi 2022.
4. मुखर्जी, रविन्द्रनाथ, सामाजिक शोध एवं सांख्यिकी, विवेक प्रकाशन, जवाहर नगर, दिल्ली-7
5. शुक्ला एवं सहाय, सांख्यिकीय, साहित्य भवन पब्लिकेशन्स, आगरा.
6. शर्मा, वीरेन्द्र प्रकाश, रिसर्च मैथडॉलॉजी, पंचशील प्रकाशन, जयपुर.

*Signature*

*Signature*

*Signature*

*22-4-2023*

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

- Unit - I** Planning in India– Objectives and Strategies of Planning, Twelfth Five Year Plan, Development Strategy, NITI aayog, LPG Model of Development, PURA- a Neo Gandhian Approach to Development, Developing Grass-root Organization: Panchayats, NGO'S.
- Unit - II** Problem of Poverty and Inequality – The Concept of Poverty, Measurement and 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, Balanced Regional Development- Indicators, Causes, Changing Scenario and Policy Measures to remove Regional Disparity.
- Unit – III** Monetary economics – Reserve bank of India, Functions of RBI – quantitative and qualitative methods of credit control – bank rate policy, open market operations, cash reserve ratio, selective methods, role and limitations of monetary policy with special reference to India. Commercial Banking system, Progress of Banking since 1969, Financial Sector Reforms in India, Composition of Indian Capital Market, SEBI and Capital market reform.
- Unit - IV** Foreign Trade of India- Importance of Foreign Trade for a developing Economy, Foreign Trade since 1991, 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, SEZs, Trade Reforms in India.
- Unit – V** WTO and its Impact on the Different Sector of Economy, Economic Reforms – Rational of Internal and External Reforms, Cooperative movement in India- Organization, Structure and Development of different types of Cooperatives in India.

**Reference:-**

1. Ahulwalia, 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. (9<sup>th</sup> 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 (PB).
4. Brahmananda, P. R. and V. R. Panchmukhi (9<sup>th</sup> 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.

*Stephania*

*Devi*

*22-4-2022*

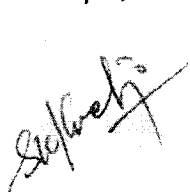
*29/2/23*

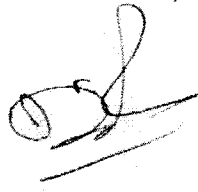
**SEMESTER- II**  
**LABOUR ECONOMICS**  
**Paper – V**

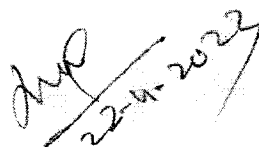
- Unit - I** Labour Economics - Definition, Nature, Scope & Importance, Labour Market – Nature and Characteristics of Labour Markets in India .Supply of Labour - Labour force, Factors affecting Law of Labour Supply. Demand for Labour – Labour productivity, Demand for Labour by Industrialist.
- Unit - II** Theories of labour market: - Classical Theory of labour, Marginal productivity theory of Labour Concept of wages – Real Wages , Nominal Wages, Factors Affecting Real wages , Theories of Wage Determination - Classical Theory, New Theory, The theory of Collective Bargaining.
- Unit – III** Theories of Labour Movement - Labour Unions in India, Rise and Growth of Labour Union, Achievements of Labour Unions. Structure and Pattern of Trade Union - Objectives, Growth, Achievements and Failures.
- 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, Labour Policy in India.
- Unit – V** Labour Welfare in India, Rural and Agricultural Labour in India, Child Labour, Female Labour, Concept of Industrial Peace, Settlement of Industrial Dispute, Second National Labour Commission.

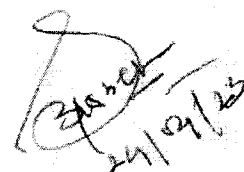
**Text books**

1. Goyal, Sunil & Goyal, M. L. (2008):Labour Economics, R.B.S.A. Publications, Jaipur.
2. Saxsena, R.C. (2010): Labour Problems & Social Welfare, K. Nath and Company Publication, Meret.
3. Singh, Dilip Kumar, (2008): Workers Participation in Management and Industrial Relation, Rawat Publication, Jaipur & Delhi.
4. Singh, Usha & Singh, H. P. (2011):Child Labour in India :Problem and Solutions, Classical Publication, New Delhi
5. Gupta, P. K., Labour Economics, Vrinda publications, New Delhi.





  
22-11-2023

  
24/09/23

**SEMESTER – III**  
**ECONOMICS OF GROWTH**  
**PAPER – I**

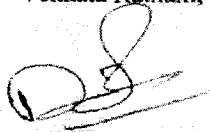
- Unit I - Economic Growth: Economic Growth and Development, meaning and Measurement of Economic Development, Vicious Circle of poverty, Pre Condition of Economic Development, Factors of Economic Growth: Economic and Non Economic, Meaning and Characteristics of and Underdeveloped Country, Obstacles of Economic Development.
- Unit – II- Meaning and Characteristics of Modern economic growth, Saving, Investment and Capital Formation, Human Resources and Economic Growth, Structural Changes under Development, Human Capital formation, A note on the demonstration effect, Human development Index, Gender Inequality index, Women empowerment index, Multidimension index.
- Unit – III- Theories of Growth :- Classical Theory .Adam Smith Theory of growth, The Ricardian Theory of growth, Mills theory of growth, Malthusian theory of development, Harrod - Domar model of growth, John Robinson model of growth model.
- Unit – IV - Meads Neo-Classical Model of growth, Solow Long- Run model of growth, Kaldor model of Distribution, Approaches to Growth: - Kaldor model of Growth, The Models of Technical Change, Pesinetti model of Profit and Growth.
- Unit - V - The Mahalanobis Four Sector Model. The Concept of Capital Output Ratio, Input-Output Analysis, Project Evaluation and its methods and Cost – Benefit Analysis, Economic Growth and Income Distribution :The Kuznets Hypothesis.

**Text Books**

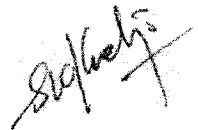
1. Jhingan, M.L. (2008) 31<sup>ST</sup> edition, The economics of development and planning, Vrinda publication pvt. Ltd.
2. Shinghai G.C. & Mishra J.P. (2013) Macroeconomic Analysis, Sahitya bhawan publication Agra.
3. Mishra, J.P. (2012) Economics of Growth and development Sahitya bhawan publication Agra.

**Reference Books**

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. Subrahmanya (Eds.) (2000). The Unorganised Sector : Work Security and Social Protection. Sage Publication, New Delhi.
  3. Lester, R.A. (1964). Economics of Labour. (2<sup>nd</sup> 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. Rosenberh M.R. (1998), Labour Markets I Low Income Countries in Chenery, H.B. and T.N. Srinivasan, (Eds.) The Handbook of Development Economics, North-Holland, New York.
- Venkata Ratnam, C.S. (2001), Globalization and Labour- Management Relations Dynamics of change, Sage publications/ Response Books, New Delhi



22/4/2023



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

- Unit - I Definition, Nature and scope of Public Finance, Role of Public Finance in Developing Countries, Principles of Maximum Social Advantages. Taxation – features of good tax system, Objectives of Taxation, Principles of Taxation, canons of Taxation, Shifting, Effects and Incidence of Taxation. Impact of Tax under Laws of Returns and Perfect Competition.
- Unit - II Public Expenditure: - Meaning and Scope, Different Forms of Expenditure, Canons of Public expenditure, Structure and Growth of Public Expenditure in India. Trends in Central Government Expenditure. Economic Effects of Public Expenditure on Production and Distribution. Public Expenditure and Economic Growth.
- Unit – III Public Revenue: - Meaning, classification, sources, principles and effects of public revenue. Classification of taxation: - Indirect & Direct Tax, Goods and Service Tax (GST) New Direct tax, Central Excise, Custom Duties, Taxes on Land and Agriculture, Value Added Tax, Modvat, Service Tax, Taxable Capacity.
- Unit - IV Public Debt – Meaning and Objectives of public debt, Different Sources of Public Debt, Redemption of Public Debt. Principle of Public Debt Management, Growth of Public Debt in India, Burden of Public Debt.
- Unit – V Budget – Meaning, Objectives , Different forms of Budget, Budgetary Process in India, Kinds of Budget – traditional Budget, Performance Budget, Zero Based Budget, Outcome Budget, Gender Budget. Budget Theory – Classical Viewpoint (Balance Budget), Modern View Point (Imbalanced Budget.)

**Text Book**

1. Lekhi, R.K.,(2014), Public Finance, Kalyani Publication Ludhiana New Delhi
2. S.K., Singh, (2013) Principal of Public Finance Sahitya Bhavan Publication, Agra.
3. Pant, K.C., (2012) Public Finance
4. Sinha, V.C.,(2013) Public Finance and Economic, Sahitya Bhavan Publication.

**Reference Books**

1. Atkinson, A.B. and J.E. Siglitz (1980), Lectures on Public Economics, Tata McGraw Hill, New York.
2. Government of India (1992), Reports of the Tax Reforms Committee – Interim and Final (Chairman: Raja J. Chelliah).
3. Chelliah, Raja J. et. Al (1981), Trends and issues in India"s Federal Finance, NIPFP. New Delhi.
4. Peacock, A. and G.K. Shaw (1976), The Economic Theory of Fiscal Policy, George Alen and Unwin, London.
5. Sahni, B.S. (Ed.) (1972), Public Expenditure Analysis: Selected Readings, Rotherdam University Press.
6. Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, Mcgraw Hill, Kogakusha, Tokyo.
7. 14th Finance commission Report-2015
8. Central Govt. and Stat Govt. Budget.

*MVP*  
22.11.2023

*31/11/23*  
23/11/23

*[Signature]*  
*[Signature]*

**SEMESTER- III**  
**INTERNATIONAL TRADE**  
**Paper – II**

- Unit – I **Theory of International Trade** – Meaning and Distinguishing Features of Inter-regional and International Trade, The Comparative Cost Theory, Refinements of the Comparative Cost Theory, Opportunity Cost Theory, Theory of Reciprocal Demand.
- Unit – II **Modern Theory of International Trade**, Factor Price Equalization, Theorem of International Trade, Stolper Samuelson and Rybezynski 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 Tariff 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, Equilibrium and Disequilibrium in the BoP, Measures to Correct the Adverse BoP, Adjustment Mechanisms of BoP, Devaluation- The J-curve effect, Marshall-Lerner's Conditions under Devaluation, Expenditure Reducing and Expenditure Switching Policies and Direct Control.
- Unit – V **Income Adjustment-** 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, (5<sup>th</sup> Edition), Routledge Publishers, London.
5. Dunn, R. M., and J. H. Mutti (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.

*Sidhu*  
*D.S.*  
*22-11-2023*  
*23/11/23*

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

- Unit - I **The Economics of Environment** – An elementary introduction, The big economy, causes of Environmental Degradation, Ethics, Economics and the environment. The Circular Flow Model, **Natural resources exploitation**, The efficient and optimal use of natural resources. **The Theory of Optimal Resource Extraction**- Non Renewable resources two-period model, an Extension of the multi-period model of non-renewable resource depletion. **Welfare Economics and the Environment** - Bentham and Pareto Criteria.
- Unit - II **Economic Theory of Environmental Issues** - The Theory of Environmental Externalities, Accounting for Environmental Cost, Internalizing Environmental Cost, Positive Externalities. Market Failure and Public Goods, Social choice of optimum pollution, Pigovian Taxes and subsidies, and Maximization of Social Welfare Under Perfect Competition.
- Unit – III **Population, Agriculture and The Environment** - Population and the Environment- Demographic Transition and Environment, Population Growth and Economic Growth, Agriculture, Food and Environment, Environment and Neo-Classical Model of Natural Resources, Energy and Resources.
- Unit - IV **Ecological Economics, National Income and Environmental Accounting** - Ecological Economics Basic Concept, Natural Capital and Accounting for Changes in Natural Capital, Macro Economic Scale, Model of Economic and Ecological System. **National Income and Accounting** - Natural Capital, System of Environment and Economic Accounts (SEEA).
- Unit – V **Environmental Value and Methods** - Use Value, Option Value and Non-Use Value, Environmental Cost Benefit Analysis, **Methods of environmental valuation**- Hedonic Pricing, Travel Cost Method, Contingent Valuation Method. Irreversibility, risk and uncertainty.

**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. Thomas and Callan (2009): Environmental Economics.
6. Charles D. Kolsted (2005): Environmental Economics, Oxford University Press.
7. Brian Roach, Jonathan M. Harries and Anne Marie codur (2015): Microeconomics and the environment, Global Development and Environment Institute, Tufts University, Medford.
8. Jonathan M. Harries and Anne-Marie codur (2004): Macroeconomics and the environment, Global Development and Environment Institute, Tufts University, Medford.
9. Prof. Rohini Prasad, Manoj Kumar Jhariya and Arnab Banerjee-- Advances in Sustainable Development and Management of Environmental and Natural Resources. *Publish by CRC Press Taylor & Francis Group Apple Academic Press Canada and UK*

*Signature*

*Signature*

*imp*  
*22/11/2023*

*Signature*

Impct

**SEMESTER-III**

**DEMOGRAPHY**

ECO-0204-15-

**Paper-v**

(with effect from 2021-22)

**Unit -I** Demography –Meaning and Importance, Scope and Nature Techniques of Demographic Analysis, ,Tools of Demographic Analysis, Population Education, Population Growth and Economic Development, population policy.

**Unit –II** Theories of Population-Pre Malthusian theories of Population, Malthusian theory of Population, Theory of Optimum Population and Theory of Demographic Transition- C.P. Blacker theory, Karl Sax's theory, Donald Olen Cowgills theory.

**Unit –III** Migration-Meaning and Importance, Classification of Migration ,Factors Affecting Migration, Hurdles in Migration, Measurement of Migration, Effects of Migration, Theories of Migration, Pull and Push theory of Migration, Ravenstein theory of Migration, Stepwise Movement theory, Lee's theory of Migration, Urbanization ,Causes and Effects of Urbanization, Methods to Measure Urbanization.

**Unit –IV** Fertility- Meaning and Importance ,Factors Affecting Fertility ,Causes of high birth rate in India, Measurement of Fertility –Crude birth rate, General Fertility rate, Age specific Fertility rate, Total Fertility rate, Gross Reproduction rate and Net Reproduction rate..

**Unit V-** Mortality Meaning and Importance ,Factors Affecting Mortality ,Causes of high death rate in India, Measurement of Mortality, Crude death, Specific death rate, Infant Mortality rate, Standardized death rate, Child Mortality rate, Maternal Mortality rate, Life table.

  
25/10/2021



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

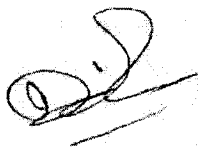
- Unit-I Economic Planning; Objectives. Achievements and Failures of Indian Plans, Resource Mobilization in Indian Plans, Strategy of Indian Plan. Saving, Capital Formation and Overall Growth Rate, Twelfth Five Year Plan (2012-17) Achievement of Eleventh Five Year Plan, Niti Ayog.
- Unit-II Theories of Development: - The Marxian Model, The Schumpeterian Model, Keynesian Theory of Development, Rostow's Stages of Economic Growth. Marx's Stages of Growth, Disguised unemployment as saving potential.
- Unit-III Approaches to Development :- Arther Lewis Model of Unlimited Supply of Labour, Ranis & Fie Model, Leibenstein's Critical Minimum Effort thesis, The Big push theory, Nelson's theory of low level of equilibrium.
- Unit-IV Development Models: - Theory of Balanced Growth, External Economics, Industrialisation and Balanced Growth, The concept of Unbalanced Growth, Dualistic Theory, The Limits to Growth Model, Myrdal's Theory of Circular Causation.
- Unit -V Investment Criteria in Economic Development; The social Marginal Productivity Criteria, The capital Turnover Criteria, The Re-investment Criterion, Time Series, Criterion, the Choice of Techniques, The Harris -Todaro model of Migration and Unemployment.

**Text books**

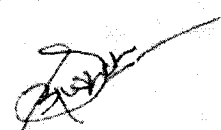
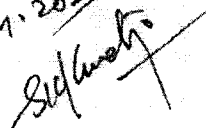
1. Jhingan, M.L. (2003), The Economics of development and planning, Vrinda publication pvt. Ltd.
2. Shinghai, G.C. & Mishra, J.P. (2013) Macro Economic Analysis, Sahitya bhawan publication Agra.
3. Mishra, J.P. (2012) Economics of Growth and Development, Sahitya bhawan publication Agra.

**Reference Books**

1. Todaro, M.P. (1996) (6<sup>th</sup> edition) Economic Development, Longman London.
2. Solow, 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. Shrinivasan (1995), Hand book of Development Economics, Vol 1, 2 & 3, Elsevier; Amsterdam.
5. Ghatak, S. (1986), An introduction to development Economics, Allen & elnein, London.
6. Sen, A.K. (Ed.) 1990 growth Economics, Penguin, Harmondsworth.
7. Dasgupta, P.A.K. Sen and S. Marglin (1972), Guidelines for project Evaluation, UNIDO, Vienna,
8. Mehrotra, S. and J. Richard (1998), Development with a Human Face, Oxford University Press New Delhi.



22-4-2023



**SEMESTER- IV**  
**INTERNATIONAL ECONOMICS**  
**Paper – II**

- Unit – I Foreign Trade and Economic Development, The Theory of Regional Blocks- Customs Union, Static and Dynamic Effects of a Customs Union and Free Trade Area, Rational of Economic Progress of SAARC, ASEAN, IBSA and BRICS.
- Unit – II Regionalism of European Union, The Euro-Dollar Market, NIEO, WTO- Functions of WTO, Multilateralism and WTO, TRIPS, TRIMS, Agriculture, Market- Access, Textile Clothing, Patent Rights, Ministerial Conferences of WTO, UNCTAD.
- Unit – III Theory of Short Term & Long Term Capital Movement and International Trade- Port Folio Investment and International trade, FDI and International Trade, Merits & Demerits of Long Term Capital Movement in International Trade, Factors Affecting International Capital Movement, The Transfer Problem, Optimum Currency Area, and Global Financial Crisis.
- Unit – IV International Monetary System, International Liquidity, IMF, World Bank, The World Bank Group, ADB, Foreign Capital in India.
- Unit – V International Organization's- G-20, G-15, BIMSTEC, OPEC, NAFTA, OECD, Working and Regulations of MNCs in India.

**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, M.S. (2000), International Economics: Study Guide and Work Book, (5<sup>th</sup> Edition), Routledge Publishers, London.
5. Dunn, R. M. And J. H. Mutti (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 Reader, McGraw Hill International, Singapore.
8. Krugman, P. R. and M. Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.

*Safwanth*

*DL*

*MP*  
22-11-2023

*Rajesh*

**SEMESTER- IV**  
**PUBLIC ECONOMICS**  
**Paper – III**

- Unit - I Role of Public Finance in Economic Development, Major Fiscal Function, Concept of Social Goods. Fiscal Federalism in India, Principles of Fiscal Federalism, Vertical and Horizontal Imbalances.
- Unit - II Federal Finance – Principle of Federal Finance in India, Centre – State Financial Relation, Resource Transfer From Centre to States, Godgil's Formula. Fifteen Finance Commission.
- Unit – III Indian Tax System: - Salient Features, Merits, Demerits, Measures for improvement of Indian Tax system Government measures for improvement: - Taxation enquiry Commission (1953-54), Wanchoo committee, Jha Committee, Kelkar Committee Report  
, Chelliah Committee Recommendations for reforming the taxation system.
- Unit - IV Analysis of Centre & Chhattisgarh Govt. Budget, kinds of financial deficit taxable and non taxable income of Chhattisgarh. Performance of the Chhattisgarh government budget.
- Unit – V Financial Responsibilities and Budget Management Act, Structure and growth of public expenditure in Chhattisgarh, Revenue Expenditure and Capital Expenditure, Plan & Non Plan expenditure in Chhattisgarh.

**Text Books**

1. Lekhi, R.K.,(2014), Public Finance, Kalyani Publication, Ludhiana New Delhi.
2. S.K., Sing, (2013) Principal of Public Finance Sahitya Bhavan Publication, Agra.
3. Pant, K.C., (2012) Public Finance
4. Sinha, V.C., (2013) Public Finance and Economic, Sahitya Bhavan Publication.

**Reference Books**

1. Government of India (1992), reports of the Tax Reforms Committee – Interim and Final(Chairman : Raja J. Chelliah).
2. Chelliah, Raja J. et. Al (1981)., trends and issues in India's Federal Finance, NIPFP. NewDelhi.
3. Peacock, A and G.K. Shaw (1976), The Economic Theory of Fiscal Policy, George Allen andUnwin, London.
4. Sahni, B.S. (Ed.) (1972), Public Expenditure Analysis : Selected Readings, RotherdamUniversity Press.
5. Jha, R. (1998), Modern Public Economics, Routledge, London.
6. Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGrawHill, Kogakusha, Tokyo.
7. Comes, R. and T. Sandler (1986). The Theory of Externalities, Public Goods and Club Goods, Cambridge University Press. Cambridge.
8. Economic Servey Centre and State (2014-15)
9. 14<sup>th</sup> Finance commission Report- 2015
10. Central Govt. and Stat Govt. Budget- 2015

*S. K. Singh*

*D. J.*

*22-4-2023*

*22-4-2023*

**SEMESTER- IV**  
**ECONOMICS OF SOCIAL SECTOR**  
**Paper – IV**

- Unit – I **Environmental Pollution-** Classification of pollution- Air, Water and Land Pollution, Cause & Effects of pollution. **Pollution control targets** – A Static model of efficient flow pollution. Pollution control strategies, Equi- Marginal law of pollution.
- Unit – II **Pollution Policy with Imperfect Information-** Global Environmental Problems- Climate change, greenhouse effect, Global warming, Ozone depletion, Game Theory, Environmental Input/ Output Analysis.
- Unit – III **Development and Environment:** Relation between development & environmental stress, The Environmental Kuznets Curve, The concept of Sustainable Development, Indicators of sustainability, Measuring sustainable development, Green Economy.
- Unit - IV **Economics of Resources-** Classification of resources, Renewable & Non-renewable resources, Optimum use of resources. Land resources, Forest resources. **Energy-** Sources of energy, energy efficiency & environment, International Trade and the Environment.
- Unit – V **Economics of Education and Health-** Expenditure on education, Productivity of Education, The Return of Education, Human Capital vs Physical Capital. **Health Economics-** Determinants of health care, Inequalities in health. **Gender Perspective-** IIDI, GDI, GEM and HPI.

**Reference**

1. Baumol, W.J. and W.E. Oates (1988): The Theory of Environmental Policy, (2nd Edition), Cambridge University Press, Cambridge.
2. Berman, P. (Ed.) (1995): Health Sector reform in Developing Countries: Making health development sustainable, Boston: Harvard Series on Population and International health.
3. Blaug, M. (1972) : Introduction to Economics of Education J Penguin, London.
4. Bromely, D.W. (Ed.) (1995) : Handbook of Environmental Economics, Blackwell, London.
5. Cohn, E. and T. Gaske (1989) : Economics of Education, Pergamon Press, London.
6. Fisher, A.C. (1981): resource and Environmental Economics, Cambridge University Press, Cambridge.
7. Hanley, N.J.F. Shogern and B. White (1997): Environmental Economics in Theory and Practice, Macmillan.
8. Hussen, A.M. (1999) : Principles of Environmental Economics, Routledge. London.
9. Jeroen, C.J.M. van den Bergh (1999): Handbook of Environmental and Resource Economics, Edward Elgar Publishing Ltd. U.K.
10. Thomas and Callan (2009): Environmental Economics.
11. Prof. Rohini Prasad, Manoj Kumar Jhariya and Arnab Banerjee– Advances in Sustainable Development and Management of Environmental and Natural Resources. *Publish by CRC Press Taylor & Francis Group Apple Academic Press Canada and UK*

*Signature*

*Signature*

*22.4.2023*

*Signature*