

PAPER – I - MICRO ECONOMIC ANALYSIS

Module-1 : Demand Analysis & Selective theories of firm

Cardinal versus ordinal analysis – Indifference curve analysis – separation of income and substitution effect – Derivation of Demand curve from Price Consumption Curve – Revealed Preference theory – Hicks revision of demand Theorem – Cobweb theorem – Baumol's sales maximization model – Williamson model of managerial discretion – Bain's limit pricing – Marris model of managerial enterprise.

Module-2 : Production and Cost

Production function – Law of variable proportions - returns to scale – production function of Multi-product firm – producer's equilibrium - elasticity of substitution - Euler's theorem; Cobb-Douglas production function – CES production function – Derivation of cost function from production function – cost function – traditional and modern cost analysis.

Module - 3 : Market and Competition

Price and output determination under different market conditions – perfect competition, monopoly discriminative monopoly, monopolistic competition and oligopoly – price rigidity under oligopoly – price leadership models – non collusive models – Cournot, Edgeworth & Chamberlin.

Module - 4 : Factor Pricing and Economics of Uncertainty

Factor pricing in perfectly and imperfectly competitive markets – Bilateral monopoly – St. Petersburg paradox – Bernoulli's Hypothesis – Newmann – Morgenstein Utility index under risky situation – Gambling – farmer's gambling against nature – The investors choice problem – Friedman – Savage hypothesis – Markovitz Hypothesis.

Module – 5 :

General Equilibrium analysis and Welfare economics

Partial and general equilibrium – Walrasian system – 2X2X2 model – equilibrium of production – equilibrium of consumption – simultaneous equilibrium of production and consumption – General equilibrium and the allocation of resources – welfare economics – The Pareto optimality criterion – social welfare function – welfare maximization and perfect competition – Arrow's impossibility theorem – compensation principle.

Reference:

1. Ahuja H.C. (1991) Advanced Economic Theory, S.Chand & Co., New Delhi.
2. Kreps, David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
3. Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
4. Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York.
5. Sen, A. (1999), Microeconomics : Theory and Applications, Oxford University Press, New Delhi.
6. Stigler, G. (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.
7. Varian, H. (2000), Microeconomic Analysis, W.W. Norton, New York.
8. Baumol, W.J. (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
9. Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi.
10. Da Costa, G.C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
11. Salvatore, Dominic (1991), Micro Economic Theory, 3rd Edition, McGraw Hill, New Delhi.

PAPER II - MACRO AND MONETARY ECONOMICS

Module -1 : National Income and Accounts

Circular Flow of Income in two, three, and four sector economy - Forms of National Income Accounting - Social accounting, input - output accounting, flow of funds accounting and balance of payments accounting.

Module -2 : Money supply and Demand for money

Composition of money supply – money supply function – Inside and outside money (Gurley and Shaw) – High powered money and money multiplier – Financial intermediaries – Classical approach to demand for money – Keynes’ liquidity preference approach.

Module -3 : Post Keynesian demand for money

Patinkin and Real Balance effect – Boumol’s approach – Tobin’s Theory – Friedman and the Modern Quantity Theory – Crisis in Keynesian Economics and revival of monetarism.

Module IV : Keynesian synthesis and New Classical Macro Economics

Keynesian IS – LM model, extension of IS – LM model with Government Sector, Labour Market and Flexible Price – The New Classical approach – policy implications.

Module V : Theories of Inflation

Classical, Keynesian and Monetarist approaches to inflation, Philips Curve Analysis – Samuelson and Solow – The natural rate of unemployment hypothesis – Tobin’s modified Philips curve – policies to control inflation.

Reference:

1. Ackley, G. (1978), Macroeconomics : Theory and Policy, Macmillan, New York.
2. Blackhouse, R. and A. Salansi (Eds.) (2000), 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. Bornbusch, 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. Fredericck (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. Scarfe, B.L. (1977), Cycles, Growth and Inflation, McGraw Hill, New York.
10. Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.
11. Surrey, M.J.C. (Ed.) (1976), Macroeconomic Themes, Oxford University Press, Oxford.

Text Books :

1. Ghosh. B.N. & Rama Ghosh, (1989). Fundamentals of Monetary Economics, Himalaya Publishing House, Delhi.
2. Rana. K.C. & K.N. Varma (1994), Macro Economic Analysis, Vishal Publications, Jalandhar – 144 008.

PAPER III – MATHEMATICAL AND STATISTICAL METHODS

Module 1 : Differential Calculus

1. Functions of one or two variables – Homogenous Function – Revenue and cost functions – Applications in Economics.
2. Rules of derivatives of $Y = f(X)$ – First and second order derivatives – Partial derivatives (simple problems).
3. Maxima, Minima and their applications in Economics.

Module 2 : Matrix Algebra

1. Determinants – Properties – Cramer's rule.
2. Matrices – Addition, Subtraction, Multiplication and Inverse of a matrix – Solving a system of linear equations.
3. Leontief's open static Input – Output model – Hawkin Simon conditions – Output for a given final demand.

Module 3 : Collection and presentation of data

1. Collection of data – Census and sample method – Random versus Non-random sampling.
2. Primary data – Direct Personal Investigation – Sending Enumerators – Sending Questionnaires by post – Criteria for a good questionnaire – Sources of secondary data.
3. Classification of data – Tabulation – Bar and Pie Diagrams – Frequency graphs.

Module 4 : Descriptive Statistical Measures

1. Average, Mean, Median and Mode – Relative merits and demerits.
2. Dispersion – Range, Standard Deviation – Coefficient of variation.
3. Skewness – Tests of skewness – Pearson's and Bowley's Coefficient of Skewness.

Module 5 : Quantifying Relations

1. Correlation – Simple, Partial and Multiple – Pearson and Spearman's method.
2. Regression – Linear and non-linear – Least squares method of estimating regression lines.
3. Association of attributes. Yule's Coefficient and Chi-square method.

Text Books :

1. Elhance, D.N. (2003) Fundamentals of statistics (Kitab Mahal: New Delhi).
2. Gupta, S.P. (2000) Statistical Methods (Sultan Chand : New Delhi).
3. Metha and Madnani (1995) Mathematics for Economists (Sultan Chand : New Delhi).
4. Veerachamy, R (1998) Quantitative Techniques (New Age International – New Delhi).

Reference Books :

1. Allen R.G.D. (1984) Mathematical Analysis for Economists (Macmillan : London)
2. Chiang, A.C. (1998) Fundamentals methods of Mathematical Economics (McGraw Hill : New Delhi).
3. Croxton and Cowden (1973) Applied General Statistics (New Delhi: Prentice Hall of India).
4. Dowling Edward T (1996) Mathematical Methods (Schaum series : New York).
5. Miller, R.K. (1995) Introduction to Statistics for Business and Economics (St. Martin Bros. New York).

PAPER IV – FISCAL ECONOMICS

Module 1

Introduction – The theory of social goods – Partial equilibrium and general equilibrium approach to social goods – Market failure – Public goods, merit goods and mixed goods – social Bads – External costs and pollution – Cost benefit analysis – Pricing of public utilities – Arrow's Impossibility Theorem.

Module 2

Public Expenditures – structure and growth – Causes – Evolution – Indian public expenditure – Appraisal – Wagner's Law of increasing state activities – Wiseman – Peacock Hypothesis; Pure theory of public expenditure.

Module 3

Public Revenue structure – Taxation principles – New theory of Fiscal incidence – Effects on efficiency and capacity output – The rationale behind VAT – Indian Tax Structure and trends.

Module 4

Fiscal Stabilization – Fiscal effects on aggregate demand and employment – Effects on inflation – Economics of the public debt – Automatic Vs discretionary stabilization – Built in flexibility – Functional Finance – Principles of debt management and repayment.

Module 5

Fiscal policy – objectives – Fiscal policy during planning in India – Budgetary process – Deficit financing for development – Theory of Federal Finance – Finance Commissions (Last Two) and Federal Finance in India.

References:

1. Musgrave and Musgrave : Public Finance and Policy
2. Lakdawala : Union State Financial Relations
3. A.P.Gupta : Fiscal Policy for Employment generation
4. Houghthn : Readings in Public Finance
5. Ved Gandhi : Some aspects of India's Tax Structure
6. T.Mathew : Economics of Public Expenditure
7. Broom and Jackson : Public Economics (St. Martin & Co) Paper back.

PAPER V – INDIAN ECONOMIC DEVELOPMENT AND POLICY

Module 1 : Introduction

The concepts of Growth and Development – The State of the Indian Economy at the time of political independence – Characteristics of Indian Economy as an Underdeveloped Economy – Major Issues of development – Determination of development.

Module 2 : Planning, Poverty and Inequality

Planning Broad objectives – Targets – Strategies – Current plan in detail – Performance Appraisal – Micro – level planning – Panchayath Raj – Inflation – Population – Unemployment – Poverty – Inequality in income distribution – National Common Minimum Programme. (NCMP).

Module 3 : Agriculture

Land Reforms – Agricultural Productivity – The New Strategy and its effects – agricultural policy – recent developments in agricultural and policy changes.

Module 4 : Industry

Structural changes in industrial development – Industrial policy resolution and subsequent policy changes – public sector industries – their role and contribution – control of industrial concentration – multinational – corporations – recent trend towards liberalization.

Module 5 – Foreign Trade

Overall trends – composition and Direction of imports and exports – export markets and export promotion – import substitution – Balance of Payments Problem – Globalisation – Liberalisation, Privatisation and Globalisation of the Indian Economy.

References:

1. Jagadish Bhagavathy and Padma Desai – India : Planning for Industrialisation.
2. Awashi, S.K. – Economic Development and Planning in Retospect
3. Rudder Dutt and K.P.M. Sundaram : Indian Economy
4. Brahmananda P.R. and V.R. Pachmukhi, (ed) – The Development process of the Indian Economy.
5. Bhata, B.M. – Poverty., Agriculture and Economic Development
6. Bhata, R.Hazeri – The Structure of the Indian Economy.
7. Francine R, Frankel – India's Political Economy 1947 – 1977 The Gradual Revolution.
8. Hanumantha Rao, C.H. – Technological change and distribution of gains in Indian Agriculture.
9. Prabhu Ghate – Direct attacks on Rural Poverty – Policy Programmes and Implementation.
10. Mansure Hoda – Problems of Unemployment in India.
11. Pramit Chaudhuri – The Indian Economy, Poverty and Development

12. Nadkarni, M.V. – Agricultural Prices and Development with Stability.
13. Hicks, J.R. Mukhejee, M and Syamal K. Ghose – The Frame work.
14. Thinniah, G – Inequality and Poverty.
15. Rao, V.K.R.V. – Indian Socialism.
16. Vasantha Dessal – Issues in Agriculture and Forestry.
17. Rajhnas Kaur – Agricultural price policy in Economic Development
18. Singh V.B. – Multinational Corporations and India.
19. Meki. C.N. – War Against inflation : The story of the fally Rupeed 1943 – 1976.
20. Lawrence A veit – India’s Second revolution – The Dimensions of development.
21. Sarvesward Rao and V.N.Deshpande (Ed) – Poverty : An Interdisciplinary Approach.
22. Madhava, C.D. (Ed) – Some problems of India’s Economic policy
23. Vakil, C.N. – Industrial Development of India – Policy and problems.
24. Rao, V.K.R.V., S.R.Son, V.Divatia and Uma Datta (Eds) – Paper on National Income and Allied Topics.
25. Uppal J.S. (Ed) – India’s Economic problems.
26. Vadukak Degil (Ed) – Infrastructure for the Indian Economy
27. Narayana D.L. and L.K. Despande and R.K. Sinha – Planning for Employment
28. V.S. Mahajan (Ed) – Studies in Indian Economy
29. Pramit Chaudhri (Ed) – Aspects of Indian Economic Development
30. Pramit Chaudhri (Ed) – Reading in Indian Agricultural Development
31. Planning Commission, Government of India – Five Year Plan Documents.

PAPER VI – ENVIRONMENTAL ECONOMICS

Module – 1 Concept and Introduction

Environmental Economics – Concepts, Nature and Scope – Nexus between Economics and Environment – Environment and Economic Development – Sustainable Development – Private Versus Social Costs Externalities.

Module – 2 Environmental Resources and Problems

Environmental Problems in India – Energy : Renewable and Non-renewable energy resources – Access to common property Resources (CPR) – Pollution 1. Domestic, Solid waste, Health and Sanitation and Safe Drinking water, 2. Industrial Air pollution, Water Pollution, Soil Pollution, Noise Pollution, 3. Agricultural soil Erosion Deforestation and 4. Automobile Pollution.

Module – 3 Environmental Issues

Environmental Quality – Non Marketed goods – Trade off between Environmental Protection and Economic Growth - Environmental Education.

Module – 4 – Environment and Society

Pollution and Environment – Impact of Population Growth (Trends, Sex ratio, Rural and Urban) on Environment – Poverty and Environment – urbanization and Environment – Peoples participation in Environmental movement.

Module – 5 - Management and Policy

Fiscal tools – pollution taxes – Subsidies, Pollution Control Boards – national and International Environmental Policies – Legislative Measures of Environmental Protection in India.

Reference:

1. Karpagam I.M., “Environmental Economics”, Sterling Publishers, Pvt. Ltd., New Delhi
2. Dulasi Birundha, “Energy Economics”, Sterling Publishers, Pvt. Ltd., New Delhi
3. Guva, D.D. and Qumar Absan, “Energy and Economic Development”, Amar Prakasham, New Delhi.
4. Sankaran, S., “Environmental Economics”, Magalam Publications, Madurai.
5. Sankar, V., “Environmental Economics (Ed)”, 2001, Oxford University Press, New Delhi.
6. Rabindra, N.Bhattacharya, “Environmental Economics (Ed)”, 2001, Oxford University Press, New Delhi.
7. Agarwal, S.K., “Environmental Issues and Themes”, (1997), APH Publishing Corporation, 5 – Ansari Road, New Delhi.
8. Sumi Krishna, “Environmental Politics Peoples Lives and Development choices”, (1996), Saga Publications, New Delhi.
9. Baumol, W.J., and W.E.Oates, “The Theory of Environmental Policy”, (1988), Second Edition, Cambridge University Press, Cambridge.

PAPER VII – INTERNATIONAL ECONOMICS

Module 1

Meaning and contents of International Economics – Importance of International Economics – Internal and International Trade – Ricardian Theory – Heckscher – Ohlin – Samuelson Theory – Leontief Paradox.

Module – 2

Terms of trade – Tariffs and their Effects on producers and consumers – Free Trade and Protection – Arguments for and against free Trade – long term trends in the international terms of trade between primary and manufactured commodities – WTO and Most Favoured Nations (MFN) clause.

Module – 3

Foreign exchange market – clearing – Hedging – specialisation forward Vs spot rates – pegging fixed and floating rates – Balance of payments – Equilibrium and Disequilibrium – Methods of correcting disequilibrium.

Module – 4

IMF – The role of Gold in the IMF – Breakdown of Bretton woods – Special Drawing Rights (SRDS) – International liquidity – The Debt Crisis of the Third World – New International Economic Order.

Module - 5

International capital flows – World Bank and Transnational corporations – The Debt crisis of the Third World. The Indian case – Gold standard.

Reference:

1. Abbot C. International indebtedness and the developing countries.
2. Agarwala P.N. New International Economic Order – An overview.
3. A.Ansari, H.Balassa, W.Singer – The International Economics and Industrial Development
4. Salvatore Dominic – International Economics
5. Lindert Peter – International Economics
6. M.M.Hooqveld – The third world in global development.
7. Meckinnon, I – Money in international trade.
8. Michale Ponsé – Problems of International Money.
9. Numbenkamp, P- International debt crisis of the third world.
10. Vaish M.C. & Sudhama Singh – International Economics.
11. Wilson PRD – International Economics
12. Enders, W & Lapan – International Economics
13. Robson Peter – The economics of International Integration.
14. Brown A.J. – International to the world economy.

15. IMF – World Economic Outlook.
16. Meagher F – An International redistribution of wealth and power.
17. Peck Foreman James – History of World Economy.
18. Meade J.E. – Trade and Welfare.
19. Meade J.E. – The balance of Payments
20. Progress Publisher Moscow – Political Economy
21. V.I.Lenin – imperialism – The Highest state of capitalism (Progress Publishers, Moscow).
22. H.Singer, Neelamba Hatti & R. Tander – Economic Theory and New World order (1987, Ashish Pub, House, New Delhi).

Journals :

1. Finance and Development
2. International Affairs.

PAPER VIII – RESEARCH METHODOLOGY

Module 1

Science – Its meaning and characteristics – The meaning of ‘research’ – Specific features of Research in Social Sciences as opposed to Physical and Natural Sciences – Objectivity in research – Basic categories in Scientific Method – Facts – Concepts – Causality – Uncertainty – Probability.

Module 2

Methods of Research – Deductive and Inductive Reasoning – Steps of scientific method – Historical Method – Case study – Sample surveys – Various sampling methods – Importance of proper sampling design.

Module 3

Steps in Research – Formulation of a Research problem – Guiding principles in the choice of a Research topic – Role of Review Literature – Formulation of Research Design – Model building – Hypothesis; concept, definition, formulation and testing.

Module 4

Secondary data – some important sources: NSSO, CSO, Economic survey, Season & Crop Report, Agricultural Census, Livestock Census, Annual Survey of Industries, RBI Reports, Primary Data Collection - Tools – Observation, Schedule, Questionnaire – principles underlying construction of a questionnaire – preparation of master table – data processing – Analytical Tables.

Module 5

Reporting Writing – Structure and General Format – Style – Use of footnotes – Citations – presentation of tables, diagrams, charts and maps – Bibliography.

Books for Reference:

1. Popper : The Logic of Scientific discovery
2. Milton Friedman : Essays in Positive Economics
3. E.Nagel : The Structure of Science
4. Cohen & Nagel : An Introduction to Logic and Scientific methods
5. C.T.Kurien (Ed) : A Guide to Research in Economics
6. P.V.Young : Scientific Social Surveys and Research
7. Dhondyal & Wills : A guide to Research Methodology
8. Puttasawmian & Nakkiran : Research Methodology
9. Sonachalam : Research Methodology
10. Good & Hatt : Methods in Social Research
11. Wilson Gee : Social Science Method
12. Machlup.F. : Methodology in Economics
13. Moser and Kalton : Survey method in Social investigation
14. C.J.Parsons : Thesis and Project Work
15. Sheridan Baker : The Practical Stylist

PAPER IX – MANAGERIAL ECONOMICS

Module – 1

Demand Forecasting – Interview and survey approach – Projections – short term forecasting – Forecasting demand for new products – Forecasting procedures – Forecasting Methods: Survey, Time series, Delphi methods.

Module – 2

Pricing objectives – Types of pricing – Transfer pricing – Full cost pricing – Odd number pricing – peak – load pricing – Limit pricing – price leadership models – price linings – price discounts – pricing of multi – product firm.

Module – 3

Capital Budgeting – The process – Cash flows and outlays – valuation of future cash flows – present value – cost of capital – certainty Vs Uncertainty methods of ranking alternative investments – project appraisal – inventory management.

Module – 4

Profit – Measurement – Break even analysis – Profit Policy, Planning and Forecasting.

Module – 5

International Business environment, WTO and small business, changes in overall macro economic environment for business – liberalization and deregulation implication for manager.

Reference:

1. Joel Dean – Managerial Economics
2. Maheswari and Varshney – Managerial Economics
3. C.T.Kurian – Global Capitalism and Indian Economics
4. Bimal Jalan – The Indian Economy
5. Dutt & Sundaram – Indian Economy.

PAPER X – INDUSTRIAL ECONOMICS

Module – 1 Introduction and Structural Change

Process and patterns of Industrialisation – Industrial structure and change – Alternative patterns – Hoffman’s Hypothesis of market economies – Simon Kuznet’s Interpretation of secular changes in industrial development – Industrialisation in Planned Economics : The key role of capital goods sector – Soviet experience – H.B. Chenery’s patterns of industrial change.

Module – 2 Industrial Location and Industrial Capital

Industrial Organisation – Choice of location – Theoretical approaches to industrial location – project preparation and evaluation – Industrial Finance external and internal sources of funding to an industrial unit – capital structure.

Module – 3 Pricing Policy

Market structure and pricing – pricing policy of private sector and public sector companies – the rationale behind public intervention – pricing of public utilities in India.

Module – 4 Trade Unions and Industrial Disputes

Industrial Relations and Trade Unions. Emergence and Growth of unionism – Theories of Labour Movement – Pattern of trade unionism in India – Achievements and Failures of Trade Union Movement and their solution- Determinates of Industrial Disputes – Methods of settlement of Industrial Disputes – Collective bargaining, Conciliation, arbitration – labour participation management.

Module -5 State and Labour

Increasing role of State in determination of labour matters – Labour Policy of the Government – Social security and labour welfare measures adopted by Government of India – Important labour legislation in India – Industrial Disputes Act – Trade Union Act, Factories Act and Employees State Insurance Act – Impact of ILO on labour legislation Government policy towards agricultural labour – women and child labour.

References:

1. Sutcliffe, R.B. – Industry and underdevelopment.
2. Simon Kuznet – Modern Economic Growth – Rate, Structure and Spread.
3. Hoffman, W. – The Growth of Industrial Economics
4. Bryoc, M.D. – Industrial Development – Guide for Accelerating Economic Growth.
5. Kuchal, S.C. – Industrial Economy of India.
6. Gupta. L.G. – The Changing Structure of Industrial Finance in India.
7. Bhagvathi & Padma Desai – India: Planning for Industrialiation.
8. Shepherd, W.G. – The Economics of Industrial Organisation.
9. Rowleyed, C.K. – Readings in Industrial Economics vol. I & II.
10. Hay, D.A. and D.J. Merris, - Industrial Economics Theory and Evidence
11. Barthwal, R.R. – Industrial Economics

12. Lester, R.A. (1964) "Economics of Labour", 2edn. Macmillan, New York.
13. Mc Conneril, C.R. and S.L. Brue, (1968), "Contemporary Labour Economics", McGraw Hill, New York.
14. Mc Cormick, B. and Smith, Eds. (1968) "The Labour Market", Penguin, Harmondsworth.
15. Desaphande, L.K. and J.C. Sandesara, Eds. (1970), "Wage Policy and Wage Determination in India", Bombay University Press, Bombay.
16. Reynaids. L. (1951), "The structure of Labour Markets", Harper and Brothers, New York.
17. Dulop, J.T. (1957), "Theory of wage Determination", Macmillan, London.
18. Madan B.K. (1977), "The Real wages of Industrial Labour in India", Management Development Institute, New Delhi.
19. Myers, C.A. (1958), "Labour welfare, Trade Unionism and Industry Relations", Himalaya Publishing House, Bombay.
20. Ramasamy, E.A. and U.Ramasamy, (1981), "Industry and Labour", Oxford University Press, New Delhi.
21. Mamoria, C.B. (1966), "Labour problems and social welfare in India", Kitab Mahal, Allahabad.
22. Singh, V.B. ed (1970), "Industrial Labour in India", Popular Prakashan, Bombay.
