



SNDT Women's University Syllabus – PET Economics

1	Microeconomics
2	Economics of Growth and Development
3	Macroeconomics
4	Indian Economy
5	Industrial Economics
6	Agricultural Economics
7	Demography
8	Economics of Gender and Development
9	Labour Economics
10	Public Economics
11	Economics of Social Infrastructure
12	Financial Institutions and Markets
13	International Economics
14	Mathematical Economics
15	Econometrics
16	Urban Economics
17	Rural Economics
18.	Economics of Physical Infrastructure

MICROECONOMICS – I

Sr. No.	Topic and Details
1.	<p>Introduction and Consumer behavior :</p> <p>Basic Concepts-Economic Models, Exogenous and endogenous variable, Optimization and equilibrium. Demand curve, Supply curve, Market equilibrium, comparative statics- Market structures. Extension of demand and supply analysis -Elasticity of demand and supply- Income elasticity- concept , methods of measurement-empirical estimation, relationship between individual demand and market demand, application of elasticity of demand. Consumer behavior-The problem of optimization; budget constraints, consumer preference, utility, choice, derivation of law of demand. Revealed preference- The weak and strong ordering- axioms of revealed preference-law of demand-from revealed preference to index numbers. Revision of demand theory by Hicks- Consumer's surplus.</p>
2.	<p>Production and Costs:</p> <p>law of variable proportions and returns to scale ;Production function: Cobb-Douglas , CES, VES and Translog functions, Cost of production – concepts - Costs in the short run-long run, cost minimization input choices, isoquants – iso-cost, Least cost combination of inputs ; production with two outputs – economies of scope, learning curve.</p>
3.	<p>Partial and General Equilibrium:</p> <p>The competitive firm (partial equilibrium); General equilibrium, efficiency in exchange – equity and efficiency, efficiency in production, the gains from trade, market failures – market power, incomplete information, externalities, public goods.</p>
4.	<p>Welfare economics:</p> <p>Pareto optimality; criteria for value judgments, social welfare function, Pareto criterion, Kaldor-Hicks criterion, Bergson Criterion, Arrow's Impossibility Theorem.</p>

MICROECONOMICS – II

Sr. No.	Topic and details
1.	<p>Game theoretic approach:</p> <p>Basic concepts, Zero sum game, pure strategy – pay off matrix – Nash Equilibrium.</p>
2.	<p>Price output determination:</p> <p>Price-output determination under different market structures – Monopoly – price discrimination under monopoly – welfare aspects of monopoly – monopolistic competition – short run and long run equilibrium – excess capacity, Chamberlin’s approach – Oligopoly – Non-collusive models (Cournot, Bertrand, Edgeworth, Chamberlin, kinked demand curve and Stackelberg’s solution) Collusive Models (Cartels, Price Leadership).</p>
3.	<p>Alternative Theories of Firm:</p> <p>Critical evaluation of marginal analysis; Baumol’s Sales revenue maximization model – full cost pricing rule, Bain’s limit pricing – Sylos-Labini model.</p>
4.	<p>Markets for factor input:</p> <p>Factor pricing with perfect competition and imperfect competition in both the markets; Monopsony power and monopoly power, product exhaustion theorem.</p>
5.	<p>Market with asymmetric information: Markets for lemons, market signaling, moral hazards, principal agent problem.</p>
6.	<p>Choice under uncertainty:</p> <p>Describing risk – expected value, decision making under uncertainty, Neumann-Morgenstern Index, preferences towards risk – reducing risk-diversification-insurance. The demand for risky assets-the trade off between risk and return-mean variance model of asset choice.</p>

References:

- Arrow, K.J. and M.D. Intriligator (Eds) (1981), Handbook of Mathematical Economics, Vol, I North Holland, Amsterdam.
- Braodway, R.W. and N. Bruce (1984), Welfare Economics, Basil Blackwell , London.
- Da Costa, G.C. (1980) , Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
- Hall of India, New Delhi.
- Hansen, B. (1970), A Survey of General Equilibrium Systems, McGraw Hill New York.
- Henderson, J.M.and R.E. Quandt (1980), Microeconomic Theory:A Mathematical Approach, McGraw Hill, New Delhi.
- Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice
- Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.

- Kreps, David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
- Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory , McGraw Hill, New York.
- Pindyck Robert S. and Rubinfeld () , Microeconomics
- Salvatore D., Microeconomics
- Sen , A. (1999) , Microeconomics : Theory and Applications, Oxford University Press, New Delhi.
- Stigler, G. (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.
- Varian , H. (2000), Microeconomic Analysis, W.W. Norton , New York.

ECONOMICS OF GROWTH AND DEVELOPMENT-I

Sr. No.	Topic and Details
1	Basic Concepts: Economic growth and development- Measurement of Development-Indices of development- Inter country comparisons of development-Development Gap.
2	Economic Growth Models:- Neo- classical – Solow and Meade- Joan Robinson’s Growth Model-Hicks-Harrod-; learning by doing approach, Harrod- Domar Model, Technological progress- embodied and disembodied technical progress-Kaldor and Pasinetti- Two sector model – Endogenous growth.
3	Economic Growth Theories : Theories of growth and development : Circular Causation, Unlimited Supply of Labour, Ranis and Fei model, Big Push, Balanced and Unbalanced Growth, Critical Minimum Effort, Low Level Equilibrium Trap, Dualism
4	Theories of Development: Classical theory of development- contributions of Adam Smith, Ricardo, Malthus and James Mill, Karl Marx and development of capitalistic economy- theory of social change, surplus value and profit; Schumpeter and capitalistic development, innovation- role of credit, profit and degeneration of capitalism, Structural analysis of development.
5	Views of Development: Dr. Babasaheb Ambedkar -state socialism, - Mahatma Gandhi- Trusteeship; Amartya Sen- entitlements.

ECONOMICS OF GROWTH AND DEVELOPMENT-II

Sr. No.	Topic and Details
1.	Social ,Institutional and Infrastructure Aspects: Role of Infrastructure in economic development and its importance- Population as limits of growth and as ultimate source- Population , Poverty and Environment, Human Resource Development (HRD)- Development and Quality of Life- Education, Health, Nutrition Development and Underdevelopment - Perpetuation of Underdevelopment- Poverty, Absolute and Relative.
2	Sectoral Aspects of Development: Agriculture- Role of agriculture in economic development, Productivity in Agriculture, New technology and sustainable agriculture. Industry- Rationale and pattern of industrialization in developing countries, The choice of techniques and appropriate technology. Labour- Labour markets and their functioning in developing countries.
3	Trade and Economic Development: International trade as engine of growth- Prebisch, Singer and Myrdal thesis-Free vs. Protective trade- Export-led growth, Dual Gap analysis- Balance of Payments – Protective policies- WTO and developing countries.

4	<p>Macro Policies and Development: Monetary and fiscal policy- Foreign Direct Investment (FDI) – Multi-National Corporations (MNCs)- IMF and World Bank and Developing Countries.</p>
5	<p>Planning and Development: Role of planning – Types of planning – Review of Indian Plans.</p>

References:

- Adelman, I. (1961), Theories of Economic Growth and Development, Stanford University Press, Stanford.
- Barrell, R.G. Mason and M.O. Mahoney (2000), Productivity, Innovation and Economic Performance, Cambridge University Press, Cambridge.
- Barrow, R. and X. Sela – I, Martin, Economic Growth, McGraw Hill, New York.
- Behrman, S. and T.N. Srinivasan (1995), Handbook of Development Economics, Vol.3, Elsevier, Amsterdam.
- Bhagwati, J. and P. Desai (1970), India : Planning for Industrialization, Oxford University Press, London.
- Brahmananda, P.R. and C.N. Vakil (1956), Planning for an Expanding Economy, Vera and Co., Bombay.
- Brown, M. (1966), On the Theory and Measurement of Technical Change , Cambridge University Press, Cambridge, Mass.
- Campbell, N. and F. Burton (Eds.) (1994), Japanese Multinationals, Routledge, New York.
- Chakravarti, S. (1987), Development Planning : The Indian Experience, Clarendon Press, Oxford.
- Chakravarti, S. (1982), Alternative Approaches to the Theory of Economic Growth, Oxford University Press, New Delhi.
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development Economics, Vols. 1& 2, Elsevier, Amsterdam.
- Chenery, H.B.et.al. (Eds.) (1974), Redistribution with Growth, Oxford university Press, Oxford.
- Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- Dasgupta, P., A.K. Sen and S. Marglin (1972), Guidelines for Project Evaluation, UNIDO, Vienna.
- Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- Gillis, M., D.H. Perkins, M.Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W. Norton, New York.
- Gimmell, N. (1987), Surveys in Development Economics, Blackwell, Oxford.
- Grossman, G. and E. Helpman (1991), Innovation and Growth in the Global Economy, MIT Press , Cambridge, Mass.
- Gupta, S.B. (1988), Monetary Economics : Institutions, Theory and Policy, S. Chand and Co., New Delhi.
- Hayami, Y. (1997), Development Economics, Oxford University Press, New York.
- Hayami, Y. and M. Aloi (Eds.) (1998), The Institutional Foundations of East Asian Economic Development, Macmillan, London.
- Higgins, B. (1959), Economic Development, W.W.Norton, New York.
- Hirsch, A.O. (1958), The Strategy of Economic Development, Yale University Press, New York.
- Hogendorn, J. (1996), Economic Development, Addison, Wesley, New York.
- Jadhav, N. (1995), Monetary Economics for India, Macmillan, New Delhi.

- Kahkonon, S. and M. Olson (2000), A New Institutional Approach to Economic Development, Vistaar.
- Killick, T. (1995), IMF Programmes in M Developing Countries : Design and Impact, Routledge, London.
- Kindleberger, C.P.(1977), Economic Development, (3rd Edition), McGraw Hill, New York.
- Kuznets, Simon (1971), Economic Growth of Nations, Total Output and Production Structure, Harvard University Press, Cambridge, Mass.
- Lewis, W.A. (1955), The Theory of Economic Growth, George Allen and Unwin, London.
- Little, I.M.D. (1982), Economic Development : Theory and International Relations, Basic Books, New York.
- Mason, M. (1992), American Multinationals and Japan, Harvard University Press, Cambridge, Mass.
- Meadows, D.H. et. al. (1972), The Limits to Growth, Universe Books, New York.
- Mehrotra, S. and J. Richard (1998), Development with a Human Face, Oxford University Press, New Delhi.
- Meier, G.M. (1995), Leading Issues in Economic Development, (6th Edition), Oxford University Press, New Delhi.
- Meier, G.M. and D. Seers (Eds.)(1987), Pioneers in Development, Oxford University Press, New York.
- Mishan, E.J. (1975), Cost-Benefit Analysis, (2nd Edition), Allen and Unwin, London.
- Myint, H. (1971), Economic Theory and Underdevelopment Countries, Oxford University Press, New York.
- Myint, Hla (1965), The Economics Of Underdevelopment Countries, Preager , New York.
- Myrdal, G. (1957), Economic Theory and Underdeveloped Regions, Duckworth, London.
- Nayyar, D. (Ed) (1994), Industrial Growth and Stagnation, The Debate in India, Oxford University Press, New Delhi.
- Ranis, G. and A. Mahmood (1992), Political Economy for Development, Blackwell, Cambridge Mass.
- Schumpeter, J.A. (1949), The Theory of Economic Development, Harvard University Press, Cambridge, Mass.
- Sclow, R.M. (2000), Growth Theory : An Exposition, Oxford University Press, Oxford.
- Sen, A : (1992), Inequality Reexamined, Oxford University Press , Oxford.
- Sen, A.K. (Ed.)(1990), Growth Economics , Penguin, Harmondsworth.
- Taylor, L. (1979), Macro Models for Developing Countries, McGraw Hill, New York.
- Therberge, J.D. (Ed.) (1968), Economics of Trade and Development, John Wiley , New York.
- Thirlwal, A.P. (1974), Inflation, Saving and growth in Developing Economies, Macmillan, London.
- Thirwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- Todaro, M.P. (1971), Development Planning : Models and Methods, Oxford University Press, Oxford.
- Todaro, M.P. (1971), Development Planning : Models and Methods, Oxford University Press, Oxford.
- Todaro, M.P. (1996), (6th Edition), Economic Development, Longman, London.
- Todaro, M.P.(1971), Development Planning : Models and Methods, Oxford University Press, Oxford.
- United Nations (1994), Human Development Report, United Nations, New York.
- Weiss, J. (1988), Industry in Developing Countries, Croom Helm, London.
- World Bank (1993), East Asian Miracle, World Bank Report, Washington D.C.
- World Bank (1994), Infrastructure and Development, World Bank, Washington D.C.

MACROECONOMICS – I

Sr. No.	Topic and Details
1	<p>Macroeconomic variables:</p> <p>GDP-GNP-NNP- Potential output-Actual Output-Okun’s Law-Price Indices-Real income-Nominal income- Per capita income-Disposable income –Some key identities-National income accounts-Flow of funds accounts</p>
2	<p>Income Determination:</p> <p>Macro economic equilibrium-Simple Keynesian Model- - IS-LM Analysis-Impact of fiscal and monetary policies-Aggregate supply and Aggregate demand model</p>
3	<p>Consumption Function and Investment Function:</p> <p>Absolute income hypothesis-Relative income hypothesis –Permanent income hypothesis -Life Cycle hypothesis- Neo-classical and Keynesian approaches-MEC-Accelerator-Multiplier</p>
4	<p>Demand for Money:</p> <p>Cambridge approach-Keynesian approach-Friedman’s approach-Tobin’s portfolio approach-Tobin and Baumol’s approach to transactions demand for money-Patinkin’s real balance approach</p>
5	<p>Supply of money:</p> <p>Constituents of money supply-High-powered money-Money multiplier-RBI approach to supply of money</p>

MACROECONOMICS – II

Sr. No.	Topic and Details
1	<p>Rate of interest:</p> <p>Real and nominal rate of interest- Theories of interest rates –Classical- Neo-classical-Lonable Funds and liquidity Preference</p>
2	<p>Macroeconomics in Open economy:</p> <p>Balance of payments-Exchange rates regime-Mundell-Fleming model under fixed and flexible exchange rates- Exchange rates overshooting-Purchasing power and interest rate parities</p>
3	<p>Inflation: Classical, Keynesian and monetarist approaches to inflation-Structuralist approach to inflation-Philips’ curve analysis-Short run and long run Philips curve-Natural rate of unemployment-Tobin’s modified Philips’ curve-Policies to control inflation</p>

4	Business cycles: Theories of Schumpeter-Kaldor-Samuelson and Hicks-Goodwin's Model- Control of business cycles-Relative efficacy of monetary and fiscal policies
5	Macroeconomic policy Issues: Lags in the effects of policy, Automatic stabilizers, Targets, Indicators and instruments- Activist Policy- Gradualism versus shock therapy-Rules versus discretion- Role of Credibility- Dynamic Inconsistency Problem – Inflation targeting

References:

- Ackley, G. (1978); Macroeconomics : Theory and Policy , Macmillan, New York.
- Blackhouse, R. and A. Salansi (Eds.)(2000), Macroeconomics and the Real World (2Vols.), Oxford University Press, London.
- Branson, W.A. (1989), Macroeconomics Theory and Policy, (3rd Edition), Harper and Row, New York.
- Chakravarty, S.C. (1985), Report of the Committee to Review the Working of the Monetary System, Reserve Bank of India, Bombay.
- Culberston, J.M. (1958), Macroeconomic Theory and Stabilization Policy, McGraw Hill, Kogekosh, Tokyo.
- D'Souza, Errol: (2008); Macroeconomics; Pearson Education; Delhi.
- Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill. Inc., New York.
- Dornbusch, Rudiger. and Stanley Fischer and Startz Richard (2004). Macroeconomics, Tata McGraw-Hill (Chapter no 8)
- Duesenberry , J.S.(1949), Income, Saving and the Theory of Consumer Behaviour, Harvard University Press, Harvard.
- Edey, M.and A.T. Peacock (1967), National Income and Social Accounts, Hutchinson University Library, London .
- Friedman, M. (1956), Studies in the Quantity Theory of Money, The University of Chicago Press, Chicago.
- Friedman, M.(1957), The Theory of Consumption Function, Pinceton University Press, Princeton.
- Frisch, H. (1983), Theories of Inflation, Cambridge University Press, Cambridge.
- Gordon, R. and S.G. Harris (1998), Macroeconomics, Addison Wesley.
- Gordon, R.A. (1961), Business Fluctuations, Harper and Row.
- Gordon, R.A. and L.R. Klein (Eds.) (1965), Readings in Business Cycles, Irwin, Homewood.
- Gupta, S.B. (1995), Monetary Planning in India, Oxford University Press, New Delhi.
- Gurley, J. and E.S. Shaw (1960), Money in a Theory of Finance, Brooking Institution, Washington .
- Hagger, A.J. (1977) , Inflation : Theory and Policy, Macmillan , London.
- Hall, R.E. and J.B. Taylor (1986). Macroeconomics, W.W. Norton, New York.
- Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- Hicks, J.R. (1950), A Contribution to the Theory of Trade Cycles, Clarendon Press, Oxford.
- Hicks, J.R.(1974), The Crisis in Keynesian Economics, Oxford University Press, New Delhi.
- Hudson, J.(1982), Inflation : A Theoretical Survey and Synthesis, George Allen and Unwin, London.
- Jha, R. (1991), Contemporary Macroeconomic Theory and policy, Wiley Eastern Ltd., New Delhi.
- Jha, R. (1999), Contemporary Macroeconomic Theory and Policy, New Age International (P) Ltd., New Delhi.

- Keynes, J.M. (1936), The General Theory of Employment , Interest and Money, Macmillan London.
- Laidler, D.E.W. (1977), Demand for Money: Theory and Evidence, Dum-Don Valley, New York.
- Leijonhufvud, A. (1968), On Keynesian Economics and Economics of Keynes, Oxford University Press, London.
- Levacic, R. and A. Rebman (1986), Macroeconomics : An Introduction to Keynesian and Neo-classical Controversies, Macmillan , London.
- Lucas, R. (1981), Studies in Business Cycle Theory, M.I.T. Press, Cambridge Massachusetts.
- Mankiw , N.G. and D. Romer (Eds.) (1991), New Keynesian Economics, (2 Vols.) , MIT Press Cambridge.
- Mckinen, G.E. (1978), Money, The Price Level and Interest Rates, Prentice Hall of India, New Delhi.
- Mueller, M.G. (1966), Readings in Macroeconomics, Holt Rinehart and Winston, New York.
- Patinkin, D. (1965), Money, Interest and Prices, Harper and Row, New York.
- Powelson, J.P. (1960), National Income And Flow of Funds Analysis, McGraw Hill, New York.
- Rakshit, M.(1998), Studies in the Macroeconomics of Developing countries, Oxford University Press, New Delhi.
- Rao, V.K.R.V. (1983), India's National Income : 1950 to 1980, Sage Publications, New Delhi.
- Reddy, Y.V. (2000), A Review of Monetary and Financial Sector reforms in India- A Central Banker's Perspective, UBSPD, New Delhi.
- Romer, D.L.(1996) Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- Ruggles, R. and N. Ruggles(1956) , National Income Accounts and Income Analysis, McGraw Hill, New York.
- Scrafe B.L. (1977), Cycles, Growth and Inflation, McGraw Hill, New York.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publication, New Delhi.
- Sheffrin, S.M. (1996), Rational Expectations, Cambridge University Press, Cambridge.
- Surrey , M.J.C. (Ed.) (1976), Macroeconomic Themes, Oxford University Press, Oxford.
- Taylor, L.(1983), Structuralist macroeconomics, Basic Books, New Longman.
- Turnovsky, S.J.(1977), Macroeconomic Analysis and Stabilization Policy, Cambridge University Press, Cambridge.
- United Nations (1974), Year Book of National Account Statistics.

INDIAN ECONOMY- I

Sr. No.	Topic and Details
1.	Recent Trends in Important Macro Economic Variables: Population – GDP – SDP – Tax Revenue – Inflation – Regional Variations, Sectoral Composition of GDP – Regional Variations
2.	Demographic features: Age composition-Sex ratio-Population policy – Literacy – Sectoral pattern of employment
3.	Agricultural Sector: Land holding pattern – Land Reforms – Crop Pattern – Agricultural Labour – Technological change in agriculture – Agricultural cost and prices commission – impact of reforms.
4.	Industrial Sector: Industrial Policy – Private and public sector –Small scale industries – Disinvestment – Industrial growth.

INDIAN ECONOMY II

Sr. No.	Topic and Details
1.	Public Finance: Trends in revenue and expenditure – Centre-State financial relations – Recommendations of Finance Commissions – Fiscal Sector Reforms
2.	Infrastructure: Physical Infrastructure –Transport – Energy – Telecommunication – Public Utilities – Water, Electricity, Gas; Social Infrastructure – Health, Education, Social sectors.
3.	Money, Banking and Prices: Analysis of price behavior – Review of monetary policy in post reform period – reforms in banking sector – SEBI
4.	External Sector: Structure and direction of foreign trade – Foreign Direct Investment – Balance of Payments – Export-Import policy – Trade Reforms.
5.	Labour in Informal Sector: Trends in employment in informal sector – Agricultural Labour – Women Workers – Child Labour – Bonded Labour – Migrants.

References:

- Ahluwalia I.J. and I.M.D. Little (Eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press , New Delhi.
- Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford university Press, New Delhi.
- Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press , New Delhi.
- Bhagwati, J.N. and P. Desai (1970), India : Planning for Industrialization, Oxford University Press, London.
- Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy ; Intert-State Perspectives, Bookwell, Delhi.
- Chakravarty, S.(1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
- Chelliah, Raja J. (1996), Towards Sustainable Growth – Essays in Fiscal and Financial Sector Reforms in India, Oxford university Press, New Delhi.
- Dandekar, V.M. (1996), The Indian Economy 1947-92, Vol . II, Sage publications, New Delhi.
- Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi.
- Datt, R. (ED) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
- Datta, B. (1978), Economics of Industrialization, The Bookland, Calcutta.
- Dutt, R. and Sunderam (2008) Indian Economy, Chand Publishers, New Delhi
- Government of India , Economic Survey, (Annual), Ministry of Finance , New Delhi.
- Hanumantha Rao, C.H. and H. Linnemann (Eds.) (1996), Economic Reforms and Poverty Alleviation in India, Sage Publications, New Delhi.
- Haq, M. (1996), Reflections on Human Development, Oxford University Press , New Delhi.
- Jain, A.K. (1986), Economic Planning in India, Ashish Publishing House, New Delhi.
- Jalan , B. (1992), The Indian Economy – Problems and Prospects , Viking, New Delhi.
- Jalan, B. (1996), India's Economic Policy – Preparing for the Twenty First Century, Viking, New Delhi.
- Joshi P.C. (1975), Land Reforms in India, Allied Publishers Pvt. Ltd., New Delhi
- Joshi, V. and I.M.D. Little (1999), India : Macro Economics and Political Economy , 1964-1991, Oxford University Press, New Delhi.
- Mishra, S.K and Puri, V. K. (2008) Indian Economy, Himalaya Publishing House, Mumbai
- Mookherjee, D.(Ed.) (1997), Indian Industry : Policies and Performance, Oxford University Press, New Delhi.
- Narain, D. (1988), Studies on Indian Agriculture, Oxford University Press, New Delhi.
- Parikh, K.S. (1999) , India Development report – 1999-2000, Oxford University Press New Delhi.
- Rangarajan, C.(1998), Indian Economy : Essays on Money and Finance, UBS, New Delhi.
- Reserve Bank of India , Report on Currency and Finance, (Annual).
- Reserve Bank of India, Report on Currency and Finance (Annual).
- Sandesara, J.C. (1992), Industrial Policy and Planning , 1947-1991 ; Tendencies, Interpretations and Issues, Sage Publications, New Delhi.
- Sen, R.K. and B.Chatterjee (2001), Indian Economy ; Agenda for 21st Century (Essays in honour of Prof . P.R. Brahmananda), Deep & Deep Publications, New Delhi.
- Subramanian, S. (Ed.) (1997), Measurement of Inequality and Poverty, Oxford University Press, Calcutta.
- Thirlwall, A.P. (1994), Growth and Development, ELBS, Macmillan Press, London

- Thirwall, A.P. (1997), Economic Development in the Third World, Addison-Wesley, England.
- Tilak, J.B.C. (1993), Costs and Financing of Education in India : A Review of Issues , Problems and prospects (Mimeo), National Institute of Educational planning and Administration , New Delhi.
- United Nations Development Programme, (several years), Human Development Report, Oxford University Press , New Delhi.

INDUSTRIAL ECONOMICS - I

Sr. No.	Topic and Details
1.	Introduction: Nature and scope of industrial economics – Introduction to concepts : plant, firm, business house, industrial sector and industrial structure
2.	Theory of Firm: Organisational structure of a firm – Objectives of firms – Theories of growth of firms – Determinants of size and profitability - Types of costs: U-shaped and L-shaped – Cost curves – Depreciation – Price fixation – Administered prices.
3.	Investment Decisions: Methods of evaluating investment expenditure – Social Cost Benefit Analysis – Balancing private and social returns – Assessment of financial soundness – Ratio analysis.
4.	Industrial Organisation: Concepts and determinants of market structure, market conduct and market performance – Interrelationships among structure, conduct and performance – Factors affecting location and theories of location.

INDUSTRIAL ECONOMICS – II

Sr. No.	Topic and Details
1.	Industrial Policy and Growth: <ol style="list-style-type: none">Overview of industrial policy prior to 1991-Industrial policy resolution of 1991 and changes thereafterOverview of industrial development prior to 1991-Trends and pattern in industrial growth in post 1991 periodIndustrial sickness-Exit policy –Role of BIFRIndustrial concentration and remedial measuresProductivity and Capacity Utilisation.
2.	Industrial Finance: Nature and types of industrial finance, sources of institutional finance , Commercial Banks, Trends in institutional finance for industrial sector.
3.	Private and Public Sectors and Regional Development:

	<p>Role, Performance and Problems of Private and Public Sectors – Privatization and Disinvestment.</p> <p>Role of industrial policy for regional development-Trends and pattern of regional development.</p>
4.	<p>Impact of Globalisation:</p> <p>Trends and pattern of FDI in India-Trends and pattern of Indian industry abroad-M&A- Export and import component of Indian industrial sector.</p>
5.	<p>Problems and Prospects of Selected Industries:</p> <p>Iron and Steel - Cotton textiles- Jute- Sugar – Coal - Cement and engineering goods; Small-scale and cottage industries in India IT industry.</p>

References:

- Bagchi, A. and M. Banerjee (Eds.) (1979), Change and Choice in Indian Industry, Bagchi publications, Calcutta.
- Bain, J.S. (1996), Industrial Organization, Cheltenham, U.K.
 - Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd. , New Delhi
- Bhagwati J. and P. Desai (1972), India : Planning for Industrialization, Oxford University Press, London.
- Brahmananda, P.R. and V.R. Panchamukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
- Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
- Cherunilam, F. (1994), Industrial Economics : Indian Perspective, Himalaya Publishing House, Mumbai
- Das, N. (1969), The Public Sector in India, Vora and Company, Bombay.
- Dasgupta, P.S. Marglin and A. Sen (1972), Guideline for Project Evaluation, Unido Publications, New York.
- Datta, B. (1992), Indian Planning at the Crossroads, Oxford University Press, New Delhi.
- Dhameeja, N. and K.S. Sastry (1998), Privatization : Theory and Practice, A.H. Wheeler, New Delhi.
- Fog, B. (1959), Industrial Pricing Policies, North Holland, Amsterdam.
 - Gadgil
- Ghosh, P.K. (1977), Government and Industry, Oxford University Press, New Delhi.
- Gupta, L.C. (1996), The Changing Structure of Industrial Finance in India, Oxford University Press, New Delhi.
 - Hay, D. and Morris, D.J. (1979), Industrial Economics : Theory and Evidence, OUP, New Delhi
- Jalan, B. (1996), India's Economic Policy, Viking, New Delhi
- Joshi, V. and I.M.D. Little (1999), India : Macro Economics and Political Economy : 1964-1991, Oxford University Press, New Delhi.
- Kamien, M.T. and N.L. Schwartz (1982), Market Structure and Innovation, Cambridge University Press, Cambridge.
- Kelkar, V.L. and Rao, Bhanuji V.V. (eds), (1996), India development Policy Imperatives, Tata McGraw Hill, New Delhi
- Khan, M.Y. (1981), Indian Financial Systems, Allied Publishers, New Delhi.

- Koutsoyiannis, A. (1979), *Modern Microeconomics*, Macmillan, New York.
- Mamoria and Mamoria (2000), *Dynamics of Industrial Relations in India* (15th Edition) Himalaya Publishing House, Mumbai.
- Martin, S. (1989), Industrial Economics – Economic Analysis and Public Policy, Macmillan Publishing Co. New York.
 - Pandey, I.M. (), *Financial Management*,
- Rama Murti, R. and R. Verman (Eds.) (1991), Privatization and Control of State-owned Enterprises, The World Bank, Washington.
 - RBI, *Report on Currency and Finance* (Annual reports)
- Sandesara, J.C. (1992), Industrial policy and Planning- 1947-1991 : Tendencies, Interpretations and Issues, Sage Publications, India Pvt. Ltd., New Delhi.
- Sandesara, J.C.(1982), *Industrial Growth in India ; Performance and Prospects*, Lala Lajpat Rai College, Bombay.
- Sen, R. and B. Chatterjee (2001), Indian Economy : Agenda for the 21st Century (Essays in honour of professor P.R. Brahmananda), Deep and Deep Publications Pvt. Ltd., New Delhi.

LABOUR ECONOMICS – I

Sr. No.	Topic and details
1.	Supply of Labour: Concept of labour force and workforce-Determinants of labour force participation-Quality of labour-Concept of human capital-Supply of skilled and unskilled labour-Migration-types-causes-implications
2.	Demand for Labour: Factors influencing internal demand for labour-Short run and long run-Impact of technological change-International demand for labour-outsourcing
3.	Labour Market: Characteristics of labour in a developing economy-Paradigms of labour market analysis-classical-neo-classical-segmented-Methods of recruitment and placement-Employment service organization in India
4.	Employment-Unemployment: Relationship between employment and development-Employment and unemployment-concepts-types- measurement-trends-remedial measures
5.	Wages: Theories of wage determination-Concepts of wages-minimum-fair-living-Minimum Wages Act-Provisions and Implementation-Wage Differentials-Bonus-Profit sharing schemes-Wage Boards-Productivity

LABOUR ECONOMICS – II

Sr. No.	Topic and details
1.	Trade Unions: Theories of labour movement-Emergence and growth of trade unions in India-Achievements-problems-weaknesses-Challenges before trade union movement
2.	Industrial Relations: Industrial Disputes-Types-Causes-Trends-Prevention and settlement of industrial disputes-Tripartism-Labour participation in management-Collective bargaining
3.	Social security: Social security-Concept-evolution-Social security system in India-review-appraisal-new

	developments
4.	Labour Commissions: Review of labour commissions-Second National Commission on Labour-Terms of reference-context-major recommendations
5.	Special sections of workers: Women workers-child labour-agricultural workers-bonded labour-Extent- Urban informal workers-trends-wages-conditions of work-remedial measures
6.	International Issues: International Labour Organization (ILO)-structure-objectives-functions-International labour standards-India and ILO-Globalisation and Labour

References:

- Binswanger H.P. and M.R. Rosenzweig (Eds.) (1984), Contractual Arrangements, Employment, and Wages in Rural Labor Markets in Asia, Yale University Press, New Haven.
- Breman, J. (1996), Footloose Labour : Working in India's Informal Economy, Cambridge University Press, Cambridge.
-
- Das, N. (1960), Unemployment , Full Employment and India, Asia Publishing House, Bombay.
- Datt, G. (1996), Bargaining Power, Wages and Employment : An Analysis of Agricultural Labour Markets in India, Sage Publication, new Delhi.
- Deshpande L.K. and J.C. Sandesara, (Eds.) (1970), Wage Policy and Wages Determination in India, Bombay University Press, Bombay.
- Deshpande, L.K., P.R. Brahmananda, E.A.G. Robinson, (Eds.)(1983), Employment Policy in a Developing Economy, Vol.I & II Macmillan, London.
- Deshpande, S., G. Standing, and L.K. Deshpande, (1998), Labour Flexibility in a Third World Metropolis, Commonwealth Publishers, New Delhi.
-
- Foster, A.D., and M.R. Rosenberg, (1993), Information Flows and Discrimination in Labour Markets in Rural Areas in Developing Countries, Annual Conference on Development Economics, Work Bank, Washington D.C.
- Hajela, P.D. (1998), Labour Restructuring in India : A Critique of the New Economic Policies, Commonwealth Publishers, New Delhi.
- Hicks, J.R. (1932), The Theory of Wages, Clarendon Press, Oxford.
- Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000). The Unorganised Sector : Work Security and Social Protection, Sage Publications, New Delhi.
- Kannapon S. (1983), Employment Problems and Urban Labour Markets in Developing Countries, University of Michigan, Ann Arbor.
- Lester, R.A. (1964), Economics of Labour, (2nd Edition), Macmillan, New York.
- Madan, B.K. (1977), The Real Wages of Industrial Wokers in India, Management Development Institute, New Delhi.
- Mazumdar, D. (1989), Micra-economic Issues of Labour Markets in Developing Countries EDI Services Paper No 40, World Bank, Washington D.C.

- McConnell, C.R. and S.L. Brue (1986) , Contemporary Labour Economics, McGraw-Hill, New York.
- McCormick, B. and Smith (Eds.) (1968), The Labour Market, Penguin, Harmondsworth.
- MHRD, GOI (1987), Shram Shakti : Report of the National Commission on Self-employed Women and Women Workers in the Informal Sector, Ministry of Human Resources Development, New Delhi.
- Misra, L. (2000), Child Labour in India, Oxford University Press, New Delhi.
- Papola, T.S. and Rodgers, G. (Eds) (1992), Labour Institutions and Economic Development in India, International Institute for Labour Studies, Geneva.
- Papola, T.S. and Sharma, A.N. (Eds.) (1999), Gender and Employment in India, Vikas Publishing House, New Delhi.
- 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.
- Punekar, S.D. (1978), Labour Welfare, Trade Unionism and Industrial Relations, Himalaya Publishing House, Bombay.
- Rees, A. (1973), Economics of Work and Pay, Harper and Row, New York.
- Rosehberg M.R. (1988), Labour Markets in Low Income Countries in Chenery, H.B. and T.N. Srinivasan, (Eds.), The Handbook of Development Economics, North-Holland, New York.
- Sen, A.K. (1975), Employment, Technology, and Development, Oxford University Press, New Delhi.
- Sharma, A.N. and A. Kundu (Ed.) (2001), Informal Sector in India : Emerging Perspectives Institute for Human Development, New Delhi.
- Singh, V.B. (ED.) (1970), Industrial Labour in India, Popular Prakashan, Bomaby.
- Solow, R.M. (1990), Labour Market as an Institution, Blackwell, London.
- Venkata Ratnam, C.S. (2001), Globalization and Labour-Management Relations : Dynamics of Change, Sage Publication/ Response Books, New Delhi.

MATHEMATICAL ECONOMICS - I

Sr. No.	Topic and Details
1.	<p>Demand analysis:</p> <p>Ordinal utility maximization, Order conditions, nature of utility functions, ordinary and compensated demand functions, Rate of commodity substitution, Slutsky equation, cross effects, substitution and complements, Optimal quantity combination extended to 'N' number of goods, Weak and strong axioms of revealed preference and substitution effects, problems of choice involving risk, attitude towards risk, risk and insurance.</p>
2.	<p>Theory of production:</p> <p>Production functions, homogeneous and non-homogeneous, properties of Cobb-Douglas production function, CES production function, Elasticity of substitution, Linear production function, Derivation of short-run and long-run cost functions, constrained output maximization, cost minimization and profit maximization, equilibrium under joint product and constrained profit maximization with illustrations, Generalization to 'N' variables. Euler's theorem.</p>
3.	<p>Market equilibrium:</p> <p>Price determination of the firm and industry in short run and shut down point with illustrations, Equilibrium under taxation, Equilibrium under simple monopoly, monopoly equilibrium after lump sum tax and specific taxes levied, Equilibrium under price discrimination with illustrations, Equilibrium under multiple plant monopolists.</p>
4.	<p>Oligopoly and duopoly:</p> <p>Equilibrium under homogeneous product: Cournot solution and Stackelberg solution with illustrations, Differentiated oligopoly under market-sharing and kinked demand curve models, equilibrium under price leadership with problems illustrated, and the Nash bargaining solution under game theoretic solution.</p>
5.	<p>Multi-market equilibrium and Welfare economics:</p> <p>Equilibrium of the ith consumer, two commodity exchange using Edgeworth box, production and exchange: equilibrium of ith consumer and ith firm, Walras law and multi-market equilibrium, marginal conditions of Pareto optimality, the efficiency of perfect competition, imperfect competition in product and factor markets,</p>

MATHEMATICAL ECONOMICS - II

Sr. No.	Topic and Details
1.	<p>Differentiation and partial differentiation:</p> <p>Concept and different types of functions, Rules of derivatives for one variable case, logarithmic and exponential functions, interpretation of revenue, cost, demand and supply functions, elasticity and its types with illustrations, maxima and minima for one and several variables, profit maximization conditions of the firm under competitive conditions and monopoly, establishing the relationship among cost curves mathematically using derivatives with illustrations. Partial derivatives: Rules of partial and total differentiation, constrained optimization behavior of the firm and consumer using illustrations, Effects of taxation and subsidy on equilibrium price, quantity and output with illustrations.</p>
2.	<p>Integral calculus:</p> <p>Techniques of definite and indefinite integration, consumer's surplus and producer's surplus with illustrations using definite integrals Lorenz curve inequalities and Gini coefficients with illustrations, consumption functions, investment functions, cost functions obtained using integration, Area between two curves, applications to compute present value, discount value, compound interest.</p>
3.	<p>Differential equations and applications:</p> <p>Kinds of differential equations and their solutions, solution of differential equations of first order and first degree, linear differential equations of first order and second order, Applications of differential equation to multiplier, Harrod-Domar growth model and Neo-classical growth model of Solow.</p>
4.	<p>Matrix Algebra:</p> <p>Rules for addition, subtraction and multiplication of matrices, types of matrices, Rank of matrix, transpose of a matrix and its properties. Determinants: properties, evaluation by using properties, inverse of matrix, Gauss elimination and co-factor methods, applications to solve linear equations, Cramer's rule and its applications to solve equations.</p>
5.	<p>Income determination:</p> <p>Determination of national income under simple Keynesian model, consumption and investment functions, Static and dynamic multiplier, illustrations on income determination, Income determination under IS and LM model with illustrations, the derivation of IS and LM curves, Samuelson's multiplier-accelerator interaction model.</p>

References:

- Allen, R.G. D. (1976), Mathematical Economics, Macmillan, London.
- Arrow, K. J. and M. Intrilligator (Eds)(1982), handbook of Mathematical Economics, Vol. I,II and III, North Holland, Amsterdam.

- Baumol, W. J. (1984), Economic Theory and Operation Analysis, Prentice Hall, Englewood Cliffs, New Jersey.
- Chiang, A.C. (1986) Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
- Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
- Mehta and Mednani, "Mathematics for Economist, Sultan Chand & Sons, New Delhi
- Monga S.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
- Patra, S.C. (2008), Mathematical Techniques for Economic Analysis, Himalaya Publishing House, Mumbai.
- Vygodsky, G.S. (1971), Mathematical Handbook, Mir Publishers, Moscow.
- Yamne, Taro (1975), Mathematics for Economist, prentice Hall of India, New Delhi.

ECONOMETRICS - I

Sr. No.	Topic and Details
1.	<p>Two variable Linear Regression model:</p> <p>Concepts of population and Sample Regression functions, Assumptions of the method of least squares, OLS estimators of regression coefficients, properties, mean and variance of coefficients and the random term, Properties of BLUE and Gauss-Markov theorem, coefficient of determination.</p>
2.	<p>Classical Linear Regression model:</p> <p>The probability distribution of stochastic term U_i, its normality distribution, Method of maximum likelihood method, ML method of estimation of two variable regression model, Interval estimation and confidence interval for the least square estimators, testing the regression coefficients using t-test, Z-test, ANOVA and F-test and Standard error tests.</p>
3.	<p>Multiple regression analysis:</p> <p>Three variable linear regression models. OLS and ML estimation of partial regression coefficients, properties, and variance of OLS estimation, R^2 and adjusted R^2, Multiple and partial correlation coefficients, ANOVA for multi variable regression model.</p>
4.	<p>Multi-collinearity:</p> <p>The concept of multi-collinearity, perfect and imperfect collinearity, consequences and detection of multi-collinearity and illustrative examples.</p>
5.	<p>Hetero-scedasticity and Auto-correlation:</p> <p>Nature of Hetero-scedasticity, OLS estimation in the presence of Hetero-scedasticity, Method of OLS and Generalized least squares (OLS and GLS), consequences of using OLS in the presence of Hetero-scedasticity, determination of Hetero-scedasticity. Auto-correlation; Nature of the problem of Auto-correlation, OLS estimation, BLUE estimator, consequences, detecting Auto-correlation by using graphic method and Durbin-Watson tests, General test of Auto-correlation (GB).</p>

ECONOMETRICS –II

Sr. No.	Topic and Details
1.	<p>Linear Programming and Transportation Problems:</p> <p>Formulation of LPP of Minimization and maximization types, Generalization of LPP, Graphical solution to LPP of Minimization and maximization with and without mixed constraints, special</p>

	cases involving multiple solutions, unboundedness, infeasibility, the concept of degeneracy. Simplex method for solving of minimization and maximization, use of Big-M method for problems involving minimization, Duality in LPP, symmetry between primal and dual with mixed constraints, comparing the optimal solution of primal and dual problems, economic interpretation of dual, problem with unutilized resources, sensitivity analysis. Transportation problem: Statement of the problem, solution of transportation problem by simplex method, North-West corner rule, least cost method, VAM method.
2.	Input-out analysis: Open and closed input-output analyses, technology coefficient matrix for 'n' sectors and determination of equilibrium level of output by the inter-consistency model, the Hawkin-Simon conditions, Illustrative problems for two and three sector model with equilibrium price determination and value added method, coefficient matrix for closed model and dynamic input-output model.
3.	Game theory: Two person zero-sum game, pure and mixed strategy, game with and without saddle point, Nash equilibrium, constant and non-constant games, Game theory and duopoly problems, solution to games with mixed strategy: the algebraic method and graphical solution to obtain value of the game, illustrative examples, Solution of $M \times 2$ and $2 \times N$ games, solution of $M \times N$ games by formulating it as a LPP and finding solution to this.
4.	Probability and statistical methods: Classical and empirical definition of probability, laws of addition and multiplication and conditional probability, concept of random variable, probability and mass density functions, mathematical expectations, properties and problems involving Binominal distribution and normal distributions.
5.	Testing of hypothesis: Formulation of statistical hypothesis, Null and alternative hypothesis, Type-I and type II errors, hypothesis testing for small and large samples, students-t- distribution, Z-test, Chi-square test and standard error tests.

References:

- Allen, R.G. D. (1976), Mathematical Economics, Macmillan, London.
- Croxton, Crowden and Klein (1971), Applied General statistics, prentice Hall of India, New Delhi.
- Gujarati, D. N, Basic Econometrics, Tata McGraw-Hill Publishing Company Ltd, New Delhi.
- Gupta and Kapoor, "Mathematical statistics", Sultan Chand & Sons, New Delhi.
- Hadley, G. (1962) Linear Programming, Addison Wesley Publishing Co. Massachusetts.
- Johnston, J (1991) Econometric Methods, McGraw-Hill Book Co. London.
- Kothari, C. R. (1992). An Introduction to Operation Research, Vikas Publishing House, New Delhi.
- Koutsoyiannis, Econometrics, Macmillan press, London

- Mahur, P.N. and R, Bharadwaj (Eds), (1976) Economic Analysis in Input-output research, Input-output research Association of India, Pune.
- Mehta and Mednani, "Mathematics for Economist, Sultan Chand & Sons, New Delhi
- Miller, J (1996) Statistics for Advanced Level, Cambridge University Press, Cambridge.
- Nash, J. N. (1996), Essays on Game Theory, Cheltenham, UK.
- Patra, S.C. (2008), Mathematical Techniques for Economic Analysis, Himalaya Publishing House, Mumbai.
- Richard I. Levin and David S. Rubin, "Statistics for Management" Pearson Prentice Hall, New Delhi.
- Vygodsky, G.S. (1971), Mathematical Handbook, Mir Publishers, Moscow.

DEMOGRAPHY – I

Sr. No.	Topic and Details
1.	<p>Introduction and Sources of Population data:</p> <p>Meaning and Scope of Demography – Demography and other disciplines, Demographic data base – Sources of Population data - Population Census – Vital Registration – Sample Registration System and Large Scale Demographic Surveys – Contents and quality of Demographic data with Special Reference to India (Census and NFHS).</p>
2.	<p>Basic Concepts and Measures:</p> <p>Universe and Variables – Rates and Ratios – Proportion – Person years and life exposure - Simple, Compound and Exponential Growth Rates – Basic Demographic Equation.</p>
3.	<p>Population Size and Growth:</p> <p>Overview of the size and growth of world population - Regional Dimension – Indian Context - Kerala Model.</p>
4.	<p>Population Theories:</p> <p>Malthus, Marx, Optimum Population, Demographic Transition - Economic Theories – Leibenstein, Becker, Easternet – Population and Economic Development.</p>
5.	<p>Population Process :</p> <p>Basic Measures of Fertility – Period and Cohort Measures – Child Woman Ratio, Crude Birth Rate, General Fertility Rate, Age Specific Fertility Rate, Total Fertility Rate, Gross Reproduction Rate, Cohort Rates – Trends in Fertility in India,</p> <p>Basic Measures of Mortality - Crude Death Rate, Age Specific Death Rate, Infant Mortality Rates Life Tables, Standardization of Rates – Trends in Mortality and Infant mortality in India</p> <p>Nuptiality Analysis – Crude Marriage Rate, General Marriage Rate, Age Specific Marriage Rate, Mean Age at Marriage, Singulate Mean Age at Marriage – Indian Experience Population Projections – Algebraic Method, Component Method – Population Projections in India.</p>

DEMOGRAPHY – II

Sr. No.	Topic and Details
1	<p>Population Structure and Characteristics: Population Composition by age and sex, Age pyramids, Determinants of age and sex structure, Demographic effects of sex and age structure, economic and social implications – Population Sex Ratios and its variation,</p>

	Population ageing – Dependency load, India’s Population Structure and characteristics, changing pattern of sex ratios in India – factors responsible for declining sex ratio.
2.	Population Distribution and Urbanization: Geographic Distribution of the World Population – Urbanization – Growth and distribution of rural and urban population in developed and developing countries, level of urbanization and rate of urbanization – Urbanization in India, components of urban growth - deterrents and consequences of urbanization.
3.	Migration: Concept and Measurement, Migration as economic Process – Models of Migration –Lee, Saasjad and Todaro Migration in India.
4.	Fertility and Mortality Experience in India: Trends in Fertility, Mortality and Infant Mortality in India, Socio-economic and cultural determinants of Fertility, Mortality and Infant Mortality – empirical evidence.
5.	Population Policy in India: Evolution of Population Policies in India – The shift in population control to family welfare, to women empowerment: Family Planning Strategies and their outcomes : Reproductive Health, maternal nutrition and child health policies, population and strategies for human development of different social groups: Social impact of new reproductive technologies and their regulation – The New Population Policy, Tasks before the National Population Commission.

References:

- Berklay G.W. Technical Population Analysis
- Bhende Asha, kanitkar Tara (2001). Principles of Population Studies, Himalaya Publishing House.
- Birdsall N 1988 Economic Approaches to Population Growth and Development. In: Chenery H B and Srinivasan T N (eds.) Handbook of Development Economics. Elsevier Science Publications, Amsterdam
- Coale A.J. and E. M. Hoover
- Population 2007. New York. United Nations Population Fund.
- Shrrinivasan K.(1998) Basic Demographic techniques and Applications, Sage Publications.
- Simon, J. L (1992) . Population and Development in Poor countries, Princeton University Press, Princeton
- Sivaramkrishnan K.C. kundu Amitabh and Sing N. A handbook on Urbanisation in India. Oxford University Press
- Sryock, H et. Al (1973). The Methods and Materials of Demography, US Department of Commerce, Wasihngton, D.C.
- UNFPA. 2007. Urbanization: The Challenge and the Promise. State of World
- United Nations 1973 The Determinants and Consequences of Population Trends. Department of Economic and Social Affairs, Population Studies No. 50. 2 volumes. United Nations, New York, NY
- Weeks John R. Population
- www.censusindia.net

AGRICULTURAL ECONOMICS - I

Sr. No.	Topic and Details
1	Agriculture and Economic Development: Nature and Scope of agriculture economics, Role of agriculture in economic development, Interdependences between agriculture and Industry, Models of interaction between agriculture and rest of the economy.
2	Agriculture Production and productivity: Economics of agriculture production, Production function analysis in agriculture, Factor combinations and resource substitutions, Cost and supply curve , Size of farms and laws of returns- Theoretical and empirical findings, Farm budgeting and cost concepts, Supply response of individual crops and aggregate supply, Technical changes in agriculture.
3	Land Reforms and Land Policy: Land distribution- structure and trends; Land tenures and farming systems- Peasant, Capitalist. Collective and state farming, Tenancy and crop sharing- Forms, incidence and effects; Land reform measure and performance; Women and land reforms, Problems of marginal and small farmers.

AGRICULTURAL ECONOMICS –II

Sr. No.	Topic and Details
1	Agriculture Finance: Role of capital and rural credit; Organized and unorganized capital market; Saving and capital formation; Characteristics and sources of agricultural credit- Institutional and non institutional, Reorganization of agriculture credit- Co-operative, Commercial banks, Regional rural banks, Role of NABARD.
2	Agricultural Prices: Marketing and state policy; Regulated market, Marketed and marketable Surplus, Behavior of agricultural prices- Cobweb Model, Taxation and crop insurance; Term of trade between agriculture and non agriculture. Objectives of agricultural price policy- Instruments 15and evaluation.
3	Agricultural Growth in India: Recent trends in agricultural growth in India, Inter regional variations in growth of output and productivity; Cropping pattern shifts, Role of public investment and capital formation in Indian agriculture; Strategy of agricultural development and technological progress, Sustainable agriculture- indigenous practices, Bio technological practices and growth potential.
4	Agriculture and External Sector: International trade in agriculture commodities; Commodity agreements- Role of WTO, Issues in liberalization of domestic and international trace in agriculture- Nature and features of agri-business, Role of MNCs, Globalization of Indian economy and problems and prospects of Indian agriculture.

References:

- Appu, P.S. (1996), Land Performs in India, Vikas, New Delhi.
- Bardhan, P. (1984), Land, Labour and Rural Poverty, Oxford University Press, New Delhi.
- Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.
- Bhalla, G.S. (1994), Economic Liberalisation and Indian Agriculture, Institute for Studies in Industrial Development, New Delhi.

- Bhardwaj, K.(1974), Production Conditions in Indian Agriculture, Cambridge University Press, Cambridge.
- Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.
- Brahmanada,P.R., B.K. Narayan and A. Kalappa (Ed.) (1987), Dimensions of Rural Development in India, Himalaya Publishing House, New Delhi.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
- Chadha , G.K. and A.N. Sharma (1997), Growth, Employment and Poverty : Change and Continuity in Rural India, Vikas Publishing House, New Delhi.
- Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
- Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
- Chelliah, Raja J. and R. Sudarshan (1999), Income, Poverty and Beyond : Human Development in India, Social Science Press, New Delhi.
- Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi.
- Dantwala, M.L. et. al (1991), Indian Agricultural Development Since Independence , Oxford & IBH, New Delhi.
- Dantwala,M.L. (1960), Dilemmas of Growth : The Indian Experience, Sage Publications, New Delhi.
- Desai, G. and A. Vaidyanathan (Eds.) (1995), Strategic Issues in Future Growth of Fertilizer Use in India, Macmillan, New Delhi.
- Dhawan, B.D. (1988), Irrigation in India's Agricultural Development, Sage Publications , New Delhi.
- Ghatak, S. and K. Ingerscent (1984), Agriculture and Economic Development, Select books, New Delhi.
- Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
- Government of India, Economic Survey (Annual), New Delhi.
- Government of India, Five Year Plans, New Delhi.
- Gulati, A. and T. Kelly (1999), Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi.
- Haque, T. and A.S. Sirohi (1986), Agrarian Reforms and Institutional Changes in India, Concept Publishing Company, Delhi.
- Jodhar N. (Ed.) (1996), Challenges to Indian Banking, Mcmillan, New Delhi.
- Joshi, P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publishers, Bombay.
- Kahlon, A.S.and Tyagi D.S. (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.
- Kaur, R. (1975), Agricultural Price Policy in Economic Development, Kalyani Publishers, Delhi.
- Kausro, A.M. (1973), The Economics of Land Reforms and Farm Size in India, Macmillan, New Delhi.
- Meier, G.M. (1995), Leading Issues in Economic Development, Oxford University Press, New Delhi.
- Mitra, A. (1977), Terms of Trade and Class Relations, Frank Cass Co. Ltd., London.
- Papola, T.S. (1982), Rural Industrialisation in India, Himalaya Publishing House, Bomay.
- Raghvan and L. Sarkar (Eds.) (1996), Poverty and Employment, New Age, New Delhi.
- Raj, K. N. et. al. (1988), Essays in the Commercialisation of Indian Agriculture, Oxford University Press, New Delhi.
- Raj, K.N. et. al (1988), Essays in the Commercialization of India Agriculture, Oxford University Press, New Delhi.
- Rao C.H. Hanumantha (1975), Technological Change and Distribution of Gains from Agriculture, Macmillan, New Delhi.

- Rao, C.H. Hanumantha (1994), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
- Reserve Bank of India (1989), Report of the Agricultural Credit Review Committee, Bombay.
- Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
- Rudra, A. (1982), Indian Agricultural Economics : Myths and Reality, Allied Publishers, New Delhi.
- Saini, G.R. (1979), Farm Size, Resource Use Efficiency and income Distribution, Allied Publishers, New Delhi.
- Soni, R.N. (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
- Subbarao, K. and De Janvry (1986), Agricultural Price Policy and Income Distribution in India, Oxford University Press, New Delhi.
- Thamarajakshi, R. (1994), Intersectoral Relationship in a Developing Economy. Academic Foundation, Delhi.
- Uppai, J.S. (Ed.) (1987), India's Economic Problem – An Analytical Approach, Tata McGraw Hill, New Delhi.
- Vaidyanathan, A. (1995), The Indian Economy : Crisis, Response and Prospects, Orient Longmans, New Delhi.
- Visaria, P. and R. Basant (1994), Non-Agricultural Employment in India : Trends and Prospects, Sage Publications, New Delhi.
- Wanmali S. and C. Ramasamy (Eds.) (1995), Developing Rural Infrastructure, Macmillan New Delhi.

ECONOMICS OF GENDER AND DEVELOPMENT - I

Sr. No.	Topic and Details
1.	<p>Introduction to Gender Studies: Importance and concepts of women studies – Women in patriarchal and matriarchal societies and structures, patrilineal and matrilineal systems and relevance to present day society in India; Economic basis and functioning of patriarchy in development and LDCs, particularly India; Gender bias in the theories of value, distribution, and population.</p>
2.	<p>Demographic Aspects: Demography of female population; Age structure, mortality rates, and sex ratio – Causes of declining sex ratios and fertility rates in LDCs and particularly India – Theories and measurement of fertility and its control; Women and their access to nutrition, health, education, and social and community resources, and their impact on female mortality and fertility, economic status, and in work participation rate.</p>
3.	<p>Women in Decision Making: Factor affecting decision making by women; property right, access to and control over economic resources, assets; Power of decision making at household, class, community level; Economic status of women and its effect on work-participation rate, income level, health, and education in developing countries and India; Role of kinship in allocating domestic and social resources. Micro Finance.</p>
4.	<p>Conceptualization of Women's Work: Concept and analysis of women's work; Valuation of production and unproductive work; visible and invisible work; paid and unpaid work; economically productive and socially productive work – economic status, private property, and participation of women in pre-industrial and industrial societies – Female contribution to National Income.</p>

ECONOMICS OF GENDER AND DEVELOPMENT - II

Sr. No.	Topic and Details
1.	<p>Women and Labour Markets: Factors affecting female entry in labour markets; Supply and demand for female labour in developed and developing countries, particularly India; Studies of female work participation in agriculture, Non-agricultural rural activities, informal sector, cottage and small scale industries, organized industry, and services sector; Wage differentials in female activities; Determinants of Wage differentials; gender, education, skill productivity, efficiency, opportunity; Structures of wages across regions and economic sectors.</p>
2.	<p>Women, Technology and Environment: Impact of technological development and modernization on women's work participation in general and in various sectors such as agriculture, non-agriculture rural activities, small and cottage industries and organized industry – Female activities and ecological and environmental concerns; the two way relationship – Role of new technologies for helping women – Provision of information and training for simple harvesting of economics services.</p>

3.	<p>Social Security and Social Protection for Women:</p> <p>Social security of women, entitlements, ensuring economic independence and risk coverage, access to credit and insurance markets; Role of voluntary organizations, self help groups in providing social security; Labour market biases and gender discrimination; effectiveness of collective bargaining; Review of legislation for women's entitlements, protection of property right, social security – Schemes for safety net for women; Need for female labour unions; affirmative action for women and improvement in their economic and social status.</p>
4.	<p>Gender Planning, Developing Policies and Government:</p> <p>Gender and development indices; Mainstreaming gender into development policies; Gender planning techniques; Gender sensitive governance; Paradigm shifts from women's well being to women's empowerment; Democratic decentralization (Panchayats) and women's empowerment in India. Gender Budgeting.</p>

References:

- Agarwal , B. (1994), A Field of One's Own : Gender and Land Rights in South Asia, Cambridge University Press, Cambridge.
- Agarwal, B. (1986), Cold Hearths and Barren Slopes; The Wood Fuel Crisis in the Third World, Allied Publishers, Delhi.
- Agnihotri, S.B. (2000), Sex ratio in Indian Population: A Fresh Exploration , Sage publications, New Delhi.
- Ahmed, I. (Ed.) (1985), Technology and Rural Women : Conceptual and Empirical Issues, George Allen & Unwin, London.
- Amsden, A.H. (Ed.) (1980), The Economics of Women and Work, Penguin, Harmondsworth.
- Baud, I.S.A. (1992), Forms of Production and Women's Labour : Gender Aspects of Industrialization in India and Mexico, Sage Publications, New Delhi.
- Boserup E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
- Buvinic M. and M.A. Lycette (1989), 'Women, Poverty and Development in the Third World' in Lewis J.P. (Ed.), Strengthening the Poor : What Have We Learnt, OECD.
- Carr, M., C. Martha and R. Jhabvala (Eds.) (1997). Speaking Out : Women's Economic Empowerment in South Asia, Vistaar Publications, New Delhi.
- Custers, P. (1997), Capital Accumulation and Women's Labour in Asian Economies, Vistaar, New Delhi.
- Dantwala, M.L., H. Sethi and P. Visaria (1998), Social Change Through Voluntary Action, Sage Publications, New Delhi.
- Desai, N. and M.K. Raj. (Eds.) (1979), Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay.
- Dwyer, D. and J. Bruce (Eds.) (1988), A Home Divided : Women and Income in the Third World, Standford University Press, Stanford.
- Engles, F. (1985), The Origin of the Family, Private Property and the State, Progress Publications, Moscow.
- Evans, H. and C. Ungerson, (Eds.) (1983), Sexual Divisions, Patterns and Processes, Tavistock, London.

- Government of India (1974), Towards Equality – Report of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
- Gulati, S.C. (1988), Fertility in India : An Econometric Analysis of a Metropolis, Sage Publications, New Delhi.
- Gupta, J.A. (2000), New Reproductive Technologies, Women’s Health and Autonomy, Indo Dutch Studies on Development Alternatives, Sage Publication, New Delhi.
- ILO (1978), Women’s Participation in the Economic Activity of Asian Countries, ILO, Geneva.
- International Rice Research Institute (1983), Women in Rice Farming Systems, I.R.R.E. Press, Manila.
- Jain, D. and N. Banerjee (1985), Tyranny of the Household, Vikas Publishing House, New Delhi.
- Jhabwala, R. and R.K. Subramanya (2000) (Eds), The Unorganized Sector : Work Security and Social Protection, Sage Publications, New Delhi.
- Kabeer, N. (1994), Reversed Realities : Gender Hierarchies in Development Thought, Kali for Women, New Delhi.
- Kabeer, N. and R. Subrahmaniam (Eds.) (1999), Institutions, Relations and Outcomes, Kali for Women, New Delhi.
- Kalpagam, U. (1994), Labour and Gender : Survival in Urban India, Sage Publications, New Delhi.
- King M. and M.A. Hill (Eds.) (1993), Women’s Education in Developing Countries: Barriers, Benefits and Politics, John Hopkins, Baltimore.
- Krishnaraj , M., R.M. Sudarshan and A. Shariff (1999), Gender, Population and Development , Oxford University Press, New Delhi.
- Kuhn, A. and A.N. Wolpe (Eds.), (1978) Feminism and Materialism, Routledge and Kegan Paul, London.
- Mazumdar, V. (1979). Symbols of Power : Studies on the Political Status of Women in India, Allied Delhi.
- Mies, M. (1986/1998), Patriarchy and Accumulation on a World Scale : Women in the International Division of Labour, Zed books, London.
- Mishra S. (2000), Voluntary Action in Health and Populatin : The Dynamics of Social Transition, Sage Publications, New Delhi.
- Mitra, A. (1979), Implications of Declining Sex Ratio in India’s Population, Allied, New Delhi.
- MNRD, GOI (1987), Shram Shakti : Report of the National Commission on Self – employed Women and Women Workers in the Informal Sector, Ministry of Human Resources Development, New Delhi.
- Narasimhan, S. (1999), Empowering Women : An Alternative Strategy from Rural India, Sage Publications, New Delhi.
- Papola, T.S. and A.N. Sharma (Eds.) (1999), Gender and Employment in India, Vikas Publishing House, New Delhi.
- Purushothaman, S. (1998). The Empowerment of Women in India : Grassroots Women’s Networks and the State, Sage Publications, New Delhi.
- Redcliff, N. and E. Mingione, (Eds.), (1985), Beyond Employment : Household, Gender and Subsistence, Basil Blackwell, Oxford.
- Schultz. T.P. (1988), ‘Education Investment and Returns’ in Chenery, H.B. and T.N. Srinivasan, The Handbook of Development Economies, North Holland, New York.
- Sen, A.K.(1990), ‘Gender and cooperative Conflicts’ in Tinker (Ed), Persistent Inequalities : Women and World Development, Oxford University Press, New York.
- Sen. G. and K. Brown (1985/1987), Development , Crises and Alternate Visions, Monthly Review Press, New York.

- Seth, M. (2000), Women and Development : The Indian Experience, Sage Publications, New Delhi.
- Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage Publications, New Delhi.
- Srinivasan K. and A. Shroff (1998), India : Towards Population and Development Goals, Oxford University Press, New Delhi.
- Venkateswaran, S. (1995), Environment, Development and Gender Gap; Sage Publications, New Delhi.
- Wazir, R, (2000), The Gender Gap in Basic Education : NGOs as change Agents, Sage Publications, New Delhi.
- Young, K., et. al. (Eds.) (1987), Serving Two Masters, Routledge & Kegan Paul, London.

FINANCIAL INSTITUTION AND MARKETS – I

Sr. No.	Topic and Details
1	<p>Nature and Role of Financial System : Money and finance – Money and near-money – Financial intermediation and financial intermediaries – The structure of the financial system – Functions of the financial sector – Indicators of financial development – Equilibrium in Financial Markets – Financial System and Economic Development – Criteria to evaluate assets; Risk and financial assets, types of risk, return on assets, Risk – Return trade off – Valuation of Securities.</p>
2	<p>Structure of Interest Rates: Theories of interest rate determination – Level of interest rates – Long period and Short period rates – Term Structure of Interest rates – Spread between lending and deposit rates Administered interest rates – Appropriate interest rate policy</p>
3	<p>The Central Bank, Commercial Banks and Monetary Policy: Function of Central Bank – The aims and objectives of the monetary policy in developed and developing countries – Instruments of monetary policy – Proliferation of banking and non-bank financial intermediaries – Effectiveness of monetary policy Credit creation and its control; Profitability and efficiency of banks; Development banks – role and functions; Investment banking and merchant banking; Financial sector reforms in India.</p>

FINANCIAL INSTITUTION AND MARKETS – II

Sr. No.	Topic and Details
1	<p>Non-bank Financial Intermediaries: Definition and types of non-bank financial institutions; Their growth and impact on India's economic development, Measures taken to control their operations.</p>
2	<p>Financial Markets: Role and Structure of money market and capital market – Call money market, Treasury bill market, Commercial bill market including commercial paper and certificate of deposits, Discount market – Government securities market – Markets for derivatives : futures and options, and other derivatives: types, uses and pricing of derivatives – Primary and secondary market for securities; SEBI : its impact on the working of capital market in India, IRDA and its role in financial markets.</p>

3	<p>International Financial Markets: Nature, organization and participants – Exchange rates – devaluation, and depreciation – Working of floating exchange rates since 1973 – Risk hedging and futures in exchange rates – International Financial Flows, forms and volume – Rise and fall of Brettonwood Institutions - International Liquidity – Post Maastricht developments – Reforms in International monetary system for developing countries – Lending operation of World bank and its affiliates – Working of IDA and IFC. The Theory of optimum currency areas – Growth of Regional financial institutions. Asian Development bank and its lending activities; Asian Development Bank and India. Euro-dollar and Euro-Currency markets : their developmental role and regulation at the International level.</p>
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References:

- Bhatt, R.S. (1996), Unit Trust of India and Mutual Funds : A Study, UTI Institute of Capital Markets, Mumbai.
- Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
- Bhole, L.M. (2000), Indian Financial System, Chaug Publications, Allahabad.
- Bishop, P. and D. Dixon (1992), Foreign Exchange Handbook, McGraw Hill, New York.
- Brahmananda, P.R. (1982), IMF Loan and India's Economic Future, Himalaya Publishing House, Bombay.
- Chaandler, L.V., and S.M. Goldfeld (1977), The Economics of Money and Banking, Harper & Row, New York.
- Chamberlain, G. (1981), Trading in Options, Woodhed – Faulker, Cambridge.
- Chandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.
- Crocker, A. (1992), International Money : Issues and Analysis, The English Language Book Society, Nelson, London.
- Edminster, R.O. (1986), Financial Institutions, Markets and Management, McGraw Hill, New York.
- Farrell, J.L. (1997), Portfolio Management, (2nd Edition), McGraw Hill, New York.
- Fenstermaker, J.V. (1969), Readings in Financial Markets and Institutions, Appleton, New York.
- Fisher, G.E. and R.J.Jorden (1992), Security Analysis and Portfolio Management, Eastern Economy Edition, New Delhi.
- Goldsmith, R.W.(1969), Financial Structure and Development, Yale, Londo.
- Goss, B.A. and B.S. Yamey (1978), The Economics of Futures Trading, Macmillan, London.
- Gupta, L.C. (Ed) (1999), India's Financial Markets and Institutions, Society for Capital Research and Development, Delhi.
- Gupta, S.B. (1983), Monetary Economics, S. Chand & Company, New Delhi.
- Hanson, J.A.and S. Kathuria (Eds.),(1999), India : A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi.
- Harker, P.T. and S.A. Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.
- Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York.
- Khan, M.Y. (1996), Indian Financial System, Tata McGraw Hill, New Delhi.
- Kindleberger, C.P.(1996), A History of Financial Crisis, Manias, Panics and Crashes, John Wiley & Sons, New York.
- Machiraju, H.R. (1997), International Financial Markets in India, Wheeler Publishing, Allahabad.
- Machiraju, M.R. (1999), Indian Financial Systems, Vikas Publishing House, New Delhi.

- Mackinnon, R.J. (1979), Money in International Exchange, Oxford University Press, Oxford.
- Niehans, J. (1984), International Monetary Economics, John Hopkins University Press, New York.
- Ohlson, J.A. (1987), The Theory of Financial Markets and Institution, North Holland, Amsterdam.
- Prasad, K.N. (2001), Development of India's Financial System, Sarup & Sons, New Delhi.
- R.B.I. (1985), Report of The Committee to Review the Working of the Monetary System (Chakravarty Committee), Bombay.
- R.B.I. (1995), Report of the Working Group on Foreign Exchange Market in the India, (Sodhani Group), Mumbai.
- Rangaranjan, C. (1999), Indian Economics : Essays on Money and Finance, UBS Publication, New Delhi.
- RBI (1983), Functions and Working of RBI.
- Redseth, A. (2000), Open Economy Macroeconomics, Cambridge University Press, Cambridge.
- Robinson, R.I. and D. Wrightman (1981), Financial Markets, McGraw Hill, London .
- Sahadeven, K.G. and M.T. Thiripalraju (1997), Mutual Funds, Prentice Hall of India, New Delhi.
- Sayers, R.S. (1967), Modern Banking, Oxford University Press, New Delhi.
- Shaw, E.S. (1993), Financial Deepening in Economic Development, Oxford University Press, London.
- Smith, P.F. (1978), Money and Financial Intermediation : The Theory and Structure of Financial System, Prentice Hall, Englewood-Cliffs, New Jersey.
- Verma, J.S. (1989), A Manual of Merchant Banking, Bharat Law House, New Delhi.
- Weller P. (1992), The Theory of Future Markets, Blackwell, Oxford.
- Yeager, L.B. (1976), International Monetary Relations : Theory, History and Policy, Harper and Row, New York.

ECONOMICS OF INFRASTRUCTURE - I

Sr. No	Topic and Details
1.	<p>Introduction:</p> <p>Infrastructure and Economic Development- Infrastructure as a public good: Physical and Social Infrastructure: Rationale of State intervention- Special characteristics of public utilities- Pricing of public utilities, Marginal cost pricing vs. other methods of pricing in public utilities, Peak load and off load problem- Peak load pricing and Two part tariff, Economies of scale of Joint supply, Cross subsidization- Equity and efficiency.</p>
2.	<p>Transport Economics:</p> <p>Characteristics of demand and supply-The structure of Transport Costs. Demand for Transport. Models of Freight and Passenger Demand. Model choice; Cost Functions in the Transport Sector. Principle of Pricing. Special Problems of Individuals Modes of Transport; Inter-modal condition in the Indian Situation-Location of Economic Activities.</p>
3.	<p>Communications:</p> <p>Characteristics and problems of f Postal Services- Criteria for Fixation of Postal Rates – Telecommunication- Rate-making in Telephone Utilities. Principles of Decreasing Costs in Telephone Industry. . Measurement of Standards of Services in Telephone and Postal Utilities- Optimal telecom Tariffs.</p>
4.	<p>Energy Economics:</p> <p>Primacy of Energy in the Process of Economic Development, Factors Determining Demand for Energy; Effects of Energy Shortages. Energy Conservation, Renewable and Non-conventional Sources of Energy. Efficient Energy options- The search for an Optimal Energy Policy in the Indian Context.</p>

ECONOMICS OF INFRASTRUCTURE - II

Sr. No.	Topic and Details
1	<p>Electricity, Gas, and Water supply:</p> <p>Bulk Supply and pricing of Electricity. The Relative Economics of Thermal, Hydel and Nuclear Power Plants. The Case for a National Power Grid. Financing Water Utilities. Urban and Rural Water Supply-The concept of user charge, The Exploitation of Natural Gas. Pricing Problems.</p>
2.	<p>Social Infrastructure:</p> <p>Approaches to social infrastructure- Human resource development and human development: differences and linkages. Organization And Financing of supply of Social Services. Private vs. Public Sector Financing; Recent debate about the fixation of prices of social services.</p>

	Development of social services in the successive Indian Plans.
3.	<p>Economics of Education:</p> <p>Special characteristics of education, Education and Economic Growth. Approaches to Educational Planning, Social Demand, Rate of Return –Private and social rates of return and Manpower Balance Approaches. The Case for Universal, Free, Primary Education; Structure of higher education and problems of its financing in India; Human Resources and Human Capital Development. The issues in education policy</p>
4.	<p>Economics of Health:</p> <p>Special characteristics of health, Health dimensions of development; Determinants of Health – Poverty, malnutrition, illiteracy and lack of information; Economic dimensions of health care – Demand and supply of health care ; Financing of health care and resource constraints; Disease burden and its measurement- Planning of health care in India, Inequalities in health – class and gender perspectives; Institutional issues in health care delivery.</p>

References:

- Baru, R.V. (1998), Private Health Care in India : Social Characteristics and Trends, Sage Publications, New Delhi.
- Becker, G.S. (1974), Human Capital (2nd Edition), National Bureau of Economic Research, New York.
- Berman, P. and M.E. Khan (1993), Paying for India's Health Care, Sage Publications, New Delhi.
- Crew, M.A. and P.R. kleindorfer (1979), Public Utility Economics, Macmillan, London.
- Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure, Vol. VI, New Delhi.
- McMohan, w.w. (1991). Education and Development : Measuring the Social Benefits, oxford University Press, Oxford.
- National Council of Applied Economic Research (NCAER), (1996), India Infrastructure Report : Policy Implications for Growth and Welfare, NCAER, New Delhi.
- Nelson, J.R. (1964), Marginal Cost Pricing in Practice, Prentice-Hall, Englewood-Cliff.
- Padmanabhan, C.B. (1984), Financial Management in Education, Select Books, New Delhi.
- Panchamukhi, P.R. (1980), Economics of Health : A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied, Delhi.
- Parikh, K.S. (Ed.) India Development Report Several years, Oxford, New Delhi.
- Phillips A. and O.E. Williamson (Eds.) (1967), Prices : Issues in Theory, Practice and Public Policy, University of Pennsylvania Press, Philadelphia.
- Tata Energy Research Institute (1995), Environmental Considerations and options in Managing India's Long-term Energy Strategy, Mumbai.
- Tilak, J.B.G. (1994), Educational for Development in Asia, Sage Publications, New Delhi.
- Vaizey, J. (1962), Economics of Education, Faber and Faber, London.
- Woodhall, M.(1992), Cost Benefit Analysis in Educational Planning, UNESCO, Paris.
- World Bank (1993), The World Development Report, 1993 : Investing in Health. Oxford University Press, New York

PUBLIC ECONOMICS –I

Se. No.	Topic and details
1	<p>Introduction: Nature and Scope of Public Economics- Role of Government in organized society; Changing perspective – government in mixed economy,; Public and private sector; Cooperation or completion; Government as an agent for economic planning and development; Government s a tool for operationalizing the planning process; private ,public and merit goods; Market failure-impersonal, decreasing costs; externalities, public goods. Uncertainty and non existence of future markets; Informational asymmetry.</p>
2	<p>Public Choice: Private and public mechanism for allocating resources; Problems for allocating resource; Voting systems; Arrow impossibility theorem; An economic theory if democracy; Politico-eco-bureaucracy; Rent seeking and directly unproductive profit seeking (DUP) activities. Stabilization Policy- Keynesian case for stabilization policy; Social goals; Poverty alleviation; Provision of infrastructural facilities, removing distributional inequalities and regional imbalances.</p>
3	<p>Public expenditure: Wagner’s Law of increasing state activities; Wiesman-Peacock hypothesis; Pure theory of public expenditure; Structure and growth of public expenditure; Criteria for public investment; Social Cost-benefit analysis – Project evaluation, Estimation of costs, discount rate, Reforms in expenditure budgeting sand Zero base budgeting.</p>
4	<p>Taxation: Theory of incidence; Alternative concepts of incidence- Allocative and equity aspects on individual taxes; Benefit and ability to pay approaches; Theory of optimal taxation; Excess burden of taxes; Trade off between equity and efficiency; Theory of measurement of dead weight losses.</p>

PUBLIC ECONOMICS – II

Se. No.	Topic and details
1	<p>Public Debt: Classical view of public debt; Compensatory aspect of debt policy; Burden of public debt; Sources of public debt; Debt through created money; Public borrowings and price level; Crowing out of private investment and activity; principle of debt management and repayment.</p>
2	<p>Fiscal Policy: Objectives of fiscal policy- full employment; anti-inflation, economic growth, redistribution of income and wealth; Interdependence of fiscal and monetary policies; Budgetary deficits and its implications; fiscal policy for stabilization- automatic vs. discretionary stabilization; Alternative measures of resource mobilization and their impact on growth, distribution and prices.</p>
3	<p>Fiscal Federalism: Principles of multi-unit finance; Fiscal federalism in India; Vertical and Horizontal imbalance; Assignment of function and sources of revenue; constitutional provision; Finance Commission and Planning Commission; Criteria for transfer of resources and grant ; Centre- State financial relation in India; Problems of states’ resources and indebtedness; Transfer of resources from Union and States to local bodies.</p>
4	<p>Indian Public Finances: Indian tax system; Revenue of the Union, States and local bodies; Direct and Indirect taxes, Taxation of agriculture, expenditure tax, reforms in direct and indirect taxes, taxes on services; Non tax revenue of Centre, State and local bodies; Analysis of Central and State government budgets; Shrinking size of development finance through budgets; Trends in public expenditure</p>

References:

- American Economic Association (1955), Readings in Fiscal Policy, George Allen and Unwin, London.
- Atkinson, A.B. and J.E. Siglitz (1980), Lectures on Public Economics, Tata McGraw Hill, New York.
- Auerbach, A.J. and M. Feldstern. (Eds.) (1985), Handbook of Public Economics, Vol.I, North Holland, Amsterdam.
- Barman, K. (1986), Public Debt Management in India, Uppal Publishing House, New Delhi.
- Bhargava, P.K. (1976), Taxation of Agriculture in India, Vora and Co., Bombay.
- Bhargava, P.K. (1982), Centre State Resource Transfers in India, The Academic Press, Gurgaon.
- Bhargava, P.K. (1984), Some Aspects of Indian Public Finances, Uppal Publishing House, New Delhi.
- Bhargava, P.K. (1991), India's Fiscal Crisis, Ashish Publishing House, New Delhi
- Bhargava, R.N. (1967), The Theory and Working of Union Finance in India, Chaitanya Publishing House, Allahabad.
- Bhargava, R.N. (1969), Indian Public Finances, B.D. Bhargava and Sons, Chandausi.
- Bird, R. and O. Oldman (1967), Readings on Taxation in Developing Countries, the John Hopkins University Press, Baltimore.
- Borkar, V.V. (1971), Income Tax Refore in India, Popular Prakashan, Bombay.
- Buchanan, J.M. (1970), The Public Finances, Richard D. Irwin, Homewood.
- Buchanan, J.M.(1958), Public Principles of Public Debt, A Defence and Restatement, Richard D. Irwin Homewood.
- Buchanan, J.M.(1968), The Demand and Supply of Public Goods, Rand McNally, Chicago.
- Chelliah, R.J. (Ed)(1997), Towards Sustainable Growth, Oxford University Press, New Delhi.
- Chelliah, Raja J. (1971), Fiscal Policy in Underdeveloped Countries, George Allen and Unwin London.
- Chelliah, Raja J.et. al (1981), Trends and Issues in India's Federal Finance, National Institute of Public Finance and Policy , New Delhi.
- Cornes, R. and T. Sandler (1986), The Theory of Externalities, Public Goods and Club Goods, Cambridge University Press, Cambridge.
- Cutt, J. (1969), Taxation and Economic Development in India, Frederick A Praegar Publishers, New York.
- Datt, R. (Ed.) (2001), Second Generation Economics Reforms in India, Deep & Deep Publications, New Delhi.
- Dorfman, R. (Ed.) (1970), Measuring the Benefits of Government Investment, Brookings Institution, Washington.
- Duff, L. (1997), Government and Market, Orient Longman, New Delhi.
- Ferguson, J.M.(Ed.) (1964), Public Debt and Future Generations, North Carolina University Press, Chapel Hill.
- Friedman, A. (1986), Welfare Economics and Social Choice Theory, Martins Nijhoff, Boston.
- Gandhi, V.P.(1970), Some Aspects of India's Tax Structure, Vora and Company, Bombay.
- Glennester, H. and J. Hills (1998), The State of Welfare : The Economic and Social Spending , Oxford University Press, London.
- Goode, R.(1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
- Government of India (1992), Reports of the Tax Reforms Committee – Interim and Final

- Grivastava, D.K.(Ed.) (2000), Fiscal Federalism in India, Har-Anand Publications Ltd., New Delhi.
- Gulati, I.S. (1979), Centre State Financial Relations : An Assessment of the role of Finance Commission, M.S.university of Baroda, Baroda.
- Herber, B.P. (1967), Modern Public Finance, Richard D. Irwin, Homewood.
- Houghton, J.M. (1970), The Public Finance: Selected Readings, Penguin, Harmondsworth.
- Jain, A.K. (1975), Taxation of Income in India, Macmillan Company of India Ltd., New Delhi.
- Jain, I. (1988), Resource Mobilization and Fiscal Policy in India, deep & Deep Publications, New Delhi.
- Jha, R., (1998), Modern Public Economics, Routledge, London.
- Kaldor, N. (1955), An Expenditure Tax, George Allen and Unwin, London.
- Kumar, A. (1999), The Black Economy in India, Penguin, Harmondsworth.
- Lakdawala, D.T.(1967), Union State Financial Relations, Lalwani Publishing House, Mumbai.
- Menutt, P. (1996), The Economics of Public Choice, Edward Elgar, U.K.
- Mishan, E.J. (1982), Cost-Benefit Analysis : An Informl Introduction, George Allen and Unwin, London.
- Mueller, D.C. (1979), Public Choice, Cambridge University Press, Cambridge.
- Mundle, S. (1999), Public Finance Policy : Issues for India, Oxford University Press , New Delhi.
- Musgrave, R.A. (1977), Essays in Fiscal Federalism, Greenwood West Port.
- Musgrave, R.A. and C. Shoup (Eds) (1970), Readings in the Economics of Taxation , George Allen and Unwin, London.
- Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
- Musgrave; R.A., (1959), The Theory of Public Finance, McGraw Hill, Kogakhusa, Tokyo.
- Oates, W.E. (1972). Fiscal Federalism, Harcourt Brace and Johanowich, New York.
- Peacock, A. and D.J. Robertson (Eds.) (1963), Public Expenditure ; Appraisal and Control, Oliver and Boyd, Edinburgh.
- Peacock, A. and G.K. Shaw (1976), The Economic Theory of Fiscal Policy, George Allen and Unwin, London.
- Phyrr, P. (1970), Zero Base Budgeting: A Practical Management Tour Tool for Evaluating Expenses, John Wiley, New York.
- Premchand, A. (1966), Control of Public Expenditure in India , Allied Publishers , New Delhi.
- Reports of various finance Commissions.
- Sahni, B.S. (Ed) (1972), Public Expenditure Analysis : Selected Readings, Rotherdam University Press.
- Shome, P.(Ed.) (1995), Tax Policy: Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.
- Shoup, C.S. (1970), Public Finance, Aldine, Chicago.
- Singh, T. (2000), The Corporation Tax in India, Classical Publishing Company , New Delhi.
- Spulber, N (1998), Redefining the State, Cambridge University Press, Cambridge.
- Sreekantaradhya , B.S. (1972), Public Debt and Economic Development in India, New Delhi.
- Stiglitz J.E. (1986), Economics of Public Sector, Norton, New York.

INTERNATIONAL ECONOMICS - I

Sr. No.	Topic and Details
1.	<p>Theory of International Trade:</p> <p>The classical theory – absolute and comparative advantage – real cost and opportunity cost approaches, modern theory of international trade – Heckscher-Ohlin theorem – factor endowment and factor price approaches, Theorem of factor price equalization, empirical testing of theories of comparative cost and Heckscher-Ohlin model.</p>
2.	<p>New Theories of Trade:</p> <p>The product cycle hypothesis, the vent-for-surplus approach, the Rybezynski theorem, imitation gap theories of trade, increasing returns to scale, intra industry trade, the Neo-Heckscher-Ohlin model, Neo-Chamberlinian models, Neo-Hotelling models, oligopolistic model – Brander-Krugman model, the reciprocal dumping model, empirical work in intra-industry trade - Balassa index and Grubel-Lloyed index.</p>
3.	<p>Gains from Trade:</p> <p>Measurement of gains from trade and their distribution, concept of terms of trade – their uses and limitations, Imperfect competition and international trade, hypothesis of secular deterioration of terms of trade – its empirical relevance and policy implications for less developed countries, trade as an engine of growth – welfare implications.</p>
4.	<p>Theory of Interventions:</p> <p>Tariffs and non-tariff barriers, economic effect of tariff under partial equilibrium (price effect, terms of trade effect, competitive effect, income effect, revenue effect), effect of tariff under general equilibrium, Stolper-Samuelson theorem, nominal, effective and optimum rates of tariff.</p>

INTERNATIONAL ECONOMICS - II

Sr. No.	Topic and Details
1.	<p>Balance of Payments:</p> <p>Meaning and components of balance of payments, disequilibrium in balance of payments, adjustment mechanisms – elasticity approach, absorption approach, monetary approach and portfolio balance approach, internal and external balance – Swan model, foreign trade multiplier.</p>
2.	<p>Exchange Rates and Exchange Control:</p> <p>Flexible and fixed exchange rates, determination of exchange rates – mint parity theory, purchasing power parity theory, balance of payments theory; meaning and objectives of exchange control, methods of exchange control, optimum currency area theories.</p>
3.	<p>The Theory of Regional blocks:</p> <p>Forms of economic cooperation, reforms for the emergence of trading blocks at the global level, rationale and economic progress of SAARC/SAPTA and ASEAN regions, regionalism (EU, NAFTA), multilateralism and WTO, Rise and fall of gold standard and Bretton-Woods system, emerging international monetary system, IMF – mechanism of membership quota and borrowing, conditionalities; reform of international monetary system – India and developing countries; theory of short term capital movements and East-Asia crisis - lessons for developing countries, functions of GATT/WTO, UNCTAD, IMF, World Bank and Asian Development Bank and their achievements and failures, WTO and World Bank from the point of view of India.</p>
4.	<p>Trade Policies in India:</p> <p>Trade policies in India during last five decades with emphasis on post reform policies, recent changes in the direction and composition of trade and their implications, rationale and impact of trade reforms since 1991 on balance of payments, employment and growth; problems of India's international debt, working and regulations of MNCs in India, instruments of export promotion and agenda for future, convertibility of rupee.</p>

References:

- Aggarwal, M.R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- Barrow, R.J. (1993), Macro Economics, 4th Edition, John Wiley, New York.
- Bhagwati, J. (1988), Protectionism, Cambridge University Press, Mass.
- Bhagwati, J. (Ed.) (1981), International Trade : Selected Readings, Cambridge University Press, Mass.
- Bhagwati, J. and P. Desai (1970). India : Planning for Industrialization, Oxford Universities Press, London.
- Brahmananda, P.R. (1982), The IMF Loan and India's Economic Future, Himalaya Publishing House, Bombay.

- Brahmananda, P.R. and V.R. Panchmukhi (Eds.), (1987). The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
- Carbough, R. J. (1999), International Economics, International Thompson Publishing, New York.
- Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.
- Clement, M.O., R.L. Pffister and K.J. Rothwell (1969), Theoretical Issues in International Economics, Cosntable Publication, London.
- Corden, W.M. (1965), Recent Developments in the Theory of International Trade, Princeton University Press, Princeton.
- Corden, W.M.(1974), Trade Policy and Economics Welfare, Clarendon Press, Oxford.
- Crockett, A. (1982), International Money : Issue and Analysis, The ELBS and Nelson.
- Dana, M.S. (2000), International Economics : Study, Guide and Work Book, (5th Edition), Routledge Publishers, London.
- Dunn, R.M. and J.H. Mutti (2000), International Economics, Routledge, London.
- Goldstein, M. (1998). The Asian Financial Crisis : Causes, Cure and Systematic Implication, Institute for International Economics, Washington, D.C.
- Grable, J.O. (1996), International Financial Markets , Prentice Hall Englewood Cliffs, New York.
- Greenway, D. (1983), International Trade Policy, Macmillan Publishers Ltd., London.
- Heller, H. Robert (1968), International Monetary Economics, Prentice Hall, India.
- Jakson, J. (1989), The World Trading System, Cambridge University Press, Mass.
- Joshi, V. and I.M.D. Little (1998), India's Economic Reforms, 1999-2000, Oxford University Press, New Delhi.
- Kenen, P.B. (1994), The International Economy, Cambridge University Press, London.
- Kenen, P.B. (1995), Economic and Monetary Union in Europe, Cambridge Univesity Press, UK.
- Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
- Kindleberger, C.P. (1996), A History of Financial Crisis : Manias, Panics and Crashes, (3rd Edition), John Wiley and Sons, New York.
- King, P.G. (1995), International Economics and International Economics Policy : A Reader, McGraw Hill International, Singapore.
- Krugman, P.R. and M. Obstfeld (1994), International Economic : Theory and Policy , Glenview, Foresman.
- Linder, S.B. (1961), An Essay on Trade and Transformation, Wiley, New York.
- Manmohan Singh (1964), India's Export Trends and the Prospects for Self-Sustained Growth, Oxford University Press, New Delhi
- Mishkin, S.F. (1998), The Economics of Money , Banking and Financial Markets, (5th Edition) Harper Colins Publishers, New York.
- Mundell, R. (1968), International Economics, The Macmillan Company Ltd., New York.
- Nayyar, D. (1976), India's Export and Export Policies in the 1960s, Cambridge University Press.
- Niehans, J. (1984), International Monetary Economics, John Hopkins University Press, Baltimore.
- Panchmukhi, V.R. (1978), Trade Policies of India – A Quantitative Analysis, Concept Publishing Company, New Delhi.
- Panchmukhi, V.R., K.M. Rajpuria and R. Tandon (1987), Money and Finance in World Economic Order (RIS), Indus Publishing Co., Delhi.
- Patel, S.J. (1995), Indian Economy Towards the 21st Century, University Press Ltd., India.
- Pomfrert, R. (1988) Unequal Trade : The Economics of Discriminatory International Trade Policies, Blackwell Publishers, Oxford.
- Pomfrert, R. (1996), International Trade : An Introduction to Theory and Policy, Basil Blackwell, Oxford.

- Salvatore, D. (1997), International Economics, Prentice Hall,. Upper Saddle River, N.J. New York.
- Satyanarayan, B. (1986), India's Trade with Asia and the Far East Countries, B.R. Publishing Corp. New Delhi.
- Schwartz, A.J. (1987), Money in Historical Perspective, Chicago University Press, Chicago
- Soderston, Bo (1991),. International Economics, The Macmillan Press Ltd., London.
- Soloman, R. (1982), The Evaluation of the International Monetary System : 1945-1981, Harper and Row Publishers, New York.
- Tew, B. (1985), The Evaluation of the International Monetary System : 1945-85, Hutchinson.
- Verma, M.L. (1995), International Trade, Vikas Publishing House Pvt. Ltd., Delhi.
- Whalley, John (1985), Trade Liberlization Among Major Trading Areas, Cambridge University Press, Mass.
- Yeager, L.B. (1976), International Monetary Relations : Theory, History and Policy , Harper and Row, New York.