



SNDT Women's University 1, Nathibai Thackersey Road, Mumbai 400020

| Plan<br>Peri<br>od                      | &<br>Medi<br>um     |      | Minor<br>Irrigat<br>ion | Irrigat      | CAD       | CA<br>D | Total (Mj, Md,<br>Mi and CAD)<br>Expenditure/Inv<br>estment | Cumulat<br>ive<br>Expendi<br>ture<br>(Invest<br>ment) | Annual<br>Averag<br>e<br>Expendi<br>ture | Total<br>Plan<br>Expendi<br>ture in<br>All<br>Sectors | Ratio of<br>Expendit<br>ure on<br>Irrigatio<br>n<br>Infrastru<br>cture to<br>All<br>Sectors<br>Expendit<br>ure |
|---|---------------------|------|-------------------------|--------------|-----------|---------|---|---|--|---|--|
| l<br>Plan<br>(195<br>1-56               |                     |      |                         |              |           |         |   |   |  |   |  |
| )<br>II<br>Plan<br>(195<br>6-           | 376.2               | 85.2 | 65.6                    | 14.8         | -         |         | 441.8   | 441.8   | 88.4                                     | 1960  | 22.5   |
| 61)<br>III<br>Plan<br>(196<br>1-        | 380                 | 70.2 |                         | 29.8         | _         |         | 541.6   | 983.4   | 108.3                                    | 4672  | 11.6   |
| 66)<br>Ann<br>ual<br>plan<br>(196<br>6- | 576                 | 56.6 |                         | 43.4         | -         |         | 1017.5  | 2000.9  | 203.5                                    | 8577  | 11.9   |
| 69)<br>IV<br>Plan<br>(196<br>9-<br>74)  | 429.8<br>1242.<br>3 | 43.6 | 1167.                   | 56.4<br>48.4 | -         |         | 985.9<br>2409.6   | 2986.7<br>5396.3                                      | 328.6<br>481.9                           | 6625<br>15779   | 14.9   |
| V<br>Plan<br>(197<br>4-<br>78)          | 2516.<br>2          | 61.5 | 1426.<br>3              | 34.9         | 147.<br>6 | 3.6     | 4090.1  | 9486.4  | 1022.5                                   | 28653   | 14.3   |
| Ann<br>ual<br>Plan<br>s<br>(197<br>8-   | 2078.               |      |                         |              | 215.      |         |   |   |  |   |  |
| 80)<br>VI<br>Plan<br>(198<br>0-         | 7368.               | 63.6 | 976.6<br>3416.          | 29.9         | 743.      | 6.6     | 3270.5  | 12756.9   | 1635.3                                   | 22950   | 14.3   |
| 85)                                     | 8                   | 63.9 |                         | 29.6         | 1         | 6.4     | 11528.7   | 24285.6   | 2305.8                                   | 109292  | 10.5   |

| VII<br>Plan<br>(198<br>5-<br>90)      | 11107<br>.3  | 59.2 | 6192.<br>9  | 33.0 | 144<br>7.5  | 7.7       | 18747.7  | 43033.2      | 3749.5       | 218730      | 8.6 |
|---------------------------------------|--------------|------|-------------|------|-------------|-----------|----------|--------------|--------------|-------------|-----|
| Ann<br>ual<br>Plan<br>s               |              |      |             |      |             |           |          |              |              |             |     |
| (199<br>0-<br>92)                     | 5458.<br>8   | 60.1 | 3005.<br>9  | 33.1 | 619.<br>4   | 6.8       | 9084.1   | 99558.9      | 9084.1       | 123120      | 7.4 |
| VIII<br>Plan<br>(199<br>2-            | 21669        |      | 10472       |      | 193         | 40.       |          |              |              |             |     |
| 97)                                   | .2           | 63.6 | .4          | 30.7 | 7.9         | 40.<br>4  | 34079.5  | 86196.9      | 6815.9       | 485457      | 7   |
| IX<br>Plan<br>(199<br>7-<br>200<br>2) | 49289<br>.6  | 78.5 | 11296<br>.7 | 18.0 | 222<br>2. 8 | 187<br>.6 | 62809.1  | 149006       | 12561.8      | 859200      | 7.3 |
| X<br>Plan<br>(200<br>2-<br>200<br>7)  | 83647        | 80.9 | 17181       | 16.6 | 253<br>4. 8 | 224       | 103363.6 | 252369.<br>6 | 20672.7      | 152563<br>9 | 6.8 |
| XI<br>Plan<br>(200<br>7-              |              | 60.9 |             | 10.0 |             | .2        | 105505.0 |              |              |             | 0.0 |
| 201<br>2)                             | 17447<br>3.3 | 79.3 | 40665<br>.1 | 18.5 | 492<br>1.8  | 2.2       | 220060.2 | 472429.<br>8 | 44012.0<br>4 | 288865<br>4 | 7.6 |

# **Eligibility:**

- 1. A student is required to have a background in economics at the undergraduate level for M.A. degree in economics.
- 2. The eligibility criteria for students who do not have a background in economics at the undergraduate level may be decided by respective Post Graduate departments and Post Graduate Centers.

# **Objectives:**

The objective of the course is to introduce the students to the advanced theories in Economics. It also equips the students to understand analytical aspects of the subject and enable them to understand the tools of empirical analysis.

# **Prerequisites:**

- 1. A student is required to obtain 80 credits for MA degree: 32 credits in core modules and further 48 credits in optional modules (One credit is equivalent to 15 hours of teaching in a semester).
- 2. Students are required to take two core and three optional papers in I and II semesters and three core and two optional papers in III semester and one core paper, research project and internship in semester IV.

# SYLLABUS FORMAT

# Faculty Name: Social Sciences Course Name: MA – Economics

| Subject codes | Subject Titles                          | Credit | Internal | ТР           | <b>P</b> / | Т   |
|---------------|---|--------|----------|--------------|------------|-----|
|               |   |        |          | ( <b>E</b> ) | v          |     |
| Sem I         | Core Group                              |        |          |              |            |     |
| 106001        | Microeconomics - I                      | 4      | 50       | 50           |            | 100 |
| 106002        | Economics of Growth and Development -I  | 4      | 50       | 50           |            | 100 |
| Sem II        |   |        |          |              |            |     |
| 206003        | Microeconomics – II                     | 4      | 50       | 50           |            | 100 |
| 206004        | Economics of Growth and Development -II | 4      | 50       | 50           |            | 100 |
| Sem III       |   |        |          |              |            |     |
| 306005        | Macroeconomics - I                      | 4      | 50       | 50           |            | 100 |
| 306006        | Indian Economy                          | 4      | 50       | 50           |            | 100 |
| 306007        | Research Methodology                    | 4      | 50       | 50           |            | 100 |
| Sem IV        |   |        |          |              |            |     |
| 406008        | Macroeconomics - II                     | 4      | 50       | 50           |            | 100 |
| 406888        | Research Project                        | 8      |          |              |            | 200 |
| 406999        | Internship                              | 8      |          |              |            | 200 |
|               | Optional Group                          |        |          |              |            |     |
| 506101        | Industrial Economics                    | 4      | 50       | 50           |            | 100 |
| 506102        | Labour Economics                        | 4      | 50       | 50           |            | 100 |
| 506103        | Mathematical Economics                  | 4      | 50       | 50           |            | 100 |
| 506104        | Econometrics                            | 4      | 50       | 50           |            | 100 |
| 506105        | Demography                              | 4      | 50       | 50           |            | 100 |

| 506106 Agricultural Economics               | 4 | 50 | 50 |   | 100 |
|---|---|----|----|---|-----|
|   |   |    |    |   | 100 |
| 506107 Economics of Gender and Development  | 4 | 50 | 50 |   | 100 |
| 506108 Financial Institutions and Markets   | 4 | 50 | 50 |   | 100 |
| 506109 Economics of Infrastructure          | 4 | 50 | 50 |   | 100 |
| 506110 Public Economics                     | 4 | 50 | 50 |   | 100 |
| 506111 International Economics              | 4 | 50 | 50 |   | 100 |
| 506112 Economy of Maharashtra               | 4 | 50 | 50 |   | 100 |
| 506113 Rural Economics                      | 4 | 50 | 50 | _ | 100 |
| 506114 Urban Economics                      | 4 | 50 | 50 | _ | 100 |
| 506115 Economics of Co-Operations           | 4 | 50 | 50 | _ | 100 |
| 506116 Economics of Physical Infrastructure | 4 | 50 | 50 | _ | 100 |
| 506117 Economics of Social Infrastructure   | 4 | 50 | 50 | _ | 100 |
| 506118 Indian Agriculture                   | 4 | 50 | 50 | _ | 100 |

L = No. of Lectures / week, P / T = Practical / Tutorial in hrs, D = Duration of Theory paper for Examination in hrs, TP = Theory Paper-marks, Internal = Internal Assessment in marks, P/V = Practical / Viva Voce - marks, T = Total

# **CORE GROUP**

#### MICROECONOMICS-1

#### PREAMBLE

This paper analyses the economic behavior of individuals, firms and markets. It is mainly concerned with objectives of equipping the students in rigorous and comprehensive manner with the various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework. The paper also deals with the welfare economics and general equilibrium in closed and open systems and analysis of economic behaviour under uncertainty

| <b>MICROECONOMICS - I</b> | - 106001 |
|---------------------------|----------|
|---------------------------|----------|

| Sr.<br>No. | Topic and Details   | No. of<br>lectures<br>assigned | Weightage<br>in % |
|------------|---|--------------------------------|-------------------|
| 1.         | Introduction and Consumer behavior :  | 20                             | 33                |
|            | Basic Concepts-Economic Models, Exogenous and<br>endogenous variable, Optimization and equilibrium. Demand<br>curve, Supply curve, Market equilibrium, comparative statics-<br>Market structures. Extension of demand and supply analysis -<br>Elasticity of demand and supply- Income elasticity- concept ,<br>methods of measurement-empirical estimation, relationship<br>between individual demand and market demand, application |                                |                   |

|    | of elasticity of demand. Consumer behavior-The problem of<br>optimization; budget constraints, consumer preference, utility,<br>choice, derivation of law of demand. Revealed preference-<br>The weak and strong ordering- axioms of revealed preference-<br>law of demand-from revealed preference to index numbers.<br>Revision of demand theory by Hicks- Consumer's surplus. |    |    |
|----|--|----|----|
| 2. | Production and Costs:law of variable proportions and returns to scale ;Productionfunction: Cobb-Douglas , CES, VES and Translog functions,Cost of production – concepts - Costs in the short run-longrun, cost minimization input choices, isoquants – iso-cost,Least cost combination of inputs ; production with twooutputs – economies of scope, learning curve.              | 15 | 25 |
| 3. | Partial and General Equilibrium:The competitive firm (partial equilibrium); Generalequilibrium, efficiency in exchange – equity and efficiency,efficiency in production, the gains from trade, market failures– market power, incomplete information, externalities, publicgoods.  | 15 | 25 |
| 4. | Welfare economics:Pareto optimality; criteria for value judgments, social welfare<br>function, Pareto criterion, Kaldor-Hicks criterion, Bergson<br>Criterion, Arrow's Impossibility Theorem.  | 10 | 17 |

# MICROECONOMICS – II - 206003

| Sr.<br>No. | Topic and details   | No. of lectures assigned | Weightage<br>in % |
|------------|---|--------------------------|-------------------|
| 1.         | Game theoretic approach:  | 8                        | 13                |
|            | Basic concepts, Zero sum game, pure strategy – pay off matrix – Nash Equilibrium.   |                          |                   |
| 2.         | Price output determination:   | 15                       | 25                |
|            | Price-output determination under different market structures<br>– Monopoly – price discrimination under monopoly –<br>welfare aspects of monopoly – monopolistic competition –<br>short run and long run equilibrium – excess capacity,<br>Chamberlin's approach – Oligopoly – Non-collusive models<br>(Cournot, Bertrand, Edgeworth, Chamberlin, kinked demand<br>curve and Stackelberg's solution) Collusive Models<br>(Cartels, Price Leadership). |                          |                   |
| 3.         | Alternative Theories of Firm:Critical evaluation of marginal analysis; Baumol's Salesrevenue maximization model – full cost pricing rule, Bain'slimit pricing – Sylos-Labini model.   | 10                       | 17                |

| 4. | Markets for factor input:   | 10 | 16 |
|----|---|----|----|
|    | Factor pricing with perfect competition and imperfect<br>competition in both the markets; Monopsony power and<br>monopoly power, product exhaustion theorem.  |    |    |
| 5. | Market with asymmetric information: Markets for<br>lemons, market signaling, moral hazards, principal agent<br>problem.   | 7  | 12 |
| 6. | Choice under uncertainty:<br>Describing risk – expected value, decision making under<br>uncertainty, Neumann-Morgenstern Index, preferences towards<br>risk – reducing risk-diversification-insurance. The demand for<br>risky assets-the trade off between risk and return-mean variance<br>model of asset choice. | 10 | 17 |

- Arrow, K.J. and M.D. Intrilligator (Eds) (1981), <u>Handbook of Mathematical Economics</u>, Vol, I North Holland, Amsterdam.
- Braodway, R.W. and N. Bruce (1984), <u>Welfare Economics</u>, 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), <u>A Survey of General Equilibrium Systems</u>, McGraw Hill New York.
- Henderson, J.M.and R.E. Quandt (1980), <u>Microeconomic Theory: A Mathematical Approach</u>, McGraw Hill, New Delhi.
- Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice
- Koutsoyiannis, A. (1979), <u>Modern Microeconomics</u>, (2<sup>nd</sup> Edition), Macmillan Press, London.
- Kreps, David M. (1990), <u>A Course in Microeconomic Theory</u>, Princeton University Press, Princeton.
- Layard, P.R.G. and A.W. Walters (1978), <u>Microeconomic Theory</u>, McGraw Hill, New York.
- Pindyck Robert S. and Rubienfeld (), Microeconomics
- Salvatore D., Microeconomics
- Sen, A. (1999), <u>Microeconomics : Theory and Applications</u>, Oxford University Press, New Delhi.
- Stigler, G. (1996), <u>Theory of Price</u>, (4<sup>th</sup> Edition), Prentice Hall of India, New Delhi.
- Varian , H. (2000), <u>Microeconomic Analysis</u>, W.W. Norton , New York.

#### ECONOMICS OF GROWTH AND DEVELOPMENT

## PREAMBLE

The study of economic development has gained importance because of sustained interest of the development countries in uplifting their economic conditions by restructuring their economies to acquire greater diversity, efficiency and equity in consonance with their priorities. While few success stories can be counted, many have grappled with chronic problems of narrow economic base, inefficiency and low standard of living. For this and other reasons, there have been many approaches to economic development. This paper exposes the students to diverse theories, models and views on development.

| Sr. | Topic and Details  | No. of   | Weightage |
|-----|--|----------|-----------|
| No. |  | Lectures | in %      |
|     |  | Assigned |           |
| 1   | Basic Concepts:  | 10       | 17        |
|     | Economic growth and development- Measurement of          |          |           |
|     | Development-Indices of development - PQLI, HDI, Gender   |          |           |
|     | Adjusted HDI - Inter country comparisons of development- |          |           |
|     | Development Gap.   |          |           |
| 2   | Economic Growth Models-:                                 | 10       | 17        |

#### **ECONOMICS OF GROWTH AND DEVELOPMENT-I – 106002**

|   | Neo- classical – Solow and Meade- Joan Robinson's Growth<br>Model-Hicks-Harrod-; learning by doing approach, Harrod-<br>Domar Model, Technological progress- embodied and<br>disembodied technical progress-Kaldor and Pasinetti- Two<br>sector model – Endogenous growth.   |    |    |
|---|--|----|----|
| 3 | <b>Economic Growth Theories :</b><br>Theories of growth and development : Circular Causation,<br>Unlimited Supply of Labour, Ranis and Fei model, Big Push,<br>Balanced and Unbalanced Growth, Critical Minimum Effort, Low<br>Level Equilibrium Trap, Dualism   | 10 | 16 |
| 4 | <b>Theories of Development:</b><br>Classical theory of development- contributions of Adam Smith,<br>Ricardo, Malthus and James Mill, Karl Marx and development of<br>capitalistic economy- theory of social change, surplus value and<br>profit; Schumpeter and capitalistic development, innovation- role<br>of credit, profit and degeneration of capitalism, Structural<br>analysis of development. | 20 | 33 |
| 5 | Views of Development:<br>Dr. Babasaheb Ambedkar -state socialism, - Mahatma Gandhi-<br>Trusteeship; Amartya Sen- entitlements.   | 10 | 17 |

# ECONOMICS OF GROWTH AND DEVELOPMENT-II - 206004

| Sr. | Topic and Details   | No. of   | Weightage |
|-----|---|----------|-----------|
| No. |   | Lectures | in %      |
|     |   | Assigned |           |
| 1.  | Social ,Institutional and Infrastructure Aspects:                 | 15       | 25        |
|     | Role of Infrastructure in economic development and its            |          |           |
|     | importance- Population as limits of growth and as ultimate        |          |           |
|     | resource- 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:                                  | 15       | 25        |
|     | 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:                                   | 10       | 17        |
|     | 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   | Macro Policies and Development:                                   | 10       | 17        |
|     | Monetary and fiscal policy- Foreign Direct Investment (FDI) –     |          |           |

|   | Multi-National Corporations (MNCs)- IMF and World Bank and Developing Countries. |    |    |
|---|--|----|----|
| 5 | Planning and Development:  | 10 | 16 |
|   | Role of planning – Types of planning – Review of Indian Plans.                   |    |    |
|   | Role of planning – Types of planning – Review of Indian Plans.                   |    |    |

- Adelman, I. (1961), <u>Theories of Economic Growth and Development</u>, Stanford University Press, Stanford.
- Barrell, R.G. Mason and M.O. Mahoney (2000), <u>Productivity, Innovation and Economic</u> <u>Performance</u>, Cambridge University Press, Cambridge.
- Barrow, R. and X. Sela I, Martin, Economic Growth, McGraw Hill, New York.
- Behrman, S.and T.N. Srinivasan (1995), <u>Handbook of Development Economics</u>, Vol.3, Elsevier, Amsterdam.
- Bhagwati, J. and P. Desai (1970), <u>India : Planning for Industrialization</u>, Oxford University Press, London.
- Brahmananda, P.R. and C.N. Vakil (1956), <u>Planning for an Expanding Economy</u>, Vcra and Co., Bombay.
- Brown, M. (1966), <u>On the Theory and Measurement of Technical Change</u>, Cambridge University Press, Cambridge, Mass.
- Campbell, N. and F. Burton (Eds.) (1994), Japanese Multinationals, Routledge, New York.
- Chakravarati, S. (1987), <u>Development Planning : The Indian Experience</u>, Clarendon Press, Oxford.
- Chakravarti, S. (1982), <u>Alternative Approaches to the Theory of Economic Growth</u>, Oxford University Press, New Delhi.
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), <u>Handbook of Development Economics</u>, Vols. 1& 2, Elsevier, Amsterdam.
- Chenery, H.B.et.al. (Eds.) (1974), <u>Redistribution with Growth</u>, Oxford university Press, Oxford.
- Dasgupta, P. (1993), <u>An Enquiry into Well-being and Destitution</u>, Clarendon Press, Oxford.
- Dasgupta, P., A.K. Sen and S. Marglin (1972), <u>Guidelines for Project Evaluation</u>, UNIDO, Vienna.
- Ghatak, S. (1986), <u>An Introduction to Development Economics</u>, Allen and Unwin, London.
- Gillis, M., D.H. Perkins, M.Romer and D.R. Snodgrass (1992), <u>Economics of Development</u>, (3<sup>rd</sup> Edition), W.W. Norton, New York.
- Gimmell, N. (1987), <u>Surveys in Development Economics</u>, Blackwell, Oxford.
- Grossman, G. and E. Helpman (1991), <u>Innovation and Growth in the Global Economy</u>, MIT Press, Cambridge, Mass.
- Gupta, S.B. (1988), <u>Monetary Economics : Institutions, Theory and Policy</u>, S. Chand and Co., New Delhi.
- Hayami, Y. (1997), <u>Development Economics</u>, Oxford University Press, New York.
- Hayami, Y. and M. Akoi (Eds.) (1998), <u>The Institutional Foundations of East Asian</u> <u>Economic Development</u>, Macmillan, London.
- Higgins, B. (1959), Economic Development, W.W.Norton, New York.
- Hirsch, A.O. (1958), <u>The Strategy of Economic Development</u>, 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), <u>A New Institutional Approach to Economic</u> <u>Development</u>, Vistaar.
- Killick, T. (1995), <u>IMF Programmes in M Developing Countries : Design and Impact</u>, Routledge, London.
- Kindleberger, C.P.(1977), <u>Economic Development</u>, (3<sup>rd</sup> Edition), McGraw Hill, New York.
- Kuznets, Simon (1971), <u>Economic Growth of Nations, Total Output and Production Structure</u>, Harvard University Press, Cambridge, Mass.
- Lewis, W.A. (1955), <u>The Theory of Economic Growth</u>, George Allen and Unwin, London.

- Little, I.M.D. (1982), <u>Economic Development : Theory and International Relations</u>, Basic Books, New York.
- Mason, M. (1992), <u>American Multinationals and Japan</u>, Harvard University Press, Cambridge, Mass.
- Meadows, D.H. et. al. (1972), <u>The Limits to Growth</u>, 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, (6<sup>th</sup> Edition), Oxford University Press, New Delhi.
- Meier, G.M. and D. Seers (Eds.)(1987), <u>Pioneers in Development</u>, Oxford University Press, New York.
- Mishan, E.J. (1975), <u>Cost-Benefit Analysis</u>, (2<sup>nd</sup> Edition), Allen and Unwin, London.
- Myint, H. (1971), <u>Economic Theory and Underdevelopment Countries</u>, Oxford University Press, New York.
- Myint, Hla (1965), <u>The Economics Of Underdevelopment Countries</u>, Preager, New York.
- Myrdal, G. (1957), <u>Economic Theory and Underdeveloped Regions</u>, Duckworth, London.
- Nayyar, D. (Ed) (1994), <u>Industrial Growth and Stagnation</u>, <u>The Debate in India</u>, Oxford University Press, New Delhi.
- Ranis, G. and A. Mahmood (1992), <u>Political Economy for Development</u>, Blackwell, Cambridge Mass.
- Schumpeter, J.A. (1949), <u>The Theory of Economic Development</u>, Harvard University Press, Cambridge, Mass.
- Sclow, R.M. (2000), <u>Growth Theory : An Exposition</u>, Oxford University Press, Oxford.
- Sen, A : (1992), <u>Inequality Reexamined</u>, Oxford University Press, Oxford.
- Sen, A.K. (Ed.)(1990), <u>Growth Economics</u>, Penguin, Harmondsworth.
- Taylor, L. (1979), <u>Macro Models for Developing Countries</u>, McGraw Hill, New York.
- Therberge, J.D. (Ed.) (1968), Economics of Trade and Development, John Wiley, New York.
- Thirlwal, A.P. (1974), Inflation, <u>Saving and growth in Developing Economies</u>, Macmillan, London.
- Thirwal, A.P. (1999), (6<sup>th</sup> Edition), <u>Growth and Development</u>, Macmillan, U.K.
- Todaro, M.P. (1971), <u>Development Planning : Models and Methods</u>, Oxford University Press, Oxford.
- Todaro, M.P. (1971), <u>Development Planning : Models and Methods</u>, Oxford University Press, Oxford.
- Todaro, M.P. (1996), (6<sup>th</sup> Edition), <u>Economic Development</u>, Longman, London.
- Todaro, M.P.(1971), <u>Development Planning : Models and Methods</u>, Oxford University Press, Oxford.
- United Nations (1994), <u>Human Development Report</u>, 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 - 1

#### PREAMBLE

Macroeconomics or aggregative economics analyses and establishes the functional relationship between the large aggregates. The aggregate analysis has assumed great significance in recent times. It is necessary to have a prior understanding of macroeconomic theoretical structure for the proper comprehension of different issues and policies. Macroeconomics now is not only a scientific method of analysis, but also a body of empirical economic knowledge. This paper equips the students at the postgraduate level to understand systemic facts and latest theoretical developments for empirical analysis.

#### MACROECONOMICS - I - 306005

| Sr.<br>No. | Topic and Details  | No. of<br>Lectures<br>Assigned | Weightage<br>in % |
|------------|--|--------------------------------|-------------------|
| 1          | Macroeconomic variables:<br>GDP-GNP-NNP- Potential output-Actual Output-Okun's Law-<br>Price Indices-Real income-Nominal income- Per capita income-<br>Disposable income –Some key identities-National income<br>accounts-Flow of funds accounts | 12                             | 20                |
| 2          | Income Determination:  | 12                             | 20                |

|   | Macro economic equilibrium-Simple Keynesian Model IS-LM<br>Analysis-Impact of fiscal and monetary policies-Aggregate<br>supply and Aggregate demand model   |    |    |
|---|---|----|----|
| 3 | Consumption Function and Investment Function:<br>Absolute income hypothesis-Relative income hypothesis –<br>Permanent income hypothesis -Life Cycle hypothesis- Neo-<br>classical and Keynesian approaches-MEC-Accelerator-Multiplier | 12 | 20 |
| 4 | Demand for Money:Cambridgeapproach-Keynesianapproach-Friedman'sapproach-Tobin'sportfolioapproach-Tobinandapproachtotransactionsdemandforbalanceapproach   | 12 | 20 |
| 5 | Supply of money:<br>Constituents of money supply-High-powered money-Money<br>multiplier-RBI approach to supply of money   | 12 | 20 |

# MACROECONOMICS - II -306008

| Sr. No. | Topic and Details   | No. of<br>Lectures<br>Assigned | Weightage<br>in % |
|---------|---|--------------------------------|-------------------|
| 1       | Rate of interest:<br>Real and nominal rate of interest- Theories of interest rates<br>–Classical- Neo-classical-Lonable Funds and liquidity<br>Preference   | 12                             | 20                |
| 2       | Macroeconomics in Open economy:<br>Balance of payments-Exchange rates regime-Mundell-<br>Fleming model under fixed and flexible exchange rates-<br>Exchange rates overshooting-Purchasing power and interest<br>rate parities   | 12                             | 20                |
| 3       | <b>Inflation:</b> 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 | 12                             | 20                |
| 4       | Business cycles: Theories of Schumpeter-Kaldor-Samuelson  | 12                             | 20                |

|   | and Hicks-Goodwin's Model-Control of business cycles-<br>Relative efficacy of monetary and fiscal policies  |    |    |
|---|---|----|----|
| 5 | <b>Macroeconomic policy Issues:</b> Lags in the effects of policy,<br>Automatic stabilizers, Targets, Indicators and instruments-<br>Activist Policy- Gradualism versus shock therapy-Rules<br>versus discretion- Role of Cerdibility- Dynamic Inconsistency<br>Problem – Inflation targeting | 12 | 20 |

- Ackley, G. (1978); <u>Macroeconomics : Theory and Policy</u>, Macmillan, New York.
- Blackhouse, R. and A. Salansi (Eds.)(2000), <u>Macroeconomics and the Real World</u> (2Vols.), Oxford University Press, London.
- Branson, W.A. (1989), <u>Macroeconomics Theory and Policy</u>, (3<sup>rd</sup> Edition), Harper and Row, New York.
- Chakravarty, S.C. (1985), <u>Report of the Committee to Review the Working of the Monetary</u> <u>System</u>, Reserve Bank of India, Bombay.
- Culberston, J.M. (1958), <u>Macroeconomic Theory and Stabilization Policy</u>, McGraw Hill, Kogenkosh, Tokyo.
- D"Souza, Errol: (2008); Macroeconmics; Pearson Education; Delhi.
- Dornbusch, R. and F. Stanley (1997), <u>Macroeconomics</u>, McGraw Hill. Inc., New York.
- Dornbusch, Rudiger. and Stanley Fischer and Startz Richard (2004). <u>Macroeconomics</u>, Tata McGraw-Hill (Chapter no 8)
- Duesenberry , J.S.(1949), <u>Income, Saving and the Theory of Consumer Behaviour</u>, Harvard University Press, Harvard.
- Edey, M.and A.T. Peacock (1967), <u>National Income and Social Accounts</u>, Hutchinson University Library, London .
- Friedman, M. (1956), <u>Studies in the Quantity Theory of Money</u>, The University of Chicago Press, Chicago.
- Friedman, M.(1957), <u>The Theory of Consumption Function</u>, Pinceton University Press, Princeton.
- Frisch, H. (1983), <u>Theories of Inflation</u>, Cambridge University Press, Cambridge.
- Gordon, R. and S.G. Harris (1998), <u>Macroeconomics</u>, Addison Wesley.
- Gordon, R.A. (1961), <u>Business Fluctuations</u>, Harper and Row.
- Gordon, R.A. and L.R. Klein (Eds.) (1965), <u>Readings in Business Cycles</u>, Irwin, Homewood.
- Gupta, S.B. (1995), <u>Monetary Planning in India</u>, Oxford University Press, New Delhi.
- Gurley, J. and E.S. Shaw (1960), <u>Money in a Theory of Finance</u>, Brooking Institution, Washington.
- Hagger, A.J. (1977) , Inflation : Theory and Policy, Macmillan , London.
- Hall, R.E. and J.B. Taylor (1986). <u>Macroeconomics</u>, W.W. Norton, New York.
- Heijdra, B.J. and V.P. Fredericck (2001), <u>Foundations of Modern Macroeconomics</u>, Oxford University Press, New Delhi.
- Hicks, J.R. (1950), <u>A Contribution to the Theory of Trade Cycles</u>, Clarendon Press, Oxford.
- Hicks, J.R.(1974), <u>The Crisis in Keynesian Economics</u>, Oxford University Press, New Delhi.
- Hudson, J.(1982), Inflation : <u>A Theoretical Survey and Synthesis</u>, George Allen and Unwin, London.
- Jha, R. (1991), <u>Contemporary Macroeconomic Theory and policy</u>, Wiley Eastern Ltd., New Delhi.
- Jha, R. (1999), <u>Contemporary Macroeconomic Theory and Policy</u>, New Age International (P) Ltd., New Delhi.
- Keynes, J.M. (1936), <u>The General Theory of Employment</u>, <u>Interest and Money</u>, Macmillan London.
- Laidler, D.E.W. (1977), <u>Demand for Money: Theory and Evidence</u>, Dum-Don Valley, New York.

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

#### INDIAN ECONOMY - 306006

#### PREAMBLE

The objective of this Paper at the postgraduate level would be to sharpen the analytical faculty of the student, by highlighting an integrated approach to the functioning aspects of the Indian economy, keeping in view the scope for alternative approaches. Such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting theories and a proper understanding of its working is imperative if the student is to comprehend the ramifications that underlie most of the observed phenomena in the Indian economic set-up. The emphasis of the paper is on overall social, Political and economic environment influencing policy decisions. To develop all these themes, the course is divided into specific modules.

| Sr. No. | Topic and Details   | No. of<br>lectures<br>assigned | Weightage<br>in % |
|---------|---|--------------------------------|-------------------|
| 1.      | Historical Perspective and Macro-Economic Indicators:   | 10                             | 17                |
|         | Review of Five Year plans and policies.   |                                |                   |
|         | National Income– GDP – SDP – NNP - Sectoral Composition – Regional Variations.                                  |                                |                   |
|         | Analysis of price behavior – Review of monetary policy in post reform period – reforms in banking sector – SEBI |                                |                   |

| 2. | Demographic features:  | 10 | 16 |
|----|--|----|----|
|    | Age composition-Sex ratio-Population policy – Literacy –<br>Sectoral pattern of employment   |    |    |
| 3. | Agricultural and Industrial Sector:  | 10 | 17 |
|    | Land holding pattern – Land Reforms – Crop Pattern –<br>Agricultural Labour – Technological change in agriculture –<br>Agricultural cost and prices commission – impact of reforms.<br>Industrial Policy – Private and public sector –Small scale<br>industries – Disinvestment – Industrial growth. |    |    |
| 4. | Public Finance:  | 10 | 17 |
|    | Trends in revenue and expenditure – Centre-State financial<br>relations – Recommendations of Finance Commissions –<br>Fiscal Sector Reforms  |    |    |
| 5. | External Sector:   | 10 | 16 |
|    | Structure and direction of foreign trade – Foreign Direct<br>Investment – Balance of Payments – Export-Import policy –<br>Trade Reforms.   |    |    |
| 6. | Infrastructure:  | 10 | 17 |
|    | Physical Infrastructure – Transport – Energy –<br>Telecommunication – Public Utilities – Water, Electricity,<br>Gas; Social Infrastructure – Health, Education, Social sectors.  |    |    |

- Ahluwalia I.J. and I.M.D. Little (Eds.) (1999), <u>India's Economic Reforms and Development</u> (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. (9<sup>th</sup> Edition) (1999), <u>The Political Economy of Development in India</u>, Oxford University Press, New Delhi.
- Bhagwati, J.N. and P. Desai (1970), <u>India : Planning for Industrialization</u>, Oxford University Press, London.
- Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (2001), <u>Development Experience in the</u> <u>Indian Economy ; Intert-State Perspectives</u>, Bookwell, Delhi.
- Chakravarty, S.(1987), <u>Development Planning : The Indian Experience</u>, Oxford University Press, New Delhi.
- Chelliah, Raja J. (1996), <u>Towards Sustainable Growth Essays in Fiscal and Financial Sector</u> <u>Reforms in India</u>, Oxford university Press, New Delhi.
- Dandekar, V.M. (1996), <u>The Indian Economy 1947-92</u>, Vol . II, Sage publications, New Delhi.
- Dantwala, M.L. (1996), <u>Dilemmas of Growth : The Indian Experience</u>, Sage Publications, New Delhi.
- Datt, R. (ED) (2001), <u>Second Generation Economic Reforms in India</u>, 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), Minstry of Finance , New Delhi.
- Hanumantha Rao, C.H. and H. Linnemann (Eds.) (1996), <u>Economic Reforms and Poverty</u> <u>Alleviation in India</u>, Sage Publications, New Delhi.
- Haq, M. (1996), <u>Reflections on Human Development</u>, Oxford University Press, New Delhi.
- Jain, A.K. (1986), <u>Economic Planning in India</u>, Ashish Publishing House, New Delhi.
- Jalan, B. (1992), <u>The Indian Economy Problems and Prospects</u>, Viking, New Delhi.

- Jalan, B. (1996), <u>India's Economic Policy Preparing for the Twenty First Century, Viking</u>, New Delhi.
- Joshi P.C. (1975), Land Reforms in India, Allied Publishers Pvt. Ltd., New Delhi
- Joshi, V. and I.M.D. Little (1999), <u>India : Macro Economics and Political Economy</u>, 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), <u>Indian Industry : Policies and Performance</u>, Oxford University Press, New Delhi.
- Narain, D. (1988), Studies on Indian Agriculture, Oxford University Press, New Delhi.
- Parikh, K.S. (1999), <u>India Development report 1999-2000</u>, Oxford University Press New Delhi.
- Rangarajan, C.(1998), Indian Economy : Essays on Money and Finance, UBS, New Delhi.
- Reserve Bank of India , <u>Report on Currency and Finance</u>, (Annual).
- Reserve Bank of India, <u>Report on Currency and Finance</u> (Annual).
- Sandesara, J.C. (1992), <u>Industrial Policy and Planning</u>, <u>1947-1991</u>; <u>Tendencies</u>, <u>Interpretations and Issues</u>, Sage Publications, New Delhi.
- Sen, R.K. and B.Chatterjee (2001), <u>Indian Economy</u>; <u>Agenda for 21<sup>st</sup> Century</u> (Essays in honour of Prof . P.R. Brahmananda ), Deep & Deep Publications, New Delhi.
- Subramanian, S. (Ed.) (1997), <u>Measurement of Inequality and Poverty</u>, Oxford University Press, Calcutta.
- Thirlwall, A.P. (1994), Growth and Development, ELBS, Macmillan Press, London

# **RESEARCH METHODOLOGY – 306007**

#### PREAMBLE

The objective of this paper is to orient the students in basic research methodology. This paper is a background for the core research component introduced in the syllabus. This paper will enable the students to prepare proposals for the research and conduct research projects. The students will also be equipped in the elementary Quantitative Techniques required in the processing and analysis of the data used in the research.

| Sr. No. | Topic and Details  | No. of<br>lectures<br>assigned | Weightage<br>in % |
|---------|--|--------------------------------|-------------------|
| 1.      | Introduction:<br>Meaning – Objectives – Types – Significance - Research<br>Process – Formulation of Research Problem   | 10                             | 16                |
| 2.      | Research Design and Hypothesis:<br>Meaning of Research Design – Types – Exploratory or<br>formiulative – Descriptive – Diagnostic – Experimental<br>Meaning of Hypothesis- Types – Sources – Characteristics<br>Basic Concepts – Testing of Hypothesis (in regression<br>analysis) | 10                             | 17                |

| 3. | Sample Design:  | 10 | 16 |
|----|---|----|----|
|    | Basic Concepts – Theory – Sampling methods – Probability and non-probability – Sample size  |    |    |
| 4. | Sources and Methods of data Collection:   | 10 | 17 |
|    | Sources of data – Primary and secondary – Important secondary sources of data for Indian Economy  |    |    |
|    | Primary sources of data – methods of collection of primary data – Observation, Interview, Questionnaire, Schedule, Case study.  |    |    |
| 5. | Processing and Analysis of Data:  | 10 | 17 |
|    | Processing operations – problems – Statistical tools –<br>Proportion and Percentage – Measures of Central Tendency –<br>Dispersion – Asymmetry – Relationship – Correlation –<br>Regression – Chi Square Test |    |    |
| 6. | Interpretation of data and Report Writing:  | 10 | 17 |
|    | Meaning and technique of interpretation – Precaution in<br>interpretation – Significance of Report – Steps in Report<br>Writing – Layout of the report - Presentation   |    |    |

- Aglawe Pradeep (2009) Samajik Sanshodhan Paddhati, Nagpur: Prakashan (Marathi)
- Allen, R.G.D. (1974) *Mathematical Analysis for Economists*, Macmillan Press and ELBS, London.
- Bhandarkar, P.L. (2009) Sanshodhan Paddhati, Pune: Dastane Ramchandra & Co. (Marathi)
- Casley D.J. and Lury D.A. (1977) A Statistical Workbook for Social Science Students, Philip Allan, U.K.
- Chiang, A.C. (1986) Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
- Clough Peter, Nutbrown Cathy (2007) *A Student's Guide to Methodology: Justifying Enquiry*, 2nd Ed. Canada: Sage
- Galtung Johann (1969) *Theory and Methods of Social Research*, USA: Columbia University Press.
- Good William J. and Hatt Paul .K.(1981) *Methods in Social Research*, New York: McGraw hill Book Comp.
- Gujarati, Damodar, N. (2010) *Basic Econometrics*, McGraw Hill, New York
- Gupta, S.C. (1993) Fundamental of Applied Statistics, S. Chand & Sons, New Delhi.
- Kumar, Ranjit (2008) *Research Methodology- A Step by Step Guide For Beginners*, Australia: Pearson education.
- Shah, Arvind G. (2007) Samajik Sanshodhan Paddhati, Anada Prakashan, Ahmedabad. (Gujarati)
- Speigal, M.R, (1992) Theory and Problems of Statistics, McGraw Hill Book Co., London.
- Wilkinson and Bhandarkar (1983) *Methodology and Techniques of Social Research*, India: Himalaya publishing House.
- Yates Frank (1981): Sampling Methods for Censuses and Surveys, New York: Macmillan, 1981.

# **Optional Group**

# **INDUSTRIAL ECONOMICS - 506101**

#### PREAMBLE

In the contemporary world with globalization and liberalization more and more attention is being given to industry. This course intends to provide knowledge to the students on the basic issues such as productivity, efficiency, capacity utilization and debates involved in the industrial development of India. The objective is to provide a through knowledge about the economics of industry in a cogent and analytical manner, particularly in the Indian context.

| Sr. No. | Topic and Details  | No. of<br>lectures<br>assigned | Weightage<br>in % |
|---------|--|--------------------------------|-------------------|
| 1.      | Industrial Organisation:<br>Market – Structure – Conduct – Performance – Theories of Product Pricing<br>– Administered prices - Theories of Location – Theories of Growth of<br>firms – Financial Ratios – Methods of Investment Appraisal - Depreciation                                | 10                             | 17                |
| 2.      | <b>Industrial Policy and Development:</b><br>Overview of industrial policy prior to 1991-Industrial policy resolution of<br>1991 and changes thereafter – Trends and pattern in Industrial<br>Development – Regional Development – Problems Industrial sickness and<br>remedial measures | 10                             | 17                |

| 3. | Industrial Finance:  | 10 | 16 |
|----|--|----|----|
|    | Types and Sources of industrial finance, sources and trends of institutional finance (IFCI, SFCs, IDBI, SIDBI) Commercial Banks.   |    |    |
| 4. | <ul> <li>Private, Public and Small Scale Sectors</li> <li>Role, Performance and Problems of Private, Public and small scale Sectors</li> <li>– Privatization and Disinvestment.</li> </ul> | 10 | 16 |
| 5. | <b>External Sector:</b><br>Trends and pattern of FDI in India-Trends and pattern of Indian industry abroad-M&A- Export and import component of Indian industrial sector.                   | 10 | 17 |
| 6. | Selected Industries:<br>Iron and Steel – Cement -Coal - and engineering goods; Cotton textiles-<br>Jute- IT industry.  | 10 | 17 |

- Bagchi, A.and M. Banerjee (Eds.) (1979), Change and Choice in Indian Industry, Bagchi publications, Calcutta.
- Bain, J.S. (1996), Industrial Organization, Cheltanham, U.K.
  - o 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), <u>The Development Process of the Indian Economy</u>, 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), <u>Privatization : Theory and Pratice</u>, 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), <u>The Changing Structure of Industrial Finance in India</u>, 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), <u>India : Macro Economics and Political Economy : 1964-1991</u>, Oxford University Press, New Delhi.
- Kamien, M.T. and N.L. Schwartz (1982), <u>Market Structure and Innovation</u>, Cambridge University Press, Cambridge.
- Kelkar, V.L. and Rao, Bhanoji 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 (15<sup>th</sup> Edition) Himalaya Publishing House, Mumbai.
- Martin, S. (1989), <u>Industrial Economics Economic Analysis and Public Policy</u>, 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), <u>Indian Economy : Agenda for the 21<sup>st</sup> Century</u> (Essays in honour of professor P.R. Brahmananda), Deep and Deep Publications Pvt. Ltd., New Delhi.

#### LABOUR ECONOMICS - 5066102

### Preamble

Issues pertaining to labour markets, employment and unemployment of labour, wages, industrial relations in the globalizing world have become very important for the developing countries. These issues are important for large sections of labour force that is in the organized sector. This paper exposes the students to the theoretical and empirical issues relating to various aspects of labour such as the extent, conditions of work, remuneration and social security

| Sr.<br>No. | Topic and details   | No. of Lectures<br>Assigned | Weightage<br>in % |
|------------|---|-----------------------------|-------------------|
| 1.         | Labour Markets:<br>Features of Labour markets in developed and<br>developing Economies – Demand and Supply<br>of Labour – Role of Migration – Outsourcing<br>- Employment Exchanges   | 10                          | 17                |
| 2.         | Employment - Unemployment:<br>Employment and Development –<br>Measurement of unemployment<br>Nature, types and magnitude of<br>Unemployment – Measures to promote<br>employment – Labour Market rigidity and<br>flexibility | 10                          | 17                |

| 3. | Wages:  | 10 | 16 |
|----|---|----|----|
|    | Wass determination in different merkets   |    |    |
|    | Wage determination in different markets – organized and unorganized - Concepts –  |    |    |
|    | Components of wages - Wage Legislations –   |    |    |
|    | Wage Boards - Profit sharing schemes and  |    |    |
|    | practices including bonus.  |    |    |
|    | -   | 10 | 17 |
| 4. | Industrial Relations, Trade Unions and State:   | 10 | 17 |
|    | Industrial Disputes-Meaning-Causes-Trends-<br>– Industrial Disputes Act, 1947 - Collective<br>bargaining – Workers' participation in<br>management  |    |    |
|    | Trade Unions: Emergence – Growth –<br>Characteristics – Problems – Challenges<br>before the Trade Unions in 21 <sup>st</sup> Century, ILO<br>– decent work and Labour Standards –<br>Labour Flexibility |    |    |
|    | Role of State in Labour Market under  |    |    |
|    | Globalisation – Labour Commissions  |    |    |
| 5. | Social security:  | 10 | 16 |
|    | Components of Social Security – ESIC Act,<br>1948 – Adequacy of security system in<br>developing Countries – Improving Social<br>Security   |    |    |
| б. | Special Categories of workers:  | 10 | 17 |
|    | Women workers-child labour-agricultural workers-bonded labour   |    |    |
|    | Urban informal sectors - trends-wages-  |    |    |
|    | conditions of work-remedial measures  |    |    |
|    |   |    |    |

- Binswanger H.P. and M.R. Rosenzweig (Eds.) (1984), <u>Contractual Arrangements</u>, <u>Employment</u>, and <u>Wages in Rural Labor Markets in Asia</u>, Yale University Press, New Haven.
- Breman, J. (1996), <u>Footloose Labour : Working in India's Informal Economy</u>, Cambridge University Press, Cambridge.
- •
- Das, N. (1960), <u>Unemployment</u>, <u>Full Employment and India</u>, Asia Publishing House, Bombay.
- Datt, G. (1996), <u>Bargaining Power, Wages and Employment : An Analysis of Agricultural</u> <u>Labour Markets in India</u>, Sage Publication, new Delhi.
- Deshpande L.K. and J.C. Sandesara, (Eds.) (1970), <u>Wage Policy and Wages Determination in</u> <u>India</u>, Bombay University Press, Bombay.
- Deshpande, L.K., P.R. Brahmananda, E.A.G. Robinson, (Eds.)(1983), <u>Employment Policy in a Developing Economy</u>, Vol.I & II Macmillan, London.

- Deshpande, S., G. Standing, and L.K. Deshpande, (1998), <u>Labour Flexibility in a Third World</u> <u>Metropolis</u>, Commonwealth Publishers, New Delhi.
- •
- Foster, A.D., and M.R. Rosenberg, (1993), <u>Information Flows and Discrimination in Labour</u> <u>Markets in Rural Areas in Developing Countries</u>, Annual Conference on Development Economics, Work Bank, Washington D.C.
- Hajela, P.D. (1998), <u>Labour Restructuring in India : A Critique of the New Economic</u> <u>Policies</u>, Commonwealth Publishers, New Delhi.
- Hicks, J.R. (1932), <u>The Theory of Wages</u>, Clarendon Press, Oxford.
- Jhabvala, R. and R.K. Subrahmanya (Eds.) (2000). <u>The Unorganised Sector</u> : Work Security and Social Protection, Sage Publications, New Delhi.
- Kannapon S. (1983), <u>Employment Problems and Urban Lobour Markets in Developing</u> <u>Countries</u>, University of Michigan, Ann Arbor.
- Lester, R.A. (1964), <u>Economics of Labour</u>, (2<sup>nd</sup> Edition), Macmillan, New York.
- Madan, B.K. (1977), <u>The Real Wages of Industrial Wrokers in India</u>, Management Development Institute, New Delhi.
- Mazumdar, D. (1989), <u>Micra-economic Issues of Labour Markets in Developing Countries</u> EDI Services Paper No 40, World Bank, Washington D.C.
- McConnell, C.R. and S.L. Brue (1986), <u>Contemporary Labour Economics</u>, McGraw-Hill, New York.
- McCormick, B. and Smith (Eds.) (1968), <u>The Labour Market</u>, Penguin, Harmondsworh.
- MHRD, GOI (1987), <u>Shram Shakti : Report of the National Commission on Self-employed</u> <u>Women and Women Workers in the Informal Sector</u>, Ministry of Human Resources Development, New Delhi.
- Misra, L. (2000), <u>Child Labour in India</u>, Oxford University Press, New Delhi.
- Papola, T.S. and Rodgers, G. (Eds) (1992), <u>Labour Institutions and Economic Development</u> <u>in India</u>, International Institute for Labour Studies, Geneva.
- Papola, T.S. and Sharma, A.N. (Eds.) (1999), <u>Gender and Employment in India</u>, Vikas Publishing House, New Delhi.
- Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.) (1993), <u>Labour, employment and Industrial</u> <u>Relations in India</u>, B.R. Publishing Corporation, New Delhi.
- Punekar, S.D. (1978), <u>Labour Welfare, Trade Unionism and Industrial Relations</u>, Himalaya Publishing House, Bombay.
- Rees, A. (1973), <u>Economics of Work and Pay</u>, Harper and Row, New York.
- Rosehberg M.R. (1988), Labour Markets in Low Income Countries in Chenery, H.B. and T.N. Srinivasan, (Eds.), <u>The Handbook of Development Economics</u>, North-Holland, New York.
- Sen, A.K. (1975), <u>Employment, Technology, and Development</u>, Oxford University Press, New Delhi.
- Sharma, A.N. and A. Kundu (Ed.) (2001), <u>Informal Sector in India : Emerging Perspectives</u> Institute for Human Development, New Delhi.
- Singh, V.B. (ED<u>.) (1970), Industrial Labour in India</u>, Popular Prakashan, Bomaby.
- Solow, R.M. (1990), Labour Market as an Institution, Blackwell, London.
- Venkata Ratnam, C.S. (2001), <u>Globalization and Labour-Management Relations : Dynamics</u> of Change, Sage Publication/ Response Books, New Delhi.

#### MATHEMATICAL ECONOMICS: 506103

#### PREAMBLE

This course is designed to equip students to understand the economic concepts and theories which use mathematical tools and techniques to refine the verbal logic. The use of calculus has permitted formulation of economic problems in multivariable mode and yield valuable insight about optimizing human behavior. This course has been designed to include various mathematical techniques/methods/models related to the different parts of economic theory like consumer theory, theory of production, pricing, trade cycles, growth models, etc. The paper covers important aspects of microeconomics; macroeconomics and development theory and the various modules have been accordingly designed.

| Sr. | Topic and Details | No. of   | Weightage |
|-----|-------------------|----------|-----------|
|     |                   | lectures |           |

| No. |  | assigned | in % |
|-----|--|----------|------|
| 1.  | Differentiation and partial differentiation:Concept and different types of functions, Rules of derivatives for one<br>variable case, logarithmic and exponential functions, interpretation of<br>revenue, cost, demand and supply functions, elasticity and its types<br>with illustrations, maxima and minima for one and several variables,<br>Partial derivatives: Rules of partial derivatives with illustrations,<br>Total differentiation. | 12       | 20   |
| 2.  | Integral calculus:<br>Techniques of definite and indefinite integration, consumer's surplus<br>and producer's surplus with illustrations using definite integrals<br>Lorenz curve inequalities and Gini coefficients with illustrations,<br>consumption functions, investment functions, cost functions obtained<br>using integration,   | 12       | 20   |
| 3.  | Matrix Algebra:Rules for addition, subtraction and multiplication of matrices, types<br>of matrices, Rank of matrix, transpose of a matrix and its properties.<br>Determinants: properties, inverse of matrix, Gauss Elimination and<br>co-factor methods for solving linear equations, Cramer's rule and its<br>application.  | 12       | 20   |
| 4.  | Demand analysis and Theory of production:Ordinal utility maximization, Order conditions, nature of utility<br>functions, ordinary and compensated demand functions, Rate of<br>commodity substitution, equation of budget line, Optimal quantity<br>combination using utility index and budget constraint extended from<br>  | 12       | 20   |
| 5.  | Market equilibrium:Price determination of the firm and industry in short run, shut down<br>point with illustrations, competitive equilibrium under taxation,<br>Equilibrium under simple monopoly, monopoly equilibrium after<br>lump sum tax and specific taxes levied, Equilibrium under price<br>discrimination with illustrations.Duopoly Solutions under Cournot model and cartels, Solution under<br>market sharing model.                 | 12       | 20   |

- 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 Jessey.
- 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. (2010), 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: 506104**

#### PREAMBLE

The objective of this paper is to equip the students with basic theory of econometrics and relevant applications of the methods. The topics covered in the course include various problems faced in estimation of both single equations and simultaneous equations models. The course also covers various econometric methods applicable to different topics in economics and those needed for applied economic research. An introductory module on multivariate methods has also been included in the course which constitutes an important tool for analysis in multivariable data in development related studies.

| Sr. | Topic and Details  | No. of   | Weightage |
|-----|--|----------|-----------|
| No. |  | lectures | in %      |
|     |  | assigned |           |
| 1.  | Two variable Linear Regression model:  | 12       | 20        |
|     | Concepts of population and Sample Regression functions, Assumptions<br>of the method of least squares, OLS estimators of regression<br>coefficients, properties, mean and variance of coefficients and the<br>random term, Properties of BLUE and Gauss-Markov theorem,<br>coefficient of determination. |          |           |
| 2.  | <b>Classical Linear Regression model:</b><br>The probability distribution of stochastic term U <i>i</i> , its normality  | 12       | 20        |
|     | distribution, concepts of homoscedasticity, heteroscedasticity,<br>autocorrelation and multicolinearity, Interval estimation and confidence  |          |           |

|    | interval for the least square estimators, testing the regression coefficients using t-test and Z-test.  |    |    |
|----|---|----|----|
| 3. | Linear Programming and Transportation Problems:<br>Formulation of LPP of Minimization and maximization types,<br>Generalization of LPP, Graphical solution to LPP of Minimization and<br>maximization with and without mixed constraints, Simplex method for<br>solving of maximization problems, Duality in LPP, symmetry between<br>primal and dual with mixed constraints, Transportation problem:<br>Statement of the problem, solution of transportation problem by North-<br>West corner rule, least cost method, VAM method. | 12 | 20 |
| 4. | Input-out analysis:<br>Open and closed input-output analyses, technology coefficient matrix for<br>'n' sectors and determination of equilibrium level of output by the inter-<br>consistency model, Illustrative problems for two and three sector models.  | 12 | 20 |
| 5. | Game theory:<br>Two person zero-sum game, pure and mixed strategy, game with and<br>without saddle point, Nash equilibrium, constant and non-constant<br>games, solution to games with mixed strategy through graphical solution.   | 12 | 20 |

- 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 Wesely 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, Inputoutput 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. (2010), 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- 506105

#### PREAMBLE

The main objectives of this paper are to gain a clear understanding of demographic concepts, theories, and processes to make students aware of the importance of population in economic development. The

paper also enlightens the student on the quantitative and qualitative aspects and characteristics of the population through various demographic techniques. The issues pertaining to sex ratio, increasing urbanization and components of urbanization like migration and natural increase, changing age structure which are of contemporary importance are also the focus of this paper. The study of this paper is expected to enable the student to understand the population dynamics that leads to the evolution of economic and population policies

| Sr.<br>No. | Topic and Details   | No. of Lectures<br>Assigned | Weightage<br>in |
|------------|---|-----------------------------|-----------------|
| 1          | Introduction and Sources of Population data:  | 10                          | 18              |
|            | Scope and relevance of Demography- Demographic Analysis and<br>Population Studies- Demography and other disciplines   |                             |                 |
|            | Demographic data base – Sources of Population data in India -<br>Population Census – Vital Registration – Sample Registration<br>System and Large Scale Demographic Surveys – National Family<br>Health Surveys (NFHS), District level Household Surveys (DLHS) -<br>Quality of Demographic data .  |                             |                 |
| 2.         | Population Size and Growth:   | 05                          | 08              |
|            | Population Size and Trends in the World population-Trends in population in India, states in India   |                             |                 |
|            | Components of Population Growth-Demographic Balancing<br>Equation –Natural Growth - Net Migration   |                             |                 |
|            | Population Growth Rate: Ratios and rates- Linear Growth Rate,<br>Geometric Growth Rate, Exponential Growth Rate   |                             |                 |
| 3          | Population Processes  | 15                          | 25              |
|            | Basic Measures of Mortality - Crude Death Rate, Age Specific<br>Death Rate, Standardization of Death Rates, Life Table- Life<br>Expectancy, Special measures- Infant Mortality Rates, Maternal<br>Mortality Rates, Trends in Mortality and Infant mortality and<br>Maternal Mortality Rates in India- factors influencing Mortality                             |                             |                 |
|            | Basic Measures of Fertility – Period and Cohort Measures – Child<br>Woman Ratio, Crude Birth Rate, General Fertility Rate, Age<br>Specific Fertility Rate, Total Fertility Rate, Gross Reproduction<br>Rate, Net Reproduction Rates- Cohort Rates – Trends in Fertility in<br>India- Bongaart's models of fertility-socio economic determinants of<br>fertility |                             |                 |
|            | Nuptiality Analysis –Mean Age at Marriage, Singulate Mean Age at<br>Marriage – Indian Experience  |                             |                 |
|            | Migration- Types of Migration, Measures of Migration-Trends of Migration  |                             |                 |
|            | Theories of migration   |                             |                 |
|            | Demographic transition- India's experience  |                             |                 |
|            |   |                             |                 |

| 4. | Composition and characteristics of population   | 13 | 22 |
|----|---|----|----|
|    | Population Composition by age and sex-  |    |    |
|    | mean age, median age, dependency ratio, child dependency ratio, old age dependency ratio, population ageing   |    |    |
|    | Age pyramids- determinants of age structure,  |    |    |
|    | Age pyramids in India- demographic dividend- demographic social<br>and economic implications of changing age structure  |    |    |
|    | Population Ageing and its socio-economic consequences   |    |    |
|    | Sex structure- sex ratio- sex ratio of child population - factors determining sex ratio   |    |    |
|    | Sex ratio imbalance in India and future scenario- Factors responsible<br>for declining sex ratio in India   |    |    |
|    | Characteristics of population   |    |    |
|    | Religion, marital status, education, economic status- employments and occupation  |    |    |
| 5  | Population Distribution and Urbanization:   | 05 | 07 |
|    | Geographic Distribution of the World Population – Urbanization –<br>Growth and distribution of rural and urban population in developed<br>and developing countries, level of urbanization and rate of<br>urbanization – Urbanization in India, components of urban growth -<br>determents and consequences of urbanization. |    |    |
| 6  | Population and Development  | 08 | 13 |
|    | Theories of population: Malthusian theory, Marx's views on population, Boserup's thesis   |    |    |
|    | Contemporary debates on population, environment and development-population and sustainable development  |    |    |
|    | Gender issues in the population, environment, development   |    |    |
|    | Demographic dimension of well being   |    |    |
| 7. | Population Policy and programmes in India   | 04 | 07 |
|    | Evolution of Population Policies in India – The shift in population control to family welfare, to women empowerment:  |    |    |
|    | Role of ICPD  |    |    |
|    | Evolution of population programmes-Family planning programmes,<br>Reproductive Health Programme, National Rural Health Programme  |    |    |
|    | Family Planning Strategies and their outcomes : Reproductive<br>Health, maternal nutrition and child health policies, population and<br>strategies for human development of different social groups: Social<br>impact of new reproductive technologies and their regulation –The  |    |    |

| New Population Policy, Tasks before the National Population |  |
|---|--|
| Commission.   |  |

#### **Books and Reports**

- Bhende Asha, kanitkar Tara (2001). *Principles of Population Studies*. Himalaya Publishing House.
- Shrrinivasan K.(1998). Basic Demographic techniques and Applications. Sage Publications.
- Sivaramkrisnan K.C. kundu Amitabh and Sing N. *A handbook on Urbanisation in India*. Oxford University Press
- Shyrock S, Siegel JS, Stockwell EG.(1976). *The Methods and Materials of Demography*. Academic Press. 1976.
- UNFPA. (2007). Urbanization: The Challenge and the Promise. State of World
- United Nations (2001). World Population Monitoring: Population Environment and Development.
- <u>www.censusindia.net</u>

## Articles/ Papers

- 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
- Guilmoto Christophe Z "Characteristics of Sex Imbalance in India and Future Scenario" <u>www.unfpa.org/gender/case\_studies.htm</u>

- Kulkarni P.M. Shaping India's Population Policy and Programme: Internal Factors and External Influences, **Artha Vijnana, LI (1)** 2009: pp.12-38.
- Kulkarni P.M. "Towards an Explanation of India's Feirtility Transition"-George Simmons Memorial Lecture November 2011 <u>www.iasp.ac.in/pdf/simmons%20memorial%20Lecture.pdf</u>
- Kulkarni P.M. "Issues of Data Requirements in the context of the Demographic Transition in India" Country Study paper for India <u>www.cwsc2011.gov.in/papers/demographic\_transition/paper\_4/pdf</u>

# AGRICULTURAL ECONOMICS - 506106

#### PREAMBLE

The objective of this course is to provide a detailed treatment of issues in agricultural economics to those intending to specialize in this area; its objective is to familiarize students with policy issues that are relevant to Indian agricultural economics and enable them to analyze the issues, using basic micro-economic concepts.

| Sr. | Topic and Details | No. of   | Weightage |
|-----|-------------------|----------|-----------|
| No. |                   | Lectures | in %      |
|     |                   | Assigned |           |

| 1 | Agriculture and Economic Development:<br>Nature and Scope of agriculture economics, Role of agriculture in<br>economic development, Interdependences between agriculture and<br>Industry, Models of interaction between agriculture and rest of the<br>economy.   | 15 | 25 |
|---|---|----|----|
| 2 | Agriculture Production and productivity:<br>Economics of agriculture production, Production function analysis<br>in agriculture, Size of farms and productivity, Size of the farm and<br>profitability, Farm budgeting and cost concepts, ; Land reform<br>measure and performance; Women and land reforms, Problems of<br>marginal and small farmers.  | 15 | 25 |
| 3 | Agriculture Finance and agriculture prices<br>Characteristics and sources of agricultural credit- Institutional and<br>non institutional, Reorganization of agriculture credit- Co-<br>operative, Regional rural banks, and NABARD. Behavior of<br>agricultural prices- Cobweb Model, Term of trade between<br>agriculture and non agriculture. Agricultural price policy-\ and<br>evaluation.  | 15 | 25 |
| 4 | Agricultural Growth and External sector<br>Agricultural development in India under the plans,Recent trends in<br>agricultural growth in India, Inter regional variations in growth of<br>output and productivity; Cropping pattern shifts, Role of public<br>investment and capital formation in Indian agriculture; Strategy of<br>agricultural development. New economic policy and Indian<br>agriculture. Role of MNCs, Globalization of Indian economy and<br>problems and prospects of Indian agriculture. WTO and Indian<br>agriculture | 15 | 25 |

- Appu, P.S. (1996), Land Performs in India, Vikas, New Delhi.
- Bardhan, P. (1984), <u>Land, Labour and Rural Poverty</u>, Oxford University Press, New Delhi.
- Bhaduri, A. (1984), <u>The Economic Structure of Backward Agriculture</u>, Macmillan, Delhi.
- Bhalla, G.S. (1994), Economic Liberalisation and Indian Agriculture, Institute for Studies in Industrial Development, New Delhi.
- Bhardwaj, K.(1974), <u>Production Conditions is Indian Agriculture</u>, Cambridge University Press, Cambridge.
- Bilgrami, S.A.R. (1996), <u>Agricultural Economics, Himalya Publishing House</u>, Delhi.
- Brahmanada,P.R., B.K. Narayan and A. Kalappa (Ed.) (1987), <u>Dimensions of Rural</u> <u>Development in India</u>, Himalaya Publishing House, New Delhi.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.) (1987), <u>The Development Process of the</u> <u>Indian Economy</u>, Himalaya Publishing House, Bombay.
- Chadha , G.K. and A.N. Sharma (1997), <u>Growth, Employment and Poverty : Change and</u> <u>Continuity in Rural India</u>, Vikas Publishing House, New Delhi.
- Chakravarty, S. (1987), <u>Development Planning : The Indian Experience</u>, Oxford University Press, New Delhi.
- Chaudhary, P. (1972), <u>Readings in Indian Agricultural Development</u>, George Allen & Unwin, London.
- Chelliah, Raja J. and R. Sudarshan (1999), <u>Income, Poverty and Beyond : Human</u> <u>Development in India</u>, Social Science Press, New Delhi.
- Dantwala, M.L. (1996), <u>Dilemmas of Growth : The Indian Experience</u>, Sage Publications, New Delhi.
- Dantwala, M.L. et. al (1991), <u>Indian Agricultural Development Since Independence</u>, Oxford & IBH, New Delhi.
- Dantwala,M.L. (1960), <u>Dilemmas of Growth : The Indian Experience</u>, Sage Publications, New Delhi.
- Desai, G. and A. Vaidyanathan (Eds.) (1995), <u>Strategic Issues in Future Growth of Fertilizer</u> <u>Use in India</u>, Macmillan, New Delhi.

- Dhawan, B.D. (1988), <u>Irrigation in India's Agricultural Development</u>, Sage Publications, New Delhi.
- Ghatak, S. and K, Ingerscent (1984), <u>Agriculture and Economic Development</u>, Select books, New Delhi.
- Government of India (1976), <u>Report of the National Commission on Agriculture</u>, New Delhi.
- Government of India, <u>Economic Survey</u> (Annual), New Delhi.
- Government of India, <u>Five Year Plans</u>, New Delhi.
- Gulati, A. and T. Kelly (1999), <u>Trade Liberalisation and Indian Agriculture</u>, Oxford University Press, New Delhi.
- Haque, T. and A.S. Sirohi (1986), <u>Agrarian Reforms and Institutional Changes in India</u>, Concept Publishing Company, Delhi.
- Jodhar N. (Ed.) (1996), <u>Challenges to Indian Banking</u>, 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), <u>Agriculture Price Policy in India</u>, Allied Publishers, New Delhi.
- Kaur, R. (1975), <u>Agricultural Price Policy in Economic Development</u>, Kalyani Publishers, Delhi.
- Kausro, A.M. (1973), <u>The Economics of Land Reforms and Farm Size in India</u>, Macmillan, New Delhi.
- Meier, G.M. (1995), <u>Leading Issues in Economic Development</u>, 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), <u>Poverty and Employment</u>, 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), <u>Essays in the Commercialization of India Agriculture</u>, 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), <u>Agricultural Growth, Rural Poverty and Environmental</u> <u>Degradation in India</u>, Oxford University Press, New Delhi.
- Reserve Bank of India (1989), <u>Report of the Agricultural Credit Review Committee</u>, Bombay.
- Reserve Bank of India, <u>Report on Currency and Finance</u> (Annual), Mumbai.
- Rudra, A. (1982), <u>Indian Agricultural Economics</u> : Myths and Reality, Allied Publishers, New Delhi.
- Saini, G.R. (1979), <u>Farm Size, Resource Use Efficiency and income Distribution</u>, Allied Publishers, New Delhi.
- Soni, R.N. (1995), <u>Leading Issues in Agricultural Economics</u>, 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), <u>Intersectoral Relationship in a Developing Economy</u>. Academic Foundation, Delhi.
- Uppai, J.S. (Ed.) (1987), <u>India's Economic Problem An Analytical Approach</u>, Tata McGraw Hill, New Delhi.
- Vaidyananthan, A. (1995), <u>The Indian Economy : Crisis, Response and Prospsects</u>, Orient Longmans, New Delhi.
- Visaria, P. and R. Basant (1994), <u>Non-Agricultural Employment in India : Trends and</u> <u>Prospects</u>, Sage Publications, New Delhi.
- Wanmali S. and C. Ramasamy (Eds.) (1995), <u>Developing Rural Infrastructure</u>, Macmillan New Delhi.

# ECONOMICS OF GENDER AND DEVELOPMENT - 506107

#### PREAMBLE

This course would provide students an understanding of the nature of the economic role of women and their contribution to the national economy on the basis of a scientific and non-sexist analysis. The modules incorporated in this course provide an analysis of issues at the theoretical level and also with regard to specificity of issues prevailing in the Indian context.

| Sr. No. | Topic and Details   | No. of lectures<br>assigned | Weightage<br>in % |
|---------|---|-----------------------------|-------------------|
| 1.      | Introduction to Gender Studies:<br>Importance of Women's Studies<br>Concepts- 'Sex' Versus 'Gender', Oppression and<br>Exploitation, Socialisation, Social Construction,<br>Deconstruction, Patriarchy, Trends in Feminism, Gender<br>Based Division of labour<br>Economic Basis and Functioning of Patriarchy and Matrilineal<br>societies, structures and systems<br>Gender and the Process of Economic Development: Feminist<br>Criticism of Development Indices and WID-WAD-GAD,<br>Human Development Approach, Gender and Development<br>Indices- Mainstreaming Gender into Development Policies,<br>Gender Planning Techniques and Gender Sensitive<br>Governance, Paradigm Shifts from 'Women's Wellbeing' to<br>'Women's Empowerment'- Addressing Practical Gender<br>Needs and Strategic Gender Needs of Women | 10                          | 17                |
| 2.      | Women: Demographic Aspects:<br>Age structure, Mortality rates and Sex ratio.<br>Causes of Declining Sex Ratios and Fertility Rates in LDCs with   | 10                          | 17                |

|    | Crossial Deference to India   |    |     |
|----|---|----|-----|
|    | Special Reference to India  |    |     |
|    | Theories and Measurement of Fertility and Its Control.  |    |     |
|    | Gender and Population Control Policy with Special Reference to India.   |    |     |
|    | Reproductive Rights   |    |     |
|    | Women, Health and Nutrition   |    |     |
|    | Women and Education   |    |     |
|    | Economic Status of Women- Work Participation Rate of  |    |     |
|    | women   |    |     |
| 3. |   | 10 | 17  |
|    | Women in Decision Making:   |    |     |
|    | Factors Affecting Decision-making by Women  |    |     |
|    | Role of Voluntary Organizations, Self-help Groups-Women's   |    |     |
|    | Leadership inMicro Finance  |    |     |
|    | Review of Legislation for Women's Entitlements, Protection of<br>Property Rights and Social Security.                       |    |     |
|    | Schemes for Safety-net for Women.   |    |     |
|    | Social Structure and Social Security of Women - Entitlements,   |    |     |
|    | Access to Control over Economic Resources, Ensuring Economic  |    |     |
|    | Independence and Risk Coverage.   |    |     |
|    | Power of Decision-Making at Household Levels, Class and   |    |     |
|    | Community Levels- Role of Kinship in Allocation of Domestic and Social Resources  |    |     |
|    | Economic Status of women and its Effect on work Participation   |    |     |
|    | Rate, Income Level, Health and Education in Developing Countries  |    |     |
|    | and India.  |    |     |
|    | Democratic decentralization and Women's Empowerment in India  |    |     |
| 4. | Conceptualization of Women's Work:  | 10 | 16  |
|    | Concept and Analysis of Women's Work-Paid and Unpaid Work-  |    |     |
|    | Valuation of Productive and Unproductive Work Visible and   |    |     |
|    | Invisible Works: Visibility of Women in Statistics and Indicators-  |    |     |
|    | Economically Productive and Socially Productive Work<br>Economic Status, Private Property and Participation of Women in     |    |     |
|    | Pre-industrial and Industrial societies, Women's Contribution to  |    |     |
|    | National Income.  |    |     |
|    | Women and Labour Markets- Factors Affecting Women's Entry in  |    |     |
|    | Labour Market-Supply and Demand of Women's Labour in the  |    |     |
|    | Developed and Developing Countries  |    |     |
|    | Work participation of women in agriculture and non-agricultural activities (with  |    |     |
|    | reference to India) - Work Efficiency and Women   |    |     |
|    | Women in the Informal Sector, Small Scale and Cottage Industries-   |    |     |
|    | Women in the Organised and Service Sector   |    |     |
|    | Wage Differentials in Female Activities- Determinants of Wage   |    |     |
|    | Differentials: Gender, Education, Skill, Productivity, Efficiency,  |    |     |
|    | Opportunities.<br>Structures of Wages Across Pegions and Economic Sectors   |    |     |
| 5. | Structures of Wages Across Regions and Economic Sectors           Women,         Technology         and         Environment | 10 | 17  |
|    | Impact of Technological Development and Modernisation on  | 10 | ± / |
|    | Women's Work Participation  |    |     |
|    | Industrial Technologies and Women   |    |     |
|    | -   |    |     |
|    | Agricultural Technologies-Mechanisation, High Yielding Varieties-Green Revolution   |    |     |
|    | Horticulture and Floriculture   |    |     |
|    |   |    |     |
|    | Animal Husbandry, Dairy Development   |    |     |
|    | Poultry Development   |    |     |

|    | Women in Sericulture   |    |    |
|----|--|----|----|
|    | Women in the Fisheries   |    |    |
|    | Female Activities and Ecological and Environmental             |    |    |
|    | Concerns-The Two Way Relationships                             |    |    |
|    | Role of New Technologies for Helping women                     |    |    |
|    | Provision of Information and training for Simple Harvesting of |    |    |
|    | Economic Services  |    |    |
| 6. | Social Security and Social Protection for Women                | 10 | 16 |
|    | Social Security of Women                                       |    |    |
|    | Entitlements, Ensuring Economic Independence and Risk          |    |    |
|    | Coverage   |    |    |
|    | Access to Credit and Insurance Markets                         |    |    |
|    | Role of Voluntary Organisations and SHGs in Providing          |    |    |
|    | Social Security.   |    |    |
|    | Labour Market Biases and Gender Discrimination                 |    |    |
|    | Effectiveness of Collective Bargaining                         |    |    |
|    | Review of Legislations for women's Entitlements                |    |    |
|    | Protection of Property Rights and Social Security              |    |    |
|    | Schemes for Safety Net for Women                               |    |    |
|    | Need for Women Workers' Union                                  |    |    |
|    | Affirmative Action for women and Improvement in Their          |    |    |
|    | Economic and Social Status                                     |    |    |
|    |  |    |    |
|    |  |    |    |

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

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

- Venkateswaran, S. (1995), Environment, Development and Gender Gap; Sage Publications, New Delhi.
- Wazir, R, (2000), <u>The Gender Gap in Basic Education : NGOs as change Agents</u>, Sage Publications, New Delhi.
- Young, K., et. al. (Eds.) (1987), <u>Serving Two Masters</u>, Routledge & Kegan Paul, London.

#### **FINANCIAL INSTITUTIONS AND MARKETS - 506108**

#### PREAMBLE

The positive and significant role of financial institutions in the process of growth and development has been very well recognized in the literature and indeed has become more important during the last two decades as the financial systems of different countries have become integrated in the process of globalization. India is no exception and has taken far reaching measures since 1991 in this direction. It is, therefore, essential that the student of economics should be well conversant with the theory and practice of different financial institutions and markets to understand and analyse the interconnection between the monetary forces and real forces, their developmental role and limitations in shaping and influencing the monetary and related policies both at the national and international levels.

| Sr.<br>No. | Topic and Details   | No. of<br>Lectures<br>Assigned | Weightage<br>in % |
|------------|---|--------------------------------|-------------------|
| 1          | Nature and Role of Financial System :<br>Money and finance – Money and near-money – Financial<br>intermediation and financial intermediaries – The structure of the<br>financial system – Functions of the financial sector – Role of<br>financial system in economic development, Indicators of financial<br>development – Criteria to evaluate assets; Risk and financial<br>assets, types of risk – Valuation of Securities, Financial<br>development Ratios ;( Finance ratio, Financial Inter-relation<br>Ratio, Intermediation Ratio). | 15                             | 25                |

#### FINANCIAL INSTITUTION AND MARKETS

| <ul> <li>Financial institutions- Banks- Central and commercial banks, non-<br/>bank financial institutions-financial intermediaries and non-<br/>intermediaries- Development banks – role and functions<br/>Regulatory role of central bank- Function of Central Bank – The<br/>aims and objectives of the monetary policy in developed and<br/>developing countries – Instruments of monetary policy-<br/>relationship between monetary policy and financial markets<br/>Productivity and efficiency of banking system-Financial sector<br/>reforms in India</li> <li>Financial Markets:<br/>Role and Structure of money market and capital market – Call<br/>money market, Treasury bill market, Commercial bill market<br/>including commercial paper and certificate of deposits, Discount<br/>market – Government securities market – Markets for derivatives :<br/>futures and options, and other derivatives: types, uses and pricing<br/>of derivatives, SEBI : its impact on the working of capital market<br/>in India.</li> <li>International Financial Markets:<br/>Nature, organization and participants – Exchange rates –<br/>devaluation, and depreciation – Risk hedging and futures in</li> </ul> | 15 | 25 |
|---|----|----|
| <ul> <li>reforms in India</li> <li>Financial Markets:         <ul> <li>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, SEBI : its impact on the working of capital market in India.</li> </ul> </li> <li>International Financial Markets:         <ul> <li>Nature, organization and participants – Exchange rates – devaluation, and depreciation – Risk hedging and futures in</li> </ul> </li> </ul>   |    |    |
| <ul> <li>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, SEBI : its impact on the working of capital market in India.</li> <li>4 International Financial Markets:<br/>Nature, organization and participants – Exchange rates – devaluation, and depreciation – Risk hedging and futures in</li> </ul>  |    |    |
| Nature, organization and participants – Exchange rates – devaluation, and depreciation – Risk hedging and futures in  | 15 | 25 |
| exchange rates –Lending operation of World bank and its affiliates<br>– Working of IDA and IFC. Asian Development bank and its<br>lending activities; Asian Development Bank and India. Euro-<br>dollar and Euro-Currency markets: their developmental role and<br>regulation at the International level.   | 15 | 25 |

- Bhole, L.M. and Mahakud Jitendra (2009), <u>Financial Institutions and Market:</u> <u>Structure,Growth and Innovations</u>. Tata McGraw Hill Company Ltd., New Delhi.
- Bhole, L.M. (2000), <u>Indian Financial System</u>, Chaugh Publications, Allahabad.
- Frank J Fabozzi, Franco Modigliani, Frank J Jones and Michael G. Ferri, 3<sup>rd</sup>edition Foundations of Financial Markets and Institutions, Pearson Education, New Delhi
- Fredric S. Mishkin and Stanley G. Eakins,6<sup>th</sup> edition <u>Financial Markets and</u> <u>Institutions</u>, Pearson Education, Noida, New Delhi.
- Jadhav Narendra (1994). Monetary Economics for India.. Macmillan India Ltd
- Prasad, K.N. (2001), <u>Development of India's Financial System</u>, Sarup & Sons, New Delhi.
- R.B.I. (1985), <u>Report of The Committee to Review the Working of the Monetary</u> System (Chakravarty Committee), Bombay
- RBI (2010) Report on Currency and Finance 2008-09
- RBI (2008) Report on Currency and Finance, 2006-08 Vol I Chapter III, Vol II Chapter IX
- RBI (2007) Report on Currency and Finance, 2005-06
- R.B.I. (1995), <u>Report of the Working Group on Foreign Exchange Market in the India</u>, (Sodhani Group), Mumbai.
   Rangaranjan, C. (1999), <u>Indian Economics : Essays on Money and Finance</u>, UBS Publication, New Delhi.

## **ECONOMICS OF INFRASTRUCTURE - 506109**

## PREAMBLE

The important role infrastructure plays in a country's development need not be reiterated. In case of developing countries, lack of adequate infrastructure has been held as a major obstacle to growth. Of the various categories of infrastructure, the category of social overhead capital has gained particular prominence. The contents of the paper 'Economics of Infrastructure' exposes the student wholly to issues involved in development of infrastructure in developing countries like India.

| Sr.<br>No | Topic and Details   | Number<br>of<br>Lectures<br>assigned | Weighta<br>ge in % |
|-----------|---|--------------------------------------|--------------------|
| 1.        | Introduction:   | 12                                   | 20                 |
|           | Infrastructure and Economic Development- Infrastructure as a public<br>good: Physical and Social Infrastructure: Rationale of State<br>intervention- Special characteristics of public utilities- Approaches to<br>social infrastructure- Human resource development and human<br>development.  |                                      |                    |
| 2.        | Transport and Communication:  | 12                                   | 20                 |
|           | Characteristics of demand and supply-The structure of Transport Costs.<br>Demand for Transport. Principle of Pricing. Special Problems of<br>Individuals Modes of Transport; Characteristics and problems of f<br>Postal Services- Criteria for Fixation of Postal Rates –<br>Telecommunication- Rate-making in Telephone Utilities.  |                                      |                    |
|           | Energy, Electricity, Gas, and Water supply:   | 12                                   | 20                 |
| 3.        | Energy and Economic Development, Energy Conservation, Renewable<br>and Non-conventional Sources of Energy. Bulk Supply and pricing of<br>Electricity. The Relative Economics of Thermal, Hydel and Nuclear<br>Power Plants. The Case for a National Power Grid. Financing Water<br>Utilities. Urban and Rural Water Supply-The concept of user charge,<br>The Exploitation of Natural Gas. Pricing Problems.  |                                      |                    |
| 4.        | Economics of Education:   | 12                                   | 20                 |
|           | Special characteristics of education, Education and Economic Growth.<br>Approaches to Educational Planning, Social Demand, Rate of Return –<br>Private and social rates of return and Manpower Balance Approaches.<br>The Case for Universal, Free, Primary Education; Structure of higher<br>education and problems of its financing in India; Human Resources<br>and Human Capital Development. The issues in education policy  |                                      |                    |
| 5.        | Economics of Health:  | 12                                   | 20                 |
|           | Special characteristics of health, Health dimensions of development;<br>Determinants of Health – Poverty, malnutrition, illiteracy and lack of<br>information; Economic dimensions of health care – Demand and<br>supply of health care ; Financing of health care and resource<br>constraints; Disease burden and its measurement- Planning of health<br>care in India, Inequalities in health – class and gender perspectives;<br>Institutional issues in health care delivery. |                                      |                    |

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

#### **PUBLIC ECONOMICS - 506110**

#### PREAMBLE

Role and functions of the Government in an economy have been changing with the passage of time. The term 'Public Finance' has traditionally been applied to the package of those policies and operations which involve the use of tax and expenditure measures while budgetary policy is an important part to understand the basic problems of use of resources, distribution of income, etc. There are vast array of fiscal institutions – tax systems, expenditure programmes, budgetary procedures, stabilization instruments, debt issues, levels of government, etc., which raise a spectrum of issues arising from the operation of these institutions. Further, the existence of externalities, concern for adjustment in the distribution of income and wealth, etc. require political processes for their solution in a manner which combines individual freedom and justice. This paper combines a thorough understanding of fiscal institutions with a careful analysis of the issues which underline budgetary policies in general and Indian experience in particular.

| Serial<br>No. | Topic and details  | No. of<br>lectures<br>Assigned | Weightage<br>in % |
|---------------|--|--------------------------------|-------------------|
| 1             | Nature and scope of public economics. Role of government in<br>mixed economy, private, merit and public goods, structure and<br>growth of public expenditure, reforms in expenditure, public<br>goods and market failure | 12                             | 20                |
| 2             | Theory of incidence and its types, division of incidence of tax in<br>proportion to elasticity of demand and supply, Benefit principle<br>and ability to pay approaches to taxation, meaning of optimal                  | 12                             | 20                |

#### **PUBLIC ECONOMICS -I**

|   | taxation, excess burden of indirect taxes over direct tax.   |    |    |
|---|--|----|----|
| 3 | Public debt: meaning, sources of public debt, effects of public<br>debt, burden of debt, principles of debt repayment and<br>management. Objectives of fiscal policy: full-employment, anti-<br>inflation and economic growth, redistribution of income and<br>wealth, Compensatory finance, measures of resource<br>mobilization and their impact | 12 | 20 |
| 4 | Public budget: kinds of Public budget, zero-base budgeting,<br>different concepts of budget deficits, trends in revenue and<br>expenditure of government of India  | 12 | 20 |
| 5 | Fiscal federalism in India, vertical and horizontal imbalance,<br>constitutional provisions of transfer of resources through<br>Finance Commission, direct and indirect taxes and non-tax<br>revenues, reforms in direct and indirect taxes, fiscal crisis and<br>fiscal reforms in India.   | 12 | 20 |

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

- Duff, L. (1997), <u>Government and Market</u>, Orient Longman, New Delhi.
- Ferguson, J.M.(Ed.) (1964), <u>Public Debt and Future Generations</u>, North Carolina University Press, Chapel Hill.
- Friedman, A. (1986), <u>Welfare Economics and Social Choice Theory</u>, Martins Nijhoff, Boston.
- Gandhi, V.P.(1970), <u>Some Aspects of India's Tax Structure</u>, Vora and Company, Bombay.
- Glennester, H. and J. Hills (1998), <u>The State of Welfare : The Economic and Social Spending</u>, Oxford University Press, London.
- Goode, R.(1986), <u>Government Finance in Developing Countries</u>, Tata McGraw Hill, New Delhi.
- Government of India (1992), <u>Reports of the Tax Reforms Committee Interim and Final</u>
- Grivastava, D.K.(Ed.) (2000), <u>Fiscal Federalism in India</u>, Har-Anand Publications Ltd., New Delhi.
- Gulati, I.S. (1979), <u>Centre State Financial Relations : An Assessment of the role of Finance</u> <u>Commission</u>, M.S.university of Baroda, Baroda.
- Herber, B.P. (1967), <u>Modern Public Finance</u>, Richard D. Irwin, Homewood.
- Houghton, J.M. (1970), <u>The Public Finance: Selected Readings</u>, Penguin, Harmondsworth.
- Jain, A.K. (1975), <u>Taxation of Income in India</u>, Macmillan Company of India Ltd., New Delhi.
- Jain, I. (1988), <u>Resource Mobilization and Fiscal Policy in India</u>, deep & Deep Publications, New Delhi.
- Jha, R., (1998), <u>Modern Public Economics</u>, Routledge, London.
- Kaldor, N. (1955), <u>An Expenditure Tax</u>, George Allen and Unwin, London.
- Kumar, A. (1999), The Black Economy in India, Penguin, Harmondsworth.
- Lakdawala, D.T.(1967), <u>Union State Financial Relations</u>, Lalwani Publishing House, Mumbai.
- Menutt, P. (1996), <u>The Economics of Public Choice</u>, Edward Elgar, U.K.
- Mishan, E.J. (1982), <u>Cost-Benefit Analysis : An Informl Introduction</u>, George Allen and Unwin, London.
- Mueller, D.C. (1979), <u>Public Choice</u>, Cambridge University Press, Cambridge.
- Mundle, S. (1999), <u>Public Finance Policy : Issues for India</u>, Oxford University Press, New Delhi.
- Musgrave, R.A. (1977), <u>Essays in Fiscal Federalism</u>, Greenwood West Port.
- Musgrave, R.A. and C. Shoup (Eds) (1970), <u>Readings in the Economics of Taxation</u>, 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), <u>The Theory of Public Finance</u>, McGraw Hill, Kogakhusa, Tokyo.
- Oates, W.E. (1972). <u>Fiscal Federalism</u>, Harcourt Brace and Johanowich, New York.
- Peacock, A. and D.J. Robertson (Eds.) (1963), <u>Public Expenditure</u>; <u>Appraisal and Control</u>, Oliver and Boyd, Edinburgh.
- Peacock, A. and G.K. Shaw (1976), <u>The Economic Theory of Fiscal Policy</u>, George Allen and Unwin, London.
- Phyrr, P. (1970), <u>Zero Base Budgeting: A Practical Management Tour Tool for Evaluating</u> <u>Expenses</u>, John Wiley, New York.
- Premchand, A. (1966), <u>Control of Public Expenditure in India</u>, Allied Publishers, New Delhi.
- Reports of various finance Commissions.
- Sahni, B.S. (Ed) (1972), <u>Public Expenditure Analysis : Selected Readings</u>, Rotherdam University Press.
- Shome, P.(Ed.) (1995), <u>Tax Policy: Handbook</u>, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.
- Shoup, C.S. (1970), <u>Public Finance</u>, Aldine, Chicago.
- Singh, T. (2000), <u>The Corporation Tax in India</u>, Classical Publishing Company, New Delhi.
- Spulber, N (1998), <u>Redefining the State</u>, Cambridge University Press, Cambridge.
- Sreekantaradhya, B.S. (1972), <u>Public Debt and Economic Development in India</u>, New Delhi.
- Stiglitz J.E. (1986), <u>Economics of Public Sector</u>, Norton, New York.

## **INTERNATIONAL ECONOMICS - 506111**

### PREAMBLE

The objective of this course is to provide a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital – both short term and long-term – at the global level. Besides, preparing the students about the relevance and limitations of these principles, the paper also lays stress on examining the impact of the trade policies followed both at the national and international levels and also their welfare implications at macro level and the distribution of gains from trade with particular reference to India.

| Sr.  | Topic and Details  | No. of   | Weightage |
|------|--|----------|-----------|
| No.  | Topic and Details  | lectures | in %      |
| 1100 |  | Assigned | 111 70    |
|      |  | Assigned |           |
| 1.   | Theory of International Trade:   | 12       | 20        |
|      | 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 and measurement of gains from trade.   |          |           |
| 2.   | New Theories of Trade:   | 12       | 20        |
|      | 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-Hechscher-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.   |          |           |
| 3.   | Terms of Trade and Interventions:  | 12       | 20        |
|      | Concept of terms of trade – their uses and limitations, hypothesis<br>of secular deterioration of terms of trade – its empirical relevance<br>and policy implications for less developed countries. Nominal,<br>effective and optimum rates of tariff, Tariffs and non-tariff<br>barriers, economic effect of tariff under partial equilibrium (price<br>effect, terms of trade effect, competitive effect, income effect,<br>revenue effect), effect of tariff under general equilibrium,<br>Stolper-Samuelson theorem, |          |           |
| 4.   | Balance of Payments and Trade Policies in India::  | 12       | 20        |
|      | Meaning and components of balance of payments, disequilibrium<br>in balance of payments, adjustment mechanisms – elasticity<br>approach, absorption approach, monetary approach and portfolio<br>balance approach, internal and external balance – Swan model,   |          |           |

|    | foreign trade multiplier.<br>Trade policies in India during last five decades with emphasis on<br>post reform policies, rationale and impact of trade reforms<br>since 1991 on balance of payments, employment and growth;<br>convertibility of rupee.  |    |    |
|----|---|----|----|
| 5. | The Theory of Regional blocks:<br>Optimum currency area theories, Forms of economic cooperation<br>- rationale and economic progress of SAARC/SAPTA and<br>ASEAN regions, regionalism (EU, NAFTA), multilateralism and<br>WTO, IMF and World Bank.<br>Rise and fall of gold standard and Bretton-Woods system,<br>emerging international monetary system, reform of international<br>monetary system. | 12 | 20 |

- Aggarwal, M.R. (1979), <u>Regional Economic Cooperation in South Asia</u>, S. Chand and Co., New Delhi.
- Barrow, R.J. (1993), <u>Macro Economics</u>, 4<sup>th</sup> Edition, John Wiley, New York.
- Bhagwati, J. (1988), <u>Protectionism</u>, Cambridge University Press, Mass.
- Bhagwati, J. (Ed.) (1981), <u>International Trade : Selected Readings</u>, Cambridge University Press, Mass.
- Bhagwati, J. and P. Desai (1970). India : Planning for Industrialization, Oxford Universities Press, London.
- Brahmananda, P.R. (1982), <u>The IMF Loan and India's Economic Future</u>, Himalaya Publishing House, Bombay.
- Brahmananda, P.R. and V.R. Panchmukhi (Eds.), (1987). <u>The Development Process of the Indian Economy</u>, Himalaya Publishing House, Bombay.
- Carbough, R. J. (1999), <u>International Economics</u>, International Thompson Publishing, New York.
- Chacholiades, M. (1990), <u>International Trade: Theory and Policy</u>, McGraw Hill, Kogakusha, Japan.
- Clement, M.O., R.L. Pffister and K.J. Rothwell (1969), <u>Theoretical Issues in International</u> <u>Economics</u>, Cosntable Publication, London.
- Corden, W.M. (1965), <u>Recent Developments in the Theory of International Trade</u>, Princeton University Press, Princeton.
- Corden, W.M.(1974), <u>Trade Policy and Economics Welfare</u>, Clarendon Press, Oxford.
- Crockett, A. (1982), International Money : Issue and Analysis, The ELBS and Nelson.
- Dana, M.S. (2000), <u>International Economics</u> : <u>Study, Guide and Work Book</u>, (5<sup>th</sup> Edition), Routledge Publishers, London.
- Dunn, R.M. and J.H. Mutti (2000), <u>International Economics</u>, Routledge, London.
- Goldstein, M. (1998). <u>The Asian Financial Crisis</u> : Causes, Cure and Systematic Implication, Institute for International Economics, Washington, D.C.
- Grable, J.O. (1996), <u>International Financial Markets</u>, Prentice Hall Englewood Cliffs, New York.
- Greenway, D. (1983), <u>International Trade Policy</u>, Macmillan Publishers Ltd., London.
- Heller, H. Robert (1968), <u>International Monetary Economics</u>, Prentice Hall, India.
- Jakson, J. (1989), <u>The World Trading System</u>, Cambridge University Press, Mass.
- Joshi, V. and I.M.D. Little (1998), <u>India's Economic Reforms</u>, 1999-2000, Oxford University Press, New Delhi.
- Kenen, P.B. (1994), <u>The International Economy</u>, Cambridge University Press, London.
- Kenen, P.B. (1995), <u>Economic and Monetary Union in Europe</u>, Cambridge University Press, UK.

- Kindleberger, C.P. (1973), <u>International Economics</u>, R.D. Irwin, Homewood.
- Kindleberger, C.P. (1996), <u>A History of Financial Crisis</u> : <u>Manias</u>, <u>Panics and Crashes</u>, (3<sup>rd</sup> 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), <u>International Economic : Theory and Policy</u>, Glenview, Foresman.
- Linder, S.B. (1961), <u>An Essay on Trade and Transformation</u>, Wiley, New York.
- Manmohan Singh (1964), <u>India's Export Trends and the Prospects for Self-Sustained Growth</u>, Oxford University Press, New Delhi
- Mishkin, S.F. (1998), <u>The Economics of Money</u>, <u>Banking and Financial Markets</u>, (5<sup>th</sup> Edition) Harper Colins Publishers, New York.
- Mundell, R. (1968), <u>International Economics</u>, The Macmillan Company Ltd., New York.
- Nayyar, D. (1976), <u>India's Export and Export Policies in the 1960s</u>, Cambridge University Press.'
- Niehans, J. (1984), <u>International Monetary Economics</u>, John Hopkins University Press, Baltimore.
- Panchmukhi, V.R. (1978), <u>Trade Policies of India A Quantitative Analysis</u>, Concept Publishing Company, New Delhi.
- Panchmukhi, V.R., K.M. Rajpuria and R. Tandon (1987), <u>Money and Finance in World</u> <u>Economic Order</u> (RIS), Indus Publishing Co., Delhi.
- Patel, S.J. (1995), <u>Indian Economy Towards the 21<sup>st</sup> Century</u>, University Press Ltd., India.
- Pomfrert, R. (1988) Unequal Trade : <u>The Economics of Discriminatory International Trade</u> <u>Policies</u>, 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), <u>India's Trade with Asia and the Far East Countries</u>, B.R. Publishing Corp. New Delhi.
- Schwartz, A.J. (1987), Money in Historical Perspective, Chicago University Press, Chicago
- Soderston, Bo (1991),. <u>International Economics</u>, The Macmillan Press Ltd., London.
- Soloman, R. (1982), <u>The Evaluation of the International Monetary System : 1945-1981</u>, Harper and Row Publishers, New York.
- Tew, B. (1985), <u>The Evaluation of the International Monetary System : 1945-85</u>, Hutchinson.
- Verma, M.L. (1995), International Trade, Vikas Publishing House Pvt. Ltd., Delhi.
- Whalley, John (1985), <u>Trade Liberlization Among Major Trading Areas</u>, Cambridge University Press, Mass.
- Yeager, L.B. (1976), <u>International Monetary Relations : Theory, History and Policy</u>, Harper and Row, New York.

# ECONOMY OF MAHARASHTRA -506112

## PREAMBLE

The objective of this Paper is to sharpen the analytical faculty of the student, by highlighting an integrated approach to the functioning aspects of the economy of Maharashtra. This paper will enable the students to understand and analyse the economy of the state in the context of the national economy. The emphasis of this paper is on the sectoral components of the economy.

| Sr. | Topic and Details   | No. of   | Weightage |
|-----|---|----------|-----------|
| No. |   | Lectures | in %      |
|     |   | Assigned |           |
| 1   | Introduction  | 15       | 25        |
|     | Role and significance of economy of Maharashtra in Indian               |          |           |
|     | economy. Basic characteristics of the economy of Maharashtra, its       |          |           |
|     | significance in the Indian economy. Trends in macroeconomic             |          |           |
|     | aggregates- population, state domestic product, revenue and             |          |           |
|     | expenditure, fiscal deficit, money supply, deposits, credit, inflation, |          |           |
|     | employment.   |          |           |

| 2 | Infrastructural development<br>Role of infracture in economic development<br>Physical- Transport and Communication, Water and Irrigation,<br>Energy. Social- Health, education, Social sector indicators-<br>poverty, inequality, human development index, sex ratio and<br>migration.  | 15 | 25 |
|---|---|----|----|
| 3 | Agriculture<br>Agriculture production, cropping pattern, marketing and finance,<br>agro-processing and agribusiness- land reforms in Maharashtra.<br>Strategy for agriculture development. Role and Functioning of Co-<br>operative Societies in Maharashtra.   | 15 | 25 |
| 4 | <b>Industry</b><br>Industrial development in Maharashtra, the role of MIDC, SICOM,<br>MSFC & MSSSIDC in the state industrial development. Foreign<br>Direct investment in Maharashtra. Industrial policy of Maharashtra.<br>industrial strategies in Maharashtra. Social sector- poverty<br>alleviation, housing, health sector, women and child development. | 15 | 25 |

### Books

- Indian Economy & Problems of Maharashtra: Dr. Burunge & Dr. Chapalgaonkar, Narendra
- Indian Economy: Datta & Sunderam, Himalaya Publishing House (Recent Edition)
- Maharashtra State's Human Development Report
- Census Report Of Maharashtra
- Economic Problems Of Maharashtra: Mukund Mahajan, Mukund Prakashan (In Marathi) (Recent
- Economic survey of Maharashtra- Directorate of Economics & Statistics, Government of
- Economy of Maharashtra: Dr.Kurulkar. Vidhya Prakashan, Nagpur (In Marathi) (Recent Edition)
- Edition)
- Indian Economy: K.K.Diwait Himalaya Publishing House (Recent Edition)
- Indian Economy: S.K..Mishra & Puri, Himalaya Publishing House (Recent Edition)
- Maharashtra, Mumbai.
- Maharashtra: Santosh Dastane, Dastane Prakashan, Pune (Recent Edition)
- Planning & Budget Documents of the Central Government of India
- Planning & Budget Documents Of The Maharashtra State Government
- Prakashan. (Recent Edition)
- R.B.I.Bulletin & Annual Reports :
- The Central Government of India's Report on the progress of India.

### **RURAL ECONOMICS -506113**

### PREAMBLE

The significance of rural economy in terms of its size, its role in overall economic development necessitates the study of this sector of the economy. The rural economy has undergone changes in terms of size, industrial and occupational composition in response to policy mix adopted during planning period in India. The objective of this course is to make students understand this transformation and the analytics of rural development.

| Sr.<br>No. | Topic and Details  | No. of<br>Lectures<br>Assigned | Weighta<br>ge<br>in % |
|------------|--|--------------------------------|-----------------------|
| 1          | <b>Rural Economics</b><br>Rural Economy of India – size and structure – agricultural sector – non<br>agricultural sector employment - Rural economy in economic development –<br>Intrinsic and instrumental value of rural development   | 08                             | 15                    |
| 2          | <b>The concepts of rural development :</b><br>Concept- Rural development, Basic elements of rural development, Theories<br>and approaches for rural development, Gandhian approach, technology<br>centered approach, Marxian approach, Rural development with social justice,<br>rural- urban dichotomy- Determinants of rural development.  | 14                             | 30                    |
| 3          | Agricultural development in India:<br>Agricultural development as a pre condition for rural development, green<br>revolution, droughts and their impact, community development programme,<br>land reforms, agrarian unrest, farmers movement in India, agricultural based<br>rural development programme, Poverty, unemployment and agricultural<br>development, , dimensions of rural poverty, Various poverty alleviations<br>programmes, Programmes for self employment generation (IRDP)<br>Programmes for wage employment, NREGA, planning for rural development. | 14                             | 30                    |
| 4          | <b>Rural industrialization in India:</b><br>Rural industrialization- typology, location, spread and growth in rural<br>industrialization, Role of the allied agricultural sector in rural development,<br>forestry and logging animal husbandry and dairy, sericulture and other allied<br>activities, Decentralized rural administration, Panchayat Raj System-<br>evolution and experience across states.  | 14                             | 30                    |
| 5          | <b>Infrastructure and rural development:</b><br>Role of infrastructure in rural development, issues in rural banking, education<br>and rural development, Irrigation and drinking water, rural electrification,<br>cooperatives in rural development.  | 10                             | 25                    |

- 1. Singh Katar(1999), 'Rural Development- Principles, Policies and Management', Second Edition, Sage publications, New Delhi.
- 2. Parthasarathy and Nancharaiah(2004),'Economic reforms and rural development in India', Academic Foundation, New Delhi.
- 3. Nawar Rohini (1991), ' Rural poverty in India, Indian School of Political Economy, Pune.
- 4. Dantwala M.L (1991), 'Agricultural Development in India since independence', Oxford and IBM, New Delhi.
- 5. DandeV.M. and Rath N. (1971, 'Poverty in India', Oxford University Press, Mumbai.

- 6. Harris John (Ed)(1982), Rural Development: Theories of peasant Economy and agrarian change', Hunching band company.
- 7. Maheshwari S.R. (1985), 'Rural development in India' Sage publications, New Delhi.
- 8. Jain I.C. (1985), 'Grass without roots', Sage publications, New Delhi.
- 9. Papola T.S.(1982), 'Rural Industrialization: Approaches and Potential ', Himalaya publication, Mumbai.
- 10. Government of India.(1978), 'Report of the committee on Panchayat Raj Institutions, Ministry of agriculture and Irrigation, New Delhi.

# **URBAN ECONOMICS -506114**

## PREAMBLE

Historically inexorable urbanization has been concomitant of economic development. The study of urban economy thus forms important component of the domain of development economics particularly in developing world which has been experiencing 'second wave of urbanization'. The objective of this course is to introduce the students to the analytics of the trends in urbanization, main economic forces that lead to existence of cities, their effect on economic development, urban amenities and congestion, poverty in urban India. The policies to combat the problems like urban poverty and unemployment, environmental degradation will be also are the focus of this course.

| Sr.<br>No. | Topic and Details   | No. of<br>Lectures<br>Assigned | Weight<br>age in<br>% |
|------------|---|--------------------------------|-----------------------|
| 1          | Urbanization<br>Urbanization: Definition and basic concepts, Process of urbanization,<br>Indicators of urbanization- Level of urbanization-<br>Size of million plus cities. Industrialization- Urbanization nexus.<br>Urbanization- a global view, Urbanization in developed and developing<br>countries. Urbanization in India   | 10                             | 20                    |
| 2          | Migration and urban growth<br>Components of urban growth- Natural growth, migration, Addition of net<br>new towns, Migration and urban growth, Migration, active and passive<br>migration, Push and Pull factor of migration. Theories of migration-1.<br>Lewis, Fei and Ranis, 2. Revenstein, 3. Everest and 4.Todaro. Contribution<br>of migration in urban growth in India.  | 15                             | 25                    |
| 3          | Theories of Urban Growth<br>Central place theory, Economic base theory: base ratio and concept of<br>economic base multiplier, Dependency theories, Agglomeration<br>economics, Rank size distribution of cities.   | 15                             | 25                    |
| 4          | Urban problems and policies<br>Urban employment and poverty_ Urban informal economy- Urban<br>poverty- migration-urbanization- informal work- poverty nexus- urban<br>poverty alleviation policies- Urban infrastructure- Problem of urban<br>housing and transportation, Urban basic services. Environmental<br>problems in urban area, Finances of urban local bodies- policy measures<br>to urban issues. Jawaharlal Nehru National Urban Renewal Mission<br>(JnURM) | 20                             | 30                    |

- 1. Ramchandran R. (1989), 'Urbanization and urban system in India', Oxford University Press.
- 2. Bose Ashish (1978), 'India's urbanization 1901-2001', Second revised edition, Institute of Economic Growth.
- Cheruilam Fransis (1984), 'Urbanization in developing countries', Himalaya Publishing House, Bombay.
- 4. Shukla Vibooti (1988), 'Urban development and regional policy in India : An econometric analysis', Himalaya Publishing House, Mumbai.
- 5. Sivaramakrishnan K.C., Kundu Amitabh, & Singh B.N., (2010), 'Handbook of urbanization in India', Second edition, Oxford University Press.
- Susan Loughhead, Onkar Mittal and Geof Wood(2001), 'Urban poverty and vulnerability in India', Department of International Development, Government of United kingdom.(www.ucl.ac.uk/dpu-project)
- 7. 'Report of working group on urban poverty, Slums and service delivery system', Steering committee on urbanization planning commission, New Delhi, October 2011.
- 8. United Nations Population Fund 2007, 'State of world population 2007- unleashing the potential of urban growth.'
- 9. 'World urbanization prospects, the 2011 revision', United nations, Department of Economic and social Affairs, Population Division.
- 10. Edwin S. Mills(1980),'Urban Economics', Second edition,Scott, Foresman and Company, London.

# **ECONOMICS OF CO-OPRATION-506115**

## PREAMBLE

Cooperative institutions have played important role in economic development since the inception of planning in India. In recent years this segment has been transforming in the light of globalization. The main objective of this course is to introduce the students the issues like emergence of various cooperative societies, their role in economic development, their performance, the challenges faced by them in changing economic environment.

| Sr. | Topic and Details  | No. of   | Weight   |
|-----|--|----------|----------|
| No. |  | Lectures | age in % |
|     |  | Assigned |          |
| 1   | Introduction of co-operation   | 12       | 20       |
|     | Definition of co-operation- Historical perspective of co-operation -<br>World perspective of cooperative movement- Perspective of Indian<br>cooperative movement- Characteristics of co-operative- Principle of co-<br>operatives, Cooperation Vs. Capitalism and Socialism. |          |          |
| 2   | Structure of Cooperatives  | 12       | 20       |
|     | Structure of cooperative institutions in India- Primary agriculture credit cooperatives, non agriculture credit cooperatives, District Central   |          |          |

|   | Cooperative banks, State cooperative banks, Urban Co-operative Banks-<br>Their functions, Progress , Problems and remedies- Role of NABARD in<br>rural credit.   |    |    |
|---|--|----|----|
| 3 | Non credit cooperatives<br>Agricultural marketing societies- Consumer Co-operative Societies-<br>Industrial Co-operative societies- Labour Cooperatives societies-<br>Housing Co-operative societies- their progress problems and remedies.                    | 12 | 20 |
| 4 | <b>State and Cooperation</b><br>Recommendation of Rural Credit Survey Committee, The Registrar,<br>State partnership- Role and function of Cooperative Department,<br>Cooperative Audit, Cooperative legislation- Recommendation of<br>Vaidyanathan Committee. | 12 | 20 |
| 5 | <b>Co-operation and Planning</b><br>Professionalization of cooperative management- Development of Co-<br>operative under planning in India- Evaluation- Globalization and<br>Cooperative in India.   | 12 | 20 |

- 1. Bedi R.D. (1983), 'Theory, History and practice of cooperation', International Publishing House, Merut.
- 2. Hajela T.N. (2010)'Principles, problems and practice of Cooperation in India', 7<sup>th</sup> edition, Agarwal publication, Agra.
- 3. Haguh E.M.(1959), 'Cooperative movement in India', Oxford University Press, Bombay.
- 4. Kulkarni K.R., (1958) 'Theory and practice of Cooperation in India and abroad', Cooperative Book depot, Bombay.
- 5. Misra Baidhynath,(1997),'Cooperative movement in India', A.P.H. publishing cooperation. New Delhi.
- 6. Ramkishen Y.(2003), 'Management of co-operatives Histrory, Theory, sectors and Case studies', Jaico Publishing House', Mumbai.
- 7. Tripathi S.N.(2000) 'Cooperative growth and New Dimensions, Discovery publishing House, New Delhi.
- 8. Madan G.R.(2007), 'Cooperative movement in India', Mittal Publication.
- 9. Amit Basak, (2010), 'Co-operative Banks in India Functioning and Reforms', New Century Publications, New Delhi.
- 10. IIBF, (2010), 'Co-operative Banking', Macmillion India Ltd, India.
- 11. NABARD, 'Statistical statement relating to the Co-operative movement in India'. Part I & II.

## **ECONOMICS OF PHYSICAL INFRASTRUCTURE-506116**

## PREAMBLE

The important role infrastructure plays in a country's development need not be reiterated. In case of developing countries, lack of adequate infrastructure has been held as a major

obstacle to growth. Of the various categories of infrastructure, the category of social overhead capital has gained particular prominence. The contents of the paper 'Economics of Physical Infrastructure' expose the student wholly to issues involved in development of physical infrastructure in developing countries like India.

| Sr.<br>No | Topic and Details  | Credit | Weightage<br>in % |
|-----------|--|--------|-------------------|
| 1.        | <b>Introduction:</b><br>Infrastructure and Economic Development- Infrastructure as a public good: Physical and Social Infrastructure: Rationale of State intervention- Special characteristics of public utilities- Approaches to social infrastructure- Human resource development and human development-Public Private Partnership.  | 1      | 25                |
| 2.        | <b>Transport and Communication:</b><br>Characteristics of demand and supply-The structure of Transport<br>Costs. Demand for Transport. Principle of Pricing. Special<br>Problems of Individuals Modes of Transport; Internet<br>Connectivity, Telephone-Mobile Connectivity-Characteristics and<br>problems of Postal Services- Criteria for Fixation of Postal Rates –<br>Telecommunication- Rate-making in Telephone Utilities-<br>development of Ports, Railway, Bridges and Highways, Roads. | 1      | 25                |
| 3.        | <b>Energy, Electricity, Gas,</b> Energy and Economic Development,<br>Energy Conservation, Renewable and Non-conventional Sources<br>of Energy. Bulk Supply and pricing of Electricity. The Relative<br>Economics of Thermal, Hydel and Nuclear Power Plants. The<br>Case for a National Power Grid, The Exploitation of Natural Gas.   | 1      | 25                |
| 4         | Water Supply and Sanitation: Political Economy of Water,<br>Financing Water Utilities. Urban and Rural Water Supply-The<br>concept of user charge, Pricing Problems-State versus market-<br>Commercialisation of water- social audit of water- management<br>of solid waste, waste water management, Industrial waste<br>management-Waste Water Treatment  | 1      | 25                |

- Baru, R.V. (1998), <u>Private Health Care in India : Social Characteristics and Trends</u>, Sage Publications, New Delhi.
- Becker, G.S. (1974), Human Capital (2<sup>nd</sup> Edition), <u>National Bureau of Economic</u> <u>Research</u>, New York.
- Berman, P. and M.E. Khan (1993), <u>Paying for India's Health Care</u>, Sage Publications, New Delhi.
- Crew, M.A. and P.R. kleindorfer (1979), <u>Public Utility Economics</u>, Macmillan, London.
- Indian Council of Social Sciences Research (ICSSR) (1976), <u>Economics of</u> <u>Infrastructure</u>, Vol. VI, New Delhi.
- Mcmohan, W.W. (1991). <u>Education and Development: Measuring the Social Benefits</u>, oxford University Press, Oxford.
- National Council of Applied Economic Research (NCAER), (1996), <u>India</u> <u>Infrastructure Report: Policy Implications for Growth and Welfare</u>, NCAER, New Delhi.

- Nelson, J.R. (1964), <u>Marginal Cost Pricing in Practice</u>, Prentice-Hall, Englewood-Cliff.
- Padmanabhan, C.B. (1984), <u>Financial Management in Education</u>, Select Books, New Delhi.
- Panchamukhi, P.R. (1980), <u>Economics of Health: A Trend Report</u> 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), <u>Prices: Issues in Theory, Practice and</u> <u>Public Policy</u>, University of Pennsylvania Press, Philadelphia.
- Tata Energy Research Institute (1995), <u>Environmental Considerations and options in</u> <u>Managing India's Long-term Energy Strategy</u>, Mumbai.
- Tilak, J.B.G. (1994), <u>Educational for Development in Asia</u>, Sage Publications, New Delhi.
- Vaizey, J. (1962), <u>Economics of Education</u>, Faber and Faber, London.
- Woodhall, M. (1992), <u>Cost Benefit Analysis in Educational Planning</u>, UNESCO, Paris.
- World Bank (1993), <u>The World Development Report, 1993: Investing in Health</u>. Oxford University Press, New York

# **Economics of Social Infrastructure-506117**

## Preamble

This elective course covers theoretical foundations of economics of health and education and also techniques of economic evaluation will be covered for both the sectors. These two aspects of social infrastructure are clubbed together because there is an interdependence of output and existence of large externalities in both health and education sectors. Also these are important components having critical linkages to human development through improving human capabilities and empowerment. This course aims to equip students with skills to understand and analyze the development of health and education sectors. The emphasis will be on policy options and issues for developing countries like India but will also draw on the experience of other countries wherever relevant.

| Sr.<br>No | Topic and Details  | Credit | Weightag<br>in % |
|-----------|--|--------|------------------|
| 1         | <b>Economics of Health</b> Distinction between health and health | 1      | 25               |
|           | care- Nature of health care as an economic commodity-            |        |                  |
|           | Demand for health and Supply of health- Opportunity costs and    |        |                  |
|           | problems of rationing health care. Costs and efficiency- Costs:  |        |                  |
|           | fixed, marginal and average costs. Efficiency - technical and    |        |                  |
|           | allocative efficiency, and of various types of equity. Market    |        |                  |
|           | System and health care needs- Market failure and the role of     |        |                  |
|           | government – how insurance markets work, and how they can        |        |                  |
|           | fail for health care Health programmes like RCH programme,       |        |                  |
|           | ICDS scheme, nutrition programmes- their cost and benefits       |        |                  |
|           | (economic benefits direct and indirect)                          |        |                  |
| 2         | Financing health care, delivery of health care The economics     | 1      | 25               |
|           | of financing health care and different approaches taken by       |        |                  |
|           | governments in different countries-Options for financing health  |        |                  |
|           | care in developing countries- The rationale of government        |        |                  |
|           | funding and regulation of health care- examining the potential   |        |                  |
|           | role of user charges and community financing schemes.            |        |                  |
|           | Delivery of health care -decentralization and the role of the    |        |                  |
|           | private/public mixhealth system reforms. The future of Health    |        |                  |

|   | Sector reforms in developing countries like India.  |   |    |
|---|---|---|----|
| 3 | <b>Economics of Education</b> Formal and non-formal education-<br>Special characteristics of education- Implications for economic<br>analysis- Role of the state – Education, Productivity and<br>Employment-Investment in education: Costs and benefits,<br>Private and social rates of return (Human capital and Signaling<br>theories of education).   | 1 | 25 |
| 4 | Indian Education System Indian Education system –Rationale<br>of government funding and regulation of education- Alternative<br>method of financing education- Resource allocation to<br>primary, secondary and higher education- Efficiency, equity<br>and distributional aspects: Implications for gender and social<br>groups- Role of private and public sectors, Union and State<br>governments- Special programmes for education. | 1 | 25 |

- 1. Becker, G.S. (1974): Human Capital .2nd.Edn. ,NBER, New York
- 2. Cecchi, Daniel. (2008): Human Capital, Family Background and Inequality, Cambridge University Press
- 3. Feldstein, P. J. (1993): Health Care Economics, Wiley (Module1).
- 4. Grand, J., Propper. C and Ray Robinson (2002): The Economics of Social Problems, Palgrave.(Modules 1 and 3)
- 5. Henderson, J.W.(2001): Health Economics and Policy, South-Western, Thomson Learning. Chapters: 2 and 3 (Module 2)
- 6. Mcpake, B., L. Kumanayake and C. Normand (2002): Health Economics: An International Perspective, Routledge. (Module1)
- Musgrove, P. (2004): Health Economics in Development, The World Bank. Chapters: 2,3,4,9 and 10 (Modules 1 and 2)
- 8. Panchamukhi, P. R. (2002): Economics of Health: An Introductory Review. ICSSR. (Modules 1 and 2)
- 9. Robinson, E.A.G. and Vaizey, J. (eds) (1966): The Economics of Education, International Economic

Association, Macmillan, London (Modules 3 and 4)

10. Tilak, J.B.G.(1989): Economics of Inequality in Education, Sage, New Delhi.(Module 4)

# INDIAN AGRICULTURE-506118

### PREAMBLE

The objective of this course is to introduce the students to the main issues of Indian agriculture. Agriculture plays a very important role in Indian economy. Agricultural sector is undergoing tremendous changes over the years. The focus of this paper is to enlighten the students on various issues in Indian agriculture. The study of this paper is expected to enable the students to understand and analyse the problems of Indian agriculture and various policy measures.

| Sr. | Topic and Details | No. of   | Weightage |
|-----|-------------------|----------|-----------|
| No. |                   | Lectures | in %      |

|   |   | Assigned |    |
|---|---|----------|----|
| 1 | Role of Agriculture in Indian Economy   | 06       | 10 |
|   | Role of agriculture in economic development – Agriculture in Indian   |          |    |
|   | economy – Agricultural policy and programmes  |          |    |
| 2 | Production and Productivity   | 12       | 20 |
|   | Cropping pattern in Indian agriculture – Trends in production and   |          |    |
|   | productivity – Causes of low agricultural productivity – Remedial Measures –                                      |          |    |
|   | Food security – PDS – TPDS - Other govt. measures   |          |    |
| 3 | Landholding patterns and tenurial systems   | 12       | 20 |
|   | Landholding pattern – Systems of land tenure – Land reforms – Cooperative   |          |    |
|   | farming – Contract farming and corporate farming – Agrarian labour – Size   |          |    |
|   | and structure - Problems and remedial measures – Feminisation of  |          |    |
|   | Agriculture and Land Rights   |          |    |
| 4 | Agricultural Prices, Marketing and Finance  | 12       | 20 |
|   | Agricultural price policy – ACPC – Trends in prices – Terms of trade between                                      |          |    |
|   | agriculture and industry – Nature of agricultural markets – Measures –  |          |    |
|   | Sources of agricultural finance – NABARD -  |          |    |
| 5 | Agricultural Inputs and Subsidies   | 10       | 17 |
|   | Agricultural inputs : seeds, irrigation – fertilisers – pesticides – Green  |          |    |
|   | revolution – Technological developments   |          |    |
| 6 | Globalisation and Indian Agriculture  | 08       | 13 |
|   | New economic policy and Indian agriculture - WTO and Indian agriculture – Role of MNCs – Intrnational Initiatives |          |    |

- 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.
- 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.

- Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.
- 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.andTyagi D.S. (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi.
- Kausro, A.M. (1973), The Economics of Land Reforms and Farm Size in India, Macmillan, New Delhi.
- Mitra, A. (1977), Terms of Trade and Class Relations, Frank Cass Co. Ltd., London.
- 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.
- Raj, K. N. et. al. (1988), Essays in the Commercialisation of Indian 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.