

DEPARTMENT OF ECONOMICS
Mahatma Gandhi University, Nalgonda (TS) India



Pre-Ph.D. Course Syllabus – 2018

Paper-I: Research Methodology
(Compulsory Paper)

Paper – II (Optionals):
(One elective from- Paper - II respectively)

1. **Agriculture and Rural Development**
2. **Industrial & Environmental Studies**

**DEPARTMENT OF ECONOMICS
MAHATMA GANDHI UNIVERSITY-NALGONDA**

**Pre-Ph.D Syllabus
(Economics w.e.f.2017-18)
PAPER-I**

(Methodology of Economics)

I Theoretical base for Empirical research- Two way relation between theory and Empiricism, Need and formulation, Testing of empirical validity of hypotheses in Economics, case studies, survey methods, Time-series & cross section studies in Economic research.

II. Selection of Research Problem: Research Design & Report writing including methods of citing references. Broad details of important sources citing references; collection of Data-Questionnaire and Schedules, formal and informal discussion, cross verification.

III Sampling techniques, small sample test (t), Large sample test (Chi-square); Calculation of growth rates (Simple & Compound) between two end points, Growth linear, quadratic, semi log models, conversion of economic variable(Production/Capital/Wages) at current and constant prices.

IV Measures of Inequality, Standard Deviation, Coefficient of Variation, Lorenz Curve, Gini coefficient, Estimation of Degree of Correlation between Economic Variables , Simple and Multiple Regression, Presentation of Regression results and interpretation of coefficient of, sign, and size, Tests of Significance, Standard Error, r^2 , R^2 , Adjusted R^2 .

SUGGESTED READING

1. Ashok Rudra : Measurement in Economics, Allied Publisher, Delhi, 1969.
2. Kurien (Ed) CT : A Guide to Research in Economics, Rainbow Publication, Coimbatore, 1985.
3. Kothari, C.R: Research Methodology Methods and Techniques, New Age International(p) Limited Publishers, New Delhi, 2004.
4. Krishnaswami, O.R : Methodology of Research in Social Sciences, Himalaya Ranganatham, M. Publishing House, Mubai, 2005.
5. Murray, R.S : Theory & Problems of Statistics, Schaums Outline series, Mc Graw Hill, Delhi
6. Nagar L & Das SK : Basic Statistics
7. Ram Ahuja : Research Methods, Rawat Publications New Delhi
8. Sukhmoy Chakravarty : Methodology and Economics, Journal of Quattative Economics, Vol.I, No.1, January, 1985.

Pre-Ph.D Syllabus
Paper –II (Optional) (i) Agriculture and Rural Development

Unit-I

Importance of agriculture –Role of agriculture in Rural Development-Need of agriculture for industrial development- Share of agriculture in the economy -Terms of Trade between agriculture and Industry. Farm Size & Productively Relationship.

Unit-II

Agriculture Production and Productivity-Effects of Technology and changes-Agricultural wages-Cost of production in Agriculture-Pricing of Products in agriculture-mechanization of agriculture and labour absorption –Diversification of agricultural economic activities-Food Security and Agro-based industries –Inclusive growth.

Unit-III

Rural development vis-à-vis Agricultural development –Gandhian Approach to rural development-Experiences of Japan, China on rural development - Participation and problems of women, and child labourers in rural areas- Institutional and non-institutional sources of agriculture credit – Pattern of ‘credit – utilization and Recovery .

Unit-IV

Rural development & Basic Issues:-Rural indebtedness-Role of MGNREGS in mitigating rural debt – Role of irrigation in rural development - Diversification of agriculture, dry land farming- Poverty and employment Alleviation programmes - Role of voluntary agencies - Social assistance programmes of GOI.

Books and References:

1. K. Bhardwaj : Production conditions in Indian Agriculture
2. A. Rudra : Relative rates of growth; Agriculture & Industry
3. Kotovsky : Agrarian reforms in India.
4. P.C. Joshi : Land Reforms in India
5. CH. Hanmantha Rao : Technological Changes and Distribution of Gains in Indian Agriculture
6. Robert Chambers : Rural Development
7. Sarthar Aziz : Rural Development, China, India & Bangladesh.

Pre-Ph. D Syllabus
Paper – II (Optional) (ii) Industrial & Environmental Studies

Unit-I

Theories of Pattern of Industrialization, Theories of Hoffman, Chenary & Gershen Kron, Concept & Measurement of Industrial Productivity- Industrial growth during planning era- Regional imbalances in Industrial growth- Industrial Policies in India.

Unit-II

Market Structure & Market Performance: Classification of Industries, Service Sector led Growth- Privatization- Disinvestment - Industrial sickness – Source of Industrial Finance - Development of Small Scale & Cottage Industries.

Unit-III

Theories of Natural Resource Management and Sustainable Development: Material Balance and Entropy Law. – Hotelling's Theory of Exhaustible Resources, Das Gupta & Heal, Optimal Depletion of Renewable Resources.- Concept of Sustainable Development, Rules of Sustainable Development, Weak Vs Strong Sustainability Criteria, Theories of Sustainable Development.

Unit-IV

Measurement of Environmental Values & Policy: Market inefficiency and externalities, concept of total economic value, direct and indirect methods of Environmental Valuation, Environmental impact assessment and report, Environmental Audit – Mechanism for environment regulation, Environmental laws and their implementation in India, Global Environmental Policies.

Books and References:

1. Baumol, W.J : Economics and Environmental Policy and Quality of life - Prentice Hall, 1979.
2. Baumol, W.J : Theory of Environmental Policy - Cambridge University Press, 1989
3. Das Gupta, P.S & G.M. Heal : The Economic Theory of exhaustible resources Cambridge University Press, 1989
4. D. Reid : Sustainable Development, Earth scan Turner, Pearce & Bateman
5. Bateman : Environmental Economics, Harvester - Wheat sheaf
6. Dhingra : Indian Economy (Environment & Policy)
7. Ch. Hanmantha Rao: Agricultural Growth, Rural Poverty and Environmental Degradation in India, OUP, 1994
8. L.C. Hempel : The Global Challenges, EWP
10. Bateman : Environmental Economics, Harvester - Wheat sheaf
11. Dhingra : Indian Economy (Environment & Policy)
12. Ch. Hanmantha Rao: Agricultural Growth, Rural Poverty and Environmental Degradation in India, OUP, 1994
13. L.C. Hempel : The Global Challenges, EWP
14. Rajyalaxmi : Environmental Economics
15. U. Shankar : Environmental Economics
16. Ahluwalia, I.J.(1985): Industrial Growth in India, Oxford University New Delhi
17. Barthwal, RR(1985) : Industrial Economics, Wiley Eastern Limited, New Delhi
18. Chernuliam, F (1994) : Industrial Economics: Indian Perspective, Himalaya Publishing House, Mumbai
19. Divine, PJ & RM. Jones Et. Al (1976) ,An Introduction to Industrial Economics, George Allen & Unwin Lim., London
20. Kuchhal, SC(1980) : Industrial Economy of India, Chaitanya Publishing House, Allahabad
21. Sing, A & AN Sadu (1988) : Industrial Economics, Himalaya Publishing House, Mumbai