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

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 sampe 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 ofSignificance, Standard Error, $r^2$, $R^2$, Adjusted $R^2$.

SUGGESTED READING

6. Nagar L & Das SK : Basic Statistics
7. Ram Ahuja : Research Methods, Rawat Publications New Delhi
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


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 Polices in India.

Unit-II

Unit-III

Unit-IV

Books and References:
4. D. Reid : Sustainable Development, Earth scan
5. Bateman : Environmental Economics, Harvester - Wheat sheaf
6. Dhirga : 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. Dhirga : Indian Economy (Environment & Policy)
12. L.C. Hempel : The Global Challenges, EWP
13. Rajyalaxmi : Environmental Economics
14. U. Shankar : Environmental Economics
15. Ahuliwali, I.J.(1985) : Industrial Growth in India, Oxford University New Delhi