

STATISTICAL THEORY AND APPLICATIONS

Course Contents:

The Regular Course will be conducted in four phases, which are outlined below:

Phase -I (August to November) This phase consisting of four months will primarily be preparatory in nature and review background material and essential topics. It will be divided into three modules of uneven length. They will be as follows:

Module A:(First Two Weeks of August): The following papers will be covered:

- 1) Mathematics,
- 2) Descriptive Statistics,
- 3) Data Processing I

Module B: (From 3rd week of August to September end)

- 1) Mathematics
- 2) Descriptive Statistics
- 3) Data Processing I
- 4) Probability
- 5) Economic Statistics I
- 6) Sample Survey I

Module C: (October to November)

- 1) Mathematics
- 2) Descriptive Statistics
- 3) Data Processing I
- 4) Probability
- 5) Economic Statistics I
- 6) Sample Survey I
- 7) Statistical Methods I

Phase II (December) This involves training in Official Statistics conducted by the CSO and other Government organizations, part of which may be in New Delhi.

The curriculum will normally cover the following subjects, but the course may be modified depending upon the specific needs of the trainees:

1. Agricultural statistics. 2. Capital formation statistics. 3. Index numbers of prices. 4. Social statistics. 5. Balance of payments statistics. 6. Public finance statistics. 7. National income statistics & related studies. 8. Transport statistics. 9. Money and banking statistics. 10. Wholesale and retail sales statistics. 11. Population and vital statistics. 12. Education and cultural statistics. 13. Foreign trade statistics. 14. Industrial statistics.

Phase III (from January to early-March) The following subjects will be taught:

- 1) Demography
- 2) Statistical Method II
- 3) Sample Survey II

- 4) Data Processing II
- 5) Economic Statistics II

Phase IV (Mid-March to Mid-May) One of the following specializations is to be chosen. All the specialization may not be offered in a particular year.

- 1) Statistical Data Analysis
- 2) Applied Sample Surveys
- 3) Price Statistics
- 4) System of National Accounts
- 5) Economic Development
- 6) Time Series Analysis
- 7) Vital Statistics & Demography