

Syllabus

(PhD course work)

(A) Research Methodology

Unit-I: Fundamental of Research

Definition and meaning of research, importance of research, characteristics of research, steps in research, types of research.

Unit-II: Research Problems

Meaning of research problems, sources of research problems, characteristics of good research problems, selection and formulation of research problems / Research Design. Meaning, Needs and features of a good research design. Types of Research Design Formulation of Hypothesis.

Unit-III: Literature Survey

What is literature survey, function of literature survey, maintain a note book, developing a bibliography, online tools- Google, cite seer, ACM Digital library, survey papers.

Unit-IV: Applied Statistics

sampling theory, Test of significance- 't' test, Z test, one & two way ANOVA, Chi-square, correlation- simple, partial and multiple regressions.

Unit-V: Research Report

Types of research report, styles of reporting, steps in drafting research report, editing the final draft.

Apart from the above stated contents an insight of the recent techniques used in research arena will be provided to the candidates to facilitate their research work.

Reference Books:

- Research methodology by Dr. C.R. Kothari
- Operational research by Dr. S.D.Sharma, Kedarath, Ramnath & Co.
- Statistical methods by S.P. Gupta.
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- Research Methodology by Deepak Chawala.