**Ph.D Entrance Test Syllabus**

**RESEARCH METHODOLOGY**

### Objectives

To evaluate the students about basic understanding of the research methodology application and modern analytical tools and techniques in social and pure sciences.

### Unit I

Nature and scope of research, Defining Research Problems, Statement of research Objectives, and formulation, research Process. Sample Design, Methods and Techniques of Data Collection, Questionnaire Design, Scaling Techniques, types of research.

### Unit II

Methods of Data Collection: Observational and survey methods, questionnaire design, attitude measurement techniques, motivational research techniques, administration of surveys, sample design.

### Unit III

Selecting an appropriate statistical technique, field work and tabulation of data, analysis of data, and use of statistical software packages.

### Unit IV

Report Writing: Research Proposal Writing, Report Writing, Categories of Report, Layout and Parts of a Report, Presentation of a Report