

**1. Name of the course:** Research Methodology

**2. Objective of the course:** The primary objectives of this course is to enable researchers, irrespective of their discipline, in developing the most appropriate methodology for their research studies; and to make them familiar with the art of using different research-methods and techniques. It is hoped that the course will assist in the accomplishment of exploratory as well as result-oriented research studies.

**3. Learning Outcome:**

A student attending this course is expected to understand the motivation of research, learn the techniques of defining and solving research problems, understand research designs, time and effort management, scientific ethics Moreover, the student gets to know the details of several sampling designs, different measurement and scaling techniques, comparative study of the different methods of data collection, processing and analysis, parametric and non-parametric tests. task of interpretation and the art of writing research reports. Finally, the learner should be able to get a guidelines on how to write, publish, present and review scientific papers.

**4. Detailed Syllabus**

- Motivation, Background, Time and Effort management, Role of a Supervisor, Finding and Solving Problems.
- Sampling Design, Measurement and scaling Techniques, Methods of Data Collections, Processing and Analysis, Testing of Hypothesis I and Hypothesis II, Multivariate Analysis.
- Writing Scientific Papers, Research Ethics, Publishing and Reviewing Papers, Presentation Skills.