

Department of Economics
University of Jammu
Ph D Course: Research Methodology

Unit-I

Foundation of Research: Meaning and objectives of Research, Types of Research, Research Approaches; Social Science Research: Meaning, Objectives and Uses, Objectivity in Social Science Research, Limitation of Social Science Research, Ethical issues in Social Science Research; Research Methods and Methodology: Meaning, Objectives, Motivation

Unit-II

- Review of Literature: Meaning & importance, Sources of literature, Selection of Research Problem formulation of Research Problem - Research Design: Different types of Research Design Hypothesis and data required.
- Sampling: Types, Methods and Errors. Designing a Questionnaire/Schedule;
- Data Collection: Methods, Processing and Analysis of Data, Writing up and Presenting Research Results.

Unit-III

- Testing of Hypothesis (Standard tests of Hypothesis)
- Chi-Square test - Analysis of Variance - ANOVA and Analysis of Covariance - ANCOVA, Linear Regression Model - Estimation of parameters and tests of their significance, Multivariate Analysis Techniques - Important Methods of factor Analysis, Rotation in factor Analysis
- R-Type & Q-Type factor Analysis

Unit-IV

- Formula use in Excel (Single and multiple cell) Matrix inversion, Linear regression model - Estimation of parameters and tests of their significance in excel (2 variable & multi variable) ANOVA & ANACOVA, factor Analysis and rotation in factor Analysis using data

Paul *Archer* *Y. Y.* *Keerthi*