PAPER-V RESEARCH METHODOLOGY

UNIT - I Research Methodology: Meaning of Research; Objectives of research; Types of research; Research approaches, Significance of research; Research methods vs. Methodology; Research and scientific method; Research process; Criteria of good research; Problems encountered by researchers in India.

Defining the Research Problem : Selecting the Problem; Necessity of defining the problem; Technique involved in defining a problem; Selection and Setting objectives in business studies.

UNIT - II Rsearch Design : Meaning of research design, features of good design, Important concepts relating ot research design, Different research designs, Basic principles of experimental design.

Sampling Design: Census and sample survey - implications of sample design;
Steps in sampling design; Criteria for selection of a sample procedure;
characteristics for a good sample design; Different types of sample designs;
Random sample from an Indicate Universe; complex random sampling design.

UNIT - III Measurement and scaling techniques: Measurement in research;
Measurement scales; sources of Error in Measurement; Tests of sound
measurement; Techinque of developing measurement tools; scaleing; meaning
of scaling; Scale classification bases; Important scaling techniques; Scales
construction techniques.

Methods of data collection: Collection of primary data. Collection of data through questionnaire and schedules; some other methods of data collection; Collection of secondary data; Selection of apropriate method for data collection; Case study method.

Processing and analysis of data: Processing operations: Problems in Processing; Elements/types of analysis; Significance of the statistical tools in research.

UNIT - IV Sampling: Need for sampling: Fundamental definitions; Important sampling distributions; Determination of sample size through the approach based on precision rate and confidence level; Determination of sample size through the approach based on bayesian statistics.

Hypotheses concept: Basic concepts concerning testing of hypotheses; Procedure for hypothesis testing; Flow diagram for hypothesis testing; Measuring the power of a hypothesis test; Tools of hypotheses; Important parametric tests;

Hypothesis testing of mean; hypothesis testing for differences between means; Hypothesis testing for comparing two related samples limitations of the tests of hypotheses.

Chi-square test: Chi-square as a test for comparing variance; Chi-square as a non-parametric test; Conditions for the application of x2 test; Steps and caution chi-square test.

Analysis of variance (ANOVA): Concept and the Basic Principles of ANOVA

UNIT - V Interpretation and report writing: Meaning of interpretation; Why interpretation? Technique of interpretation; Precaution in interpretation; Significance of report writing; Different steps in writing report, layout of the research report; Types of reports; Oral presentation; Mechanics of writing a research report; Precautions for writing research reports.

The Computer : Its role in research : Computer and computer technology : The basics of computer system.