BHAGWANT UNIVERSITY, AJMER
Syllabus
Doctor of Philosophy: Course Work

Paper - I

Research Methodology & Computer Application

Concepts and Types of Research
Meaning – Objectives – Motivation – Types – Approaches – Significance – research Methods versus Methodology – Research and Scientific Method – Importance of Research – Research Process – Criteria of Good Research – Problems Encountered by Researchers

Research Problem
Sources – Formulation – Criteria – Research Questions – Importance – Literature Survey – Use of Library and Journals – Internet – Reprints of Research Articles Research Design – Meaning – Need – Features – Important Concepts – Different Research Designs – Ex-Post Facto Research – Explanatory Research – Exploratory Research

Sampling Techniques
Sample Survey – Implications of a Sample Design – Steps in Sampling Design – Criteria of Sampling – Characteristics of Good Sample Design – Randomisation – Simple Random – Stratified Random Sampling – Systematic Sampling – cluster Sampling – Multistage Sampling – convenience Sampling – Purposive Sampling – Quota Sampling – Advantages and Disadvantage of Sampling

Data Collection
Primary and Secondary Data – Meaning – Importance – Characteristics – Quantitative and Qualitative Data – Interview – Questionnaire – Schedules – Survey – Experimentation

Hypothesis Testing
Meaning – Importance – sources – Types – Characteristics – Formulation – Generalization – Hypothesis Testing of Means – Hypothesis testing for Differences between means – Hypothesis Testing Comparing Two Related Samples – Hypothesis Testing of Proportions – Hypothesis Testing for differences between Proportions – Hypothesis testing for Comparing Variance – Hypothesis Testing for Correlations – Limitations of Hypothesis Testing.

Analysis of Data
Measures of Central Tendency – Measures of Dispersion – correlations – Chi – Square – Test – Analysis of Variance – Regression – Multivariate Analysis – Sign Test –

Wilcoxons Signed Rank Test – Wald wolfowits runs Test – Freedman Test – Mann Whiteny U Test.

Interpretation and Report Writing
Meaning – Technique – Precautions of Interpretation – Report Writing – Structure of Report – Contents Steps in Drafting – Layout - Types – Styles – Editing – Final Report – Evaluation.

Computer Applications
Computer and Computer Technology – Computer System – Important Characteristics – The Primary Number System – Computer Applications – Computers and Researchers – Tables – Graphs – Languages

MS Office, SPSS, data communication, LAN & WAN data exploration using internet tools, e-journals, e – books, Basic concept of Teleconferencing & related configuration.

Syllabus For Ph.D Course Work

Paper – II

Review of Literature

Review of Literature
Need for Reviewing Literature, What to Review and for What Purpose, Literature Search Procedure, Sources of Literature, Planning of Review work, Note Taking

It will consist of training on how to collect, classify, orient, present and write review of literature. It will be primarily done under the supervision of the supervisor. The candidate will be assigned topic(s) by the supervisor preferably related to the work he/she is supposed to carry out for Ph.D.

The candidate will write and submit the same as review article(s) in a format suggested by the supervisor.

The assessment of this submission will be in form of acceptance of this review paper in reputed journal/ conference.

Syllabus For Ph.D Course Work

Departmental Course

Paper – III

This will be a self-study course based on specialized topic of the research area allotted by Supervisor. Supervisor will set the question paper and will be evaluated by supervisor.