



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 –

Wilcoxon's Signed Rank Test – Wald-Wolfowitz Runs Test – Friedman Test – Mann-Whitney 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.

Syllabus For Ph.D Course Work

Paper – IV

Research Proposal: Design & Techniques

This would include training the candidate on how to write research proposals. The candidate will collect research papers dealing with the problem and its solution methodology as per the objectives set for the study in consultation with the supervisor and then will standardize these techniques based on facilities that are available in the department. Under the guidance of the supervisor, the candidate will have to prepare research proposals for seeking grants in a format of an agency that funds research.

Research Scholars are suppose to refer to finding agency website such as AICTE, DST, DBT, ICSSR, DOC, MNES, CSIR, UGC etc.

Look for link on project proposal. Download the project proposal format, fill the project proposal and show it to your guide or supervisor. **Submit it in research cell after signing it by the candidate & supervisor** at the time of course work exam.