OPJS UNIVERSITY, RAWATSAR KUNJLA- RAJGARH
CHURU
Course work
Syllabus

Paper – 1st Research Methodology

UNIT – I


UNIT-II

Data Collection: - Sources of Data: Primary Data, Secondary Data; Procedure Questionnaire - Sampling Merits and Demerits - Experiments - Kinds - Procedure; Control Observation - Merits - Demerits - Kinds - Procedure - Sampling Errors - Type-I Error - Type-II Error.

UNIT-III


UNIT -IV


UNIT - V

Research Reports: Structure and Components of Research Report, Types of Report, Good Research Report, Pictures and Graphs, Introduction to SPSS.

References:-

2. Pauline Vyoung: Scientific Social Surveys and Research.
6. Sellitz, Et Al: Research Methods in Social Relations
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Paper- 2
nd
Computer Application

- Introduction
  Classification of computers, computer memory, types of software’s: application of system software’s operating systems and types, single user, multi user, multi-tasking single tasking, application of computer for business and research.
- Data Communication and networks
  Data communication concepts, local area network, wide area network, internet, intranet, extranet, website. Email, search engines-enterprise E communication and E collaboration
- MS Office and its application
  File handing in window, various versions of MS Office, M S-Word: Test formatting, Mail merge, Macro, M S-Excel: Features, various formulas and functions M.S. Power Point: Creating presentations and adding effects.
- SPSS
  Introduction to SPSS: Definition, objectives and features, data analysis using SPSS: Data entry creating variables, switching to data labels, data analysis: Frequencies, recording into different variables, cross tabulations and layers.
- Application of Internet in research
  INFLIBNET, Use of Internet, sights (DOAJ), Use of E Journals, Use of E- library, use of EBSCO HOST online database of Academic Libraries.

Paper – 3
rd
Quantitative Method

- Meaning and definition of quantitative method
- Arranging data to convey meaning – Tables, Graphs and Frequency Distribution
- Measures of Central Tendency and Dispersion
- Simple and Multiple regression and correlation
- Association of Attributes
- Probability – probability Distributions, Binomial, Poisson and Normal
- Liner Programming - Formulation and Graphical solution to two variables – Assignment Problems, Transportation problems
- Queuing Theory – Single Server And Multi-Server
- Markov chains with Simulation Techniques – Monte Carlo Simulation
- Game theory – 2x2 zero sum game with dominance – pure strategy and mixed strategy
- Decision Theory – 5 criteria of decision making
- Chi-square
- Discriminant Analysis
- Factor Analysis
- Cluster Analysis
- Multidimensional Scaling
- ‘T’ Test
- ‘F’ Test
- ‘Z’ Test
Reviewing of Published Research in the Relevant Field

- Examining the methods of evaluating and interpreting published research.
- Developing skills needed to research available literature for information relevant to a given topic.
- Exploring the principles and techniques of topic/project development and testing.
- Examining the methods of evaluating and interpreting data collected in the research process.
- Developing an understanding of the various statistical methods that can be used to analyze data.
- Demonstrating the ability to use statistical analysis tools and apply them in decision making activities.
- Demonstrating the ability to create a template document that can be used to complete your research project or thesis

Course work Plan:-

(A). 1st Phase
1. Research Methodology
2. Computer Application

(B). 2nd Phase
1. Quantitative method
2. Reviewing of published research in the relevant field.

The above phase of course work classes shall be completed in a semester. The university shall manage part time or continue/residential classes for course work.

Study plan-
The course work classes are mandatory to attend 3 days in a month alternatively.
The assignment should be submitted time to time.
Evaluation examination held in end of course time.

Director
OPJS University
Churu