

Research Methodology

Credit point: 3

Full mark 100

Total Hours: 45

COURSE OUTCOME

After completion of this course, students will be able to

- Understand the need and importance of research
- Develop skills to identify samples for various types of research
- Differentiate between different types of research
- Explore relevant literature review using primary and secondary sources
- Acquire proficiency to develop research proposal

COURSE CONTENTS

UNIT-I Introduction To Research Methodology

[12 Hours]

Learning Outcome-

✓ *The students will be able to gain insight about the meaning, purpose and types of research*

- Meaning, Significance, Objectives of research, Research methods v/s research methodology, Ethics for research
- Types of research -Pure and applied research, Qualitative and Quantitative research Exploratory, Descriptive, Experimental, Analytical, Action research. Case Study, Field Studies, Surveys.
- Criteria of good research, Planning of research –Selection of a problem for research, Formulation of selected problem, Hypothesis, Research design

Unit II Research Methods

[11 Hours]

Learning Outcome-

✓ *The students will understand various methods of research and their applicability*

- **Review of Literature** – Need for reviewing literature, what to review and for what purpose, Literature search procedure, Sources of literature, Note taking, Identification of Research Gap.
- **Data Collection Method-** Choice of methods for data collection, Observation-Types of observation. Experimentation- Planning and conducting experiment, Types of experiment- Laboratory and field, Interview – Definition, Characteristics and Types of Interviews-Structured, Unstructured, Focused, Clinical, Depth, Interviewing Process-Preparation, Introduction, Developing rapport, Carrying the interview forward, Recording interview and Closing interview. Content Analysis-Meaning, Procedure, Recording units and applications.

- **Tools for Data Collection-** Tools-Observation Schedule, Interview guide, Interview schedule, Questionnaire, Rating Scale, Check List, Opinionnaire, Data Sheet, Schedule for institutions, Inventories.

UNIT-III Sampling Techniques, Field Work and Report Writing [11 Hours]

Learning Outcome-

- ✓ *The students will be able to understand various sampling techniques in research*
- ✓ *The students will develop skills of preparing research proposal and writing research report scientifically.*
- **Sampling-** Concept of population and sample, Characteristics of a good sample design. Basis of sampling, Sampling Techniques and Methods- Probability sampling -Simple Random sampling, Stratified sampling ,Systematic random sampling, Cluster, Area sampling ,Multi-stage sampling. Non- Probability Sampling–Convenience sampling, Purposive sampling, Quota sampling and Snow-ball sampling.
- **Field Work-** Nature of field work, Selection and training of investigators, Sampling frame, Field operations and Field administration.
- **Report Writing** – Research report format- Report outline, Prefatory items. Body of the report-Introduction Design of the study, Result ,Findings and Discussion, Summary, Conclusions and Recommendations, Terminal items- Bibliography ,Appendix , Style sheet- APA .

UNIT-IV Activities to Be Conducted

[11 Hours]

Learning Outcome-

- ✓ *Students will gain hands-on experience on application of research methodology*
- Identify the research gap through the review of literature.
- Collect data on a researchable topic through schedule questionnaire.
- Prepare a project report within one thousand words.
- Visit any organization and prepare a report by using case study method.
- Prepare a list of references on a topic by following APA style sheet.

Text books

1. C. R Kothari and Garg G, Research Methodology: Methods and Techniques , New Age International Publishers, Pvt ltd , New Delhi.
2. C. R Kothari and Garg G ,Research Methodology: Methods and Techniques , New Age International Publishers .,Pvt ltd , New Delhi
3. O. R Krishnaswami and M .Ranganatham, Methodology of research in Social Sciences. Himalaya Publishing House.

Reference Books:

1. Kumar R , Research Methodology,
2. Education and Communication for Development , O.P Dahama, O.P . Bhatnager.

E-resources:

1. <https://ccsuniversity.ac.in/bridge-library/pdf/Research-Methodology-CR-Kothari.pdf>
2. <https://ebooks.inflibnet.ac.in/antp13/chapter/research-process-and-design/>

Subject Teacher- Any Teacher with Ph.D.

Sample Question

1. What do you mean by research? [1 mark]
2. Differentiate between fundamental and applied research? [2 mark] [Within 50 words]
3. Explain various steps of research proposal. [5 mark] [within 300 word]
4. Discuss the characteristics of good sampling and briefly explain about various types of probability sampling. [8 mark] [within 500 to 800 words]