



SYMBIOSIS COLLEGE OF ARTS & COMMERCE
 An Autonomous College | Under Savitribai Phule Pune University
 Reaccredited 'A+' with 3.51 CGPA For Third Cycle By NAAC | College with Potential for Excellence

COURSE TITLE Approaches to Research Methodology

Course Learning Outcomes:

On successful completion of the module students will be able to:

1. To introduce and discuss various approaches, strategies, and data collection methods relating to research in social sciences.
2. To equip and aid the learners to select the appropriate methodology, to collect data based on different data collection methods and to select and use the appropriate tests.
3. To familiarize the student with the nature of research tools and writing skills.
4. To enable the student to present a good research proposal.
5. To empower the student with the knowledge and skills they need to undertake research projects, to present research papers and to write quality articles.

Gist of this course in maximum 3 to 4 lines

The course will enable the learners to be aware of the various components of the research framework, to evaluate and review the literature and will familiarize the learners with the appropriate methods in research writing.

| Unit | CONTENTS OF THE COURSE | No. of Lectures |
|-----------|---|-----------------|
| 1. | Introduction to Research Methodology 1.1 Meaning and importance of Research – 1.2 Types of Research – 1.3 Selection and formulation of Research Problem 1.4 Objectives of research 1.5 Various Stages of a Research 1.6 Formation of Hypothesis 1.7 Research Design: – Features of a good Research design - Need – Features- Developing Models | 20 |
| 2. | Analysis of Literature Review – 2.1 Sources– critical evaluation of Literature Review 2.2 Organizing Literature Review with reference management tools – Mendeley and Zotero 2.3 Writing a Literature Review 2.4 Finding research gaps | 10 |
| 3. | Descriptive Statistics and Graphical Representation: | 10 |

| | | |
|---|---|-----------|
| | <p>3.1 Methods of data collection</p> <p>3.2 Measures of central tendency- Measures of dispersion – Skewness & Kurtosis</p> <p>3.3 Graphical representation of data – Types of Bar Charts Scatter Plots, Box plots, pp plots and qq plots</p> | |
| 4. | <p>Application and Selection of Appropriate Parametric Test Non - parametric tests</p> <p>4.1 Parametric Tests:</p> <ul style="list-style-type: none"> • Large sample tests • Small sample test • Chi square test • Application of ANOVA <p>4.2 Non- parametric tests:</p> <ul style="list-style-type: none"> • Sign Test • Signed rank test. • Wilcoxon test • Kruskal Wallis test • Run test. | 12 |
| 5. | <p>Mechanics of Writing a Research Paper and Research Proposal:</p> <p>5.1 Structure of Research Paper and Research Proposal</p> <p>5.2 Selection of research topic</p> <p>5.3 Structure and components: Abstract, Introduction – Rationale, Objectives, Methodology – Time frame and work plan - Data Analysis – Inferences</p> <p>5.4 Referencing Styles</p> <p>5.5 Ethics: Citation and Acknowledgement - Reproducibility and accountability- Plagiarism – AI based Plagiarism</p> | 8 |
| | Total Number of Hours | 60 |
| Teaching Methodology | <p>1. Lecture Method</p> <p>2. Group discussions, debates, case studies, educational and industrial visits.</p> <p>3. Class presentations, Flip Classrooms, Technology enabled learning.</p> | |
| Recommended Readings | | |
| <ul style="list-style-type: none"> • Basotia G.R. Sharma K.K. – Research Methodology. • Bawarshi, Anis S. & Reiff, Mary Jo. Genre: An Introduction to History, Theory, Research, & Pedagogy. Parlor Press, 2010. • Booth, Wayne C., Gregory G. Colomb, and Joseph M. Williams. The Craft of Research. University of Chicago press, 2003. • Caivery, R. & Nayak V.K. Research Methodology. S. Chand, 2005. | | |

- Devendra Thakur – Research Methodology in Social Sciences.
- Ellis, Jeanne. Practical Research Planning and Design. Ormond Merrill, 2010.
- Goode and Halt – Methods in Social Surveys and Research.
- Gupta S.C. and V.K. Kapoor (1993) Fundamentals of Applied Statistics, S.Chand and Sons
- John W. Creswell (2013) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, 4th Edition, Sage Publishing Inc.
- Kothari C. R., Research Methodology: Methods and Techniques (Second Revised Edition), New Age International Publishers.
- Krishnaswamy, O.R. and Ranganathan, M. (2005) Methodology of Research in Social Research
- Merriam and Tisdell (2015), Qualitative Research: A Guide to Design and Implementation 4th Edition
- Moser and Kolton – Survey Methods in Social Investigations.
- Sadhu and Singh – Research Methodology in Social Sciences.
- Sharma Prasad and Satyanarayana (ed) Research Methods in Social Sciences.
- Thanulingom, N. (2000), “Research Methodology” Himalaya Publishing House
- Wilkinson & Bhandarkar: Methodology & Techniques of Social Research- Pauline, Young – Scientific Social Surveys and Research.

Suggested Readings:

- Abdul Rahim, F. Thesis Writing: A Manual for Researchers. New Delhi: New Age International, 2005
- Adam Sirjohn, Research Methodology: Methods & Techniques. Delhi: New Age International Ltd, 2004.
- Ahuja, Ram. Research Methods. Rawat Publications, 2001.
- Gorman, G. E. and Clayton, Peter. Qualitative Research for the Information Professionals. London: Facet Publishing, 2005.
- Kothari, C.R. Research Methodology: Methods & Techniques. Delhi: New Age International Ltd, 1985.
- Oakman, Robert L. Computer Method
- Rajanan, B. Fundamentals of Research. ASRC Hyderabad, 1968.
- Sameer, Kumar. Research Methodology. Springer: US., 2005.