

**SANT GADGE BABA AMRAVATI UNIVERSITY**

**Ph.D. COURSE WORK**

**FACULTY OF HUMANITIES**

**SUBJECT: GEOGRAPHY**

**RESEARCH METHODOLOGY**

| <b>Teaching &amp; Examination Scheme</b> |                           |
|------------------------------------------|---------------------------|
| <b>Teaching Scheme</b>                   | <b>Examination Scheme</b> |
| Lectures: 02 Hrs/week                    | Theory: 30 Marks          |
| Credits: 02                              | --                        |
| Duration: 2 Hours                        | Total: 30 Marks           |

**Course Objectives:**

- To understand the nature, scope and significance of geographical research and its methodology.
- To equip scholars with skills to undertake systematic literature review and formulate researchable geographical problems.
- To familiarize scholars with both quantitative and qualitative methods of data collection including field surveys, remote sensing, GIS, and cartographic techniques specific to Geography.
- To enable scholars to apply statistical and geospatial tools for data analysis and interpretation.
- To develop skills in scientific writing, thesis preparation, map preparation, and academic communication.
- To create awareness about research ethics, intellectual property rights, plagiarism, and UGC regulations applicable to geographical research.
- To train scholars in the use of ICT tools and geospatial technologies (GIS, GPS, Remote Sensing) relevant to geographical investigation.

**Course Outcomes:**

- Understand the principles and methods of geographical research.
- Formulate research problems and research designs in geography
- Collect and analyze geographical data using appropriate techniques.
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**Unit I : Introduction to Geographical Research:**

**(8 Hrs.)**

1. Meaning, Nature and Scope of Geographical Research
2. . Importance of Research in Geography
3. . Types of Geographical Research: Physical and Human Geography
4. Scientific Method in Geographical Studies

**Unit II: Research Design and Problem Formulation:**

**(7 Hrs.)**

1. Identification of Research Problems in Geography
2. Research Objectives and Hypothesis

3. Research Design and Review of Literature

4. Selection of Study Area

**Unit III: Data Collection Techniques in Geography:**

(8 Hrs.)

1. Sources of Geographical Data: Primary and Secondary

2. Field Survey Methods

3. Observation, Interview and Questionnaire Techniques

4. Sampling Methods in Geographical Research

**Unit IV : Data Analysis and Report Writing:**

(7 Hrs.)

1. Classification and Tabulation of Geographical Data

2. Use of Maps, Graphs and Diagrams in Research

3. Basic Statistical Techniques: Mean, Median and Mode

4. Research Report Writing and Presentation

**Reference Books:**

1. **C.R. Kothari**, Research Methodology: Methods and Techniques, New Age International, New Delhi, 2004.
2. **Ranjit Kumar**, Research Methodology: A Step-by-Step Guide for Beginners, SAGE Publications, 2011.
3. **R.B. Singh**, Methodology of Geographical Research, Rajesh Publications, New Delhi, 2002.
4. **B.N. Sharma & S. Negi**, Geography Research Methods, National Book Trust, New Delhi.
5. **P.L. Bhandarkar & T.S. Wilkinson**, Methodology and Techniques of Social Research, Himalaya Publishing House, Bombay.
6. **Anji Reddy M.**, Textbook of Remote Sensing and Geographical Information Systems, B.S. Publications, Hyderabad, 2008.
7. **P.V. Young**, Scientific Social Surveys and Research, Prentice Hall of India, New Delhi, 1962.
8. **H.V. Deshpande**, Research in Social Sciences: Areas and Methodology.
9. **Census of India Reports**, Office of the Registrar General and Census Commissioner, India (latest editions).
10. **डॉ. वि. रा. भिंताडे**, शैक्षणिक संशोधन पद्धती, डायमंड पब्लिकेशन्स, पुणे, 2018
11. बोधनकर, सुधीर; अलोणी, विवेक; कुलकर्णी, मृणाल, सामाजिक संशोधन पद्धती. श्री साईनाथ प्रकाशन, नागपूर
12. डॉ. शैलजा सांगळे – संशोधन पद्धती
13. डॉ. बी. आर. जोशी – सामाजिक संशोधन पद्धती
14. डॉ. सु. दा. गोरे – संशोधन पद्धती व तंत्रे
15. डॉ. प्र. न. परांजपे – भौगोलिक संशोधन पद्धती
16. डॉ. एस. व्ही. कुलकर्णी – संशोधन पद्धती