

General Elective (GE): 04 Credits

GE (I.5.1) Foundations of Research Methodology General Elective

1. Credit Distribution of the Course

Course title & Code GE (I.5.1)	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Foundations of Research Methodology	4	3	1	0	Undergraduate	-

2. Learning Objectives

The paper focuses on idea of research in education and various research designs highlighting the quantitative and qualitative methods of data collection and data analysis. It also sensitizes students into the challenges of carrying out research in the field of education. Students are expected to do micro research project in educational setting to connect theory into practices.

3. Learning Outcomes

- elaborate the role of research as a systematic inquiry;
- explain qualitative and quantitative research paradigms and their applications;
- understand the need, types and process of literature review;
- analyse various research designs and methodologies;
- design appropriate research tools and techniques ensuring reliability, validity, and objectivity;
- develop research plan, hypothesis formulation, tool development, data collection, and analysis;
- design and present a research proposal applying theoretical knowledge to practical research challenges.

4. Syllabus

Unit I: Introduction to Educational Research - Research as source of inquiry, role of research in the field education, qualitative and quantitative paradigms of research, Types of research (experimental, descriptive and action research); Role of theory in research. [12 hours]

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Unit II: Research Paradigms and Design - Research design in educational research, sampling and techniques in data collection and data analysis, objectivity, reliability, validity and statistical inferences. **[12 hours]**

Unit III: Understanding Research Processes - Steps in carrying out research, research planning, writing proposal, review of literature, hypothesis, tools design, data collection and analysis, report writing. **[12 hours]**

Unit IV: Learning to write research proposal - Writing and defending a research proposal/ Micro research project. **[9 hours]**

5. Tutorial Details - Design Your Own Mini Research Project: Students are expected to do micro research project in educational setting to connect educational theory into practices.

6. Essential Readings

- Best J. & Kahn J. (2012). *Research in Education*, PHI learning Private Limited.
- Reason P. & Bradbury H. (Eds.) (2006). *Handbook of Action Research*. Thousand Oaks, CA: Sage.
- Cohen L., Manion L. & Morrison K. (2003). *Research Methods in Education*, Taylor & Francis
- Fraenkel J.R., Wallen N.E. (1996). *How to Design and Evaluate Research in Education*, New York: McGraw Hill.

7. Suggestive Readings

- Stake R. E. (1995). *The Art of Case Study Research*, Sage.
- Christensen L. (2007). *Experimental Methodology*, Boston: Allyn & Bacon.
- Borg W.R. & Gall M.D. (1983). *Educational Research – An Introduction*, New York: Longman, Inc.
- Sharma S.R. (2003). *Problems of Educational Research*. New Delhi: Anmol Publication.
- Opie C. (2004). *Doing Educational Research- A Guide for First time researchers*. New Delhi: Vistar Publications.