**Research Methods in Education**

**Course Code:** EDU-606 **Credit Hours:** 03

**Introduction:**

This course is designed for MA Education candidates to prepare them to situate themselves as researching professionals and at the same time enhance their own professional practice. Students will engage in a critical analysis of different research work and relate it to their own context. The units provides students with the opportunity to engage with the research literature and to establish how different researchers techniques help improve the overall classroom situation

**Objectives:**

At the end of the course, the learners will be able to

* Discuss the meaning, nature & scope of research in education
* Situate themselves as researching professionals
* Conduct research in different educational settings
* Write research report and present it effectively

**Course Outline**

1. **The Nature of Educational Research**
   1. Definitions of Educational Research
   2. Scope and importance
   3. Scientific method
   4. Research problem and topic
   5. Characteristics of research problem
2. **Concepts, Constructs and Variables**
   1. Concepts and constructs : Definition and examples
   2. Operationally defining a construct.
   3. Variables: Definition, types and control Variables, Independent, dependent, moderating, intervening, categorical, continuous, active, attributive
3. **Hypotheses and Research Questions**
   1. Hypothesis and Types of hypotheses
   2. Testing the Hypothesis
   3. Objectives and hypotheses
   4. Research questions
4. **Data Collection Tools**
   1. Development of Research tools: Questionnaire, observation schedule, interview, and rating scales
   2. Validity and Reliability
   3. Data collection procedure
   4. Pilot testing
5. **Types of Educational Research**
   1. Types of Research: Qualitative and quantitative
   2. Descriptive Research
   3. Correlation Research
   4. Experimental Research
   5. Historical Research
   6. Action Research
6. **Literature Review**
   1. Need and Importance
   2. Primary sources
   3. Secondary sources
7. **Methodology**
   1. Population
   2. Sampling and its Types
   3. Instrument
   4. Data collection procedure
8. **Data Analysis**
   1. Descriptive
   2. Inferential
9. **Research Proposal**
10. **Report Writing**
    1. Writing formats & Presentation
    2. Referencing

**Recommended Books:**

Crtswell, J. W (2009). *Research Design”,* London: Sage Publications.

Fraenkel, J. & Norman, E. (2005) *How to Design and Evaluate Research* (8th edition) London: SAGE Publications.

Block, T.R. (2002.) *Understanding social science research.* London: SAGE Publications.

Cohen, L. & Manion, L. (1991). *Research methods in education***.** London: Routledge.

Gay, L.R.(1998). *Educational research: Competencies for analysis and applications .* (5th ed.) N.Y: Merrill- Prentice Hall.

Goode, W.J. and Halt, P.K. (1981). *Methods in social research.*Auckland: McGraw-Hill.

Murray, R. (2002). *How to write a thesis***.** Buckingham: Open University Press.

Wiersma, W. (1995). *Research methods in education: An introduction.*Boston: Allyn and Bacon.