

**NAGALAND UNIVERSITY**  
**DEPARTMENT OF EDUCATION, KOHIMA CAMPUS, MERIEMA-797004**  
**Ph.D. Programme in Education (Syllabus for Course work)**

*The Ph.D. Course Work in Education will comprise of four papers/ 16 credits*

Paper-I: Methodology of Educational Research (4 credits)

Paper-II: Statistics in Educational Research (4 credits)

Paper-III: Education, Research and Publication Ethics (4 credits)

Paper-IV: Presentations: Research Proposal/Seminar papers (4 credits)

The four papers will be completed in one semester (6 months). It is suggested that evaluation be done internally.

**Course Objectives:**

The course work for admission to Ph.D. registration in Education will enable the scholars to acquire-

- i) The knowledge and awareness about the concept of research and the latest methods and approaches to conduct research.
- ii) To strengthen the knowledge of scholars of sampling methods, hypothesis and research tools and psychological tests to collect suitable data for their research from both the primary and secondary sources.
- iii) Empower the scholars with computer applications in research particularly in the use of EXCEL Power Point and SPSS.
- iv) Provide information and trends of research in Education in the State and Offer practical knowledge of area studies and the different research agencies in the field of Education.
- v) Empower the scholars to prepare research proposals in the concerned area of their interest and specialization.

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**Ph.D. Programme in Education**

**Paper-I: Methodology of Educational Research** (4 credits)

**Unit-I: Introduction to Research**

- Concept and nature of Educational Research
- Types of Research Historical, Experimental, Survey and descriptive research
- Criteria of good research

**Unit-II: Review of Related literature**

- Need and Important of review of related literature
- Different sources of review
- Bibliography/reference styles

**Unit-III: Objectives, Research Questions and Hypotheses**

- Formulation of research objectives
- Formulation of research questions
- Formulation of Hypotheses and its testing

**Unit-IV: Collection of Data and Sampling**

- Research tools: Questionnaires, Interview schedules, standardized tools etc.
- Sampling Techniques: Probability and Non-probability

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**Paper-II: Statistics in Educational Research (4 credits)**

**Unit-I: Introduction to Statistics**

- Concept and uses of Statistics in Educational Research
- Probability Curve (NPC) and its applications
- Differences between descriptive and inferential statistics.

**Unit-2: Qualitative Data Analysis**

- Qualitative Data collection, its organization and presenting data
- Data Triangulation and its types
- CAQDAS, Content Analysis, SWOT analysis

**Unit-3: Quantitative Data Analysis**

- Descriptive Analysis
- Inferential Analysis (t-test, ANOVA, ANCOVA, MANOVA, MANCOVA, Correlation, Chi- Square, Regression, SEM)

**Unit-IV: Data interpretation**

- Qualitative data interpretation
- Quantitative data interpretation

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## **Paper III: Education, Research and Publication Ethics (4 credits)**

### **Unit –I: Research in Education: An overview**

- Status & trends of Research in the State
- Problems and issues related to research in education (Elementary Education, Communitization, HIV AIDS, Juvenile delinquency, Women empowerment, etc.)
- Perspectives of NEP 2020 in higher education and research
- Philosophy and Ethics in Educational Research

### **Unit-II: Scientific conduct**

- Ethics in Educational Research-Intellectual Honesty and Research Integrity
- Scientific misconducts- falsification, fabrication, and plagiarism (FFP),
- selective reporting and misrepresentation of Data
- Redundant Publications: Duplicate and overlapping publications, salami slicing

### **Unit –III: Publication Ethics**

- Scientific steps in the publications of manuscripts
- Publication Ethics- concept and importance; violation, authorship and contributorship
- Publication Misconduct- concept, unethical behavior, types of misconduct, identification
- Predatory publishers and Journals

### **Unit –IV: Practical Activities**

- Reference Management System (RMS)
- Open access publications and initiatives
- Journal Finder, journal suggestion tools {JANE, Elsevier Journal Finder, Springer, Journal suggester etc.}
- Publication Misconduct: Group Discussion on relevant topic; Paper Presentation on relevant topic; Checking for plagiarism using software tools like Turnitin, Urkund etc

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## **PAPER IV: Presentations: Research Proposal/Seminar papers (4 credits)**

### **Preparation of a Synopsis/ Research Proposal**

1. Introduction/conceptual framework
2. Review of literature
3. Methodology
  - a. Need/Significance/Rationale
  - b. Statement of a problem
  - c. Operational definitions of key terms
  - d. Research questions/Hypotheses
  - e. Objectives
  - f. Method and Design
  - g. Population & Sample' Sampling
  - h. Research Tools
  - i. Data collection procedure
  - j. Delimitations
  - k. Ethical consideration
4. Analysis and Interpretation
5. Findings, Discussions & Conclusions
6. Suggestions/ Educations implications/ suggestions for further research
7. Bibliography/references and Appendix

### **Suggested Activities:**

- Preparation of Research Proposal
- Reference management system (APA, MLA, Chicago, etc.)
- Writing a review-based article
- Presentation of Synopsis using power point
- Presentation of two seminar papers/term papers using power point

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