

NAGALAND UNIVERSITY

DOCTOR OF PHILOSOPHY (Ph.D.) Course Structure & Syllabus Revised in 2023(New)

**DEPARTMENT OF TEACHER EDUCATION
NAGALAND UNIVERSITY
KOHIMA CAMPUS, MERIEMA, KOHIMA
NAGALAND-797 004
<https://kohima.nagalanduniversity.ac.in/teach>**

Ph.D. Programme

Course Structure

The Ph.D. Course Work in Teacher Education comprises of four papers. The structure of the Ph.D. Course work for one-semester (6 months) shall be as follows:

Paper Code	Title of the Course	Credit	Internal	External	Total
Ph.D.TE :101	Advanced Research Methods in Education	5	30	70	100
Ph.D.TE :102	Advanced Statistics in Education	5	30	70	100
Ph.D.TE :103	Recent Trends and Approaches in Education	5	30	70	100
Ph.D.TE :104	Research and Publication Ethics & Presentations: (Research Proposal/Seminar Papers)	5	30	70	100
	Total	20	120	280	400

Course Work Syllabus

Ph.D.TE:101: Advanced Research Methods in Education

Unit-I: Introduction to Research

- Sources of Knowledge
- Meaning, importance, and process of research in education
- Types of Research
- Criteria of a good research
- Research problem and Hypothesis
- Review of Related Literature and Meta analysis
- Preparation of Research Proposal, Format of Different Research report, Preparation of Summary and abstract, Bibliography and referencing

Unit-II: Approaches to Research

- Quantitative Research: Descriptive research, Experimental Research and Various designs, Ex-Post facto research.
- Qualitative research: Ethnography, Phenomenology, Grounded theory, Case study, Historical Method and Content analysis
- Mixed Method: Concept, importance and Designs

Unit-III: Sampling, Tools & Techniques in Research

- Concept of population and sample, types and techniques of Sampling, Sampling errors
Tools and techniques – observation, interview, inquiry forms, scaling techniques, rating scale, attitude scale, psychological tests and projective techniques, sociometry development and standardization of research tools, Characteristics of the tools: item analysis, reliability, validity and usability.

References

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- Elliott, Jane (2005). Using Narrative in Social Research: Qualitative and Quantitative Approaches. SAGE Publication.
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- Jill Porter & Penny Lacey (2005). Researching Learning Difficulties- A Guide for Practitioners. Paul Chapman Publishing.
- Scott, David & Usher, Robin (1996). Understanding Educational Research. Rout

Ph.D.TE:102: Advanced Statistics in Education

Unit-I: Introduction to Statistics

- Concept and use of Statistics in Educational Studies
- Measures of Central Tendencies, Measures of Variability and its applications

Unit II: Advanced Statistical Techniques

- Correlation: Meaning, Computation and Interpretation of Linear correlation, Product-Moment Correlation, Rank Order Coefficient of Correlation, Point Biserial, Cramer's V correlation
- Inferential Statistics- Standard error; one-tailed and two-tailed test; type 1 and type 2 error, Z-test, t-test, F-test/ANOVA, ANCOVA, MANOVA, MANCOVA and Regression Analysis

Unit III: Non-parametric statistics in Education

- Application of Non-parametric test: Chi-Square Test, Median Test, Wilcoxon Test, Signed Test, Rank Test, Kruskal-waliks test, U –Test.
- Application of Statistical Software Packages (Parametric & Non-Parametric test): MS Excel, SPSS, etc.

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Ph.D.TE:103: Recent Trends and Approaches in Education

Unit I: Higher Education

- Meaning and scope of higher education, growth of higher education institutions in recent years in India
- Management and democratization of Higher education institutions – autonomy and decentralization in higher education
- Open distance learning (ODL): SWAYAM, MOOC, MOODLE and higher education repositories
- Funding Agencies for research: UGC, DST, CSIR, ICSSR, ICAR etc.
- Standards of Higher Education institutions – Accreditation agencies

Unit-II: Teacher Education

- Meaning and scope of teacher education – theory and practice – difference between training and education,
- Norms and Standards of Teacher Education in India: NCFTE 2009, NCTE Regulation 2014
- Role of different agencies in quality assurance of teacher development -DIETs, SCERT, CTE, IASE, NCERT, NUEPA, UGC, NCTE, NAAC
- Challenges in professional development of teachers – relevance to school education, improperly qualified teacher educators, assurance of quality of teacher education programmes - Code of profession ethics for teachers

Unit-III: Technological advancement in Education

- e-content: Meaning, Need and significance – Types and Forms of e-content - Difference between e-learning and e-content
- Mobile Learning, Flipped Classrooms, Open Educational Resource (OER)
- Web 2.0 Technologies and their educational implication: wikis, blogs, podcasts, social media, instant messaging - Google apps in education
- Online and offline assessment tools – survey tools, puzzle makers, test generators, reflective journal, question bank.

References

Higher Education

- Bell,R.E. & Younson A,J, (Eds) (1973). Present and Future of Higher Education. London:Tavistock
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Teacher Education

- Anderson, L.W. International Encyclopedia of Teaching and Teacher Education (Second Edition). Elsevier Science Ltd. Oxford. 1995.
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- Web sites of NCERT, NUEPA, NCTE, SCERT, NAAC

Technological Advancement in Education

- Agarwal, J.C. (1995) Essential of Educational Technology: Teaching Learning Innovations in Education. Delhi: Vikas Publishing House (P) Ltd.
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Ph.D.TE:104: Research and Publication Ethics & Presentations: (Research Proposal/Seminar Papers)

Unit-I: Philosophy, Ethics and Scientific Conduct

- Introduction to Philosophy: definition, nature and scope, concept, branches
- Ethics: Definition, moral philosophy, nature of moral judgments and reactions.
- Ethics with respect to science and research
- Intellectual honesty and research integrity
- Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
- Redundant publications: duplicate and overlapping publications, salami slicing
- Selective reporting and misrepresentation of data

Unit-II: Publication Ethics

- Publication ethics: definition, introduction and importance
- Best practices/standards setting initiatives and guidelines: COPE, WAME etc.
- Conflicts of interest
- Publication misconduct: Definition, concept, problems that lead to unethical behavior and vice versa, types
- Violation of publication ethics, authorship and contributorship
- Identification of publication misconduct, complaints and appeals
- Predatory publishers and journals

Unit-III: Open Access Publishing, Databases and Research Metrics

- Open access publications and initiatives
- SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies
- Software tool to identify predatory publications developed by SPPU
- Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

- Databases: 1. Indexing databases 2. Citation databases: Web of Science, Scopus etc.
- Research Metrics: 1. Impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score 2. Metrics: h-index, g index, i10 index, altmetrics

Practicum

- A. Group Discussions: 1. Subject specific ethical issues, FFP, authorship 2. Conflicts of interest 3. Complaints and appeals: examples and fraud from India and abroad
- B. Software tools: Use of plagiarism software like Turnitin, Urkund and other open-source software tools
- C: Research Proposal/Seminar papers

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