

Ph.D. PROGRAMME IN PALI
(COURSE WORK ON RESEARCH METHODOLOGY)

Samrat Ashok Subharti School of Buddhist Studies facilitates the programs leading to doctoral degrees in Pali. Following are the eligibility criteria and requirements to obtain Ph.D. degree from the School of Buddhist Studies:

Name of the Program: Ph.D. in Pali.

Duration: 3 year (6 Semesters)

Minimum Qualification for Admission: Postgraduate Degree with minimum 55% for Gen/OBCs and 50% for SCs/STs is required to be eligible to apply for the admission. However, the admission will be based on merit and candidates will be selected as per the guidelines of the UGC and availability of vacant seats under the faculty members. Reservations in the admission will be fulfilled as per the Government policy.

Total Required Credits: 16 credits are required from the coursework.

Courses work for Ph.D. Program*:

All students enrolled in Ph.D. programs are required to opt for the following mandatory courses. In order to proceed to research on a specific topic with the consultation of a Supervisor, students are expected to do the course work.

SEMESTER I

Course Code	Courses	Credits
CW- 005	Introduction of Pali Language , Literature , Art & Culture.	04
CW- 006	Statistical Tools, Research Publication Ethics and IPR	04
CW- 007	Advanced Research Methodology and Computer Applications	04
CW- 008	Research Proposal in Pali	04
		16

SEMESTER II To VI

Thesis
Viva-Voce

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SEMESTER I

**Paper Code: Ph.D.- CW-005 Introduction of Pali Language , Literature , Credits:-04
Art & Culture. (60 Hours)**

- (a)-Pali language with special reference to its Origin, Characteristics & Grammar.
- (b)-Pali literature- Canonical & Post Canonical.
- (c) Art & Culture.
- (d)-Origin & development of Pali Language & its important Literature.
- (e)-Introduction of the Pali Sutta.

**Paper Code: Ph.D.- CW-006 Statistical Tools, Research Publication Ethics Credits:-04
and IPR (60 Hours)**

Unit I. Philosophy and Ethics & Scientific Conduct

1. Introduction to Philosophy of Research: definition, nature and scope, concept of research
2. Ethics: Definition, moral philosophy, nature of moral judgments and reactions.
3. Ethics with respect to science, technology and research
4. Intellectual honesty and research integrity
5. Scientific misconducts: Falsification, Fabrication and Plagiarism, how to escape plagiarism, AI tools in research integrity
6. Redundant publications: duplicate and overlapping publications, salami slicing
7. Selective reporting and misrepresentation and manipulation of data

Unit II. Publication Ethics

1. Publication ethics: definition, introduction and importance
2. Best practices/standards setting initiatives and guidelines: COPE, WAME etc., ethical clearance, Subject specific ethical issues, FFP, authorship, Conflicts of interest.
3. Violation of publication ethics, authorship and contributorship
4. Identification of publication misconduct, complaints and appeals
5. Predatory publishers and Journals, Approved and peer reviewed Research journals, Software tool to identify predatory publications developed by SPPU: UGC-CARE list of journals
6. Indexing online resources to check publisher's copyright & self-archiving policies, Open access publications and initiatives SHERPA-RoMEO online resource to check publisher copyright and self-archiving policies.
7. Journal finder/Journal suggestions viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.
8. Use of reference management software and anti-plagiarism software like Urkund (Original), Turnitin and similar software.

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9. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types, Misconduct Publication of Research, open access publications and initiatives.

10. What is a good quality research paper in Science, Art and Humanities, Management, medical Science, engineering and other subjects, how to identify a good research journal for publication of good quality of research.

Unit III. Writing Of Good Quality Research Papers:

1. how to write a good paper, interpretation of good research, presentation of data, original research, validation of original data, protection of original research, effect of publication of original research on patent filing.

2. Drafting Scientific Manuscript, Key aspects of drafting of scientific manuscript (Novelty, Social Relevance / National Importance, Credibility / Credential of Research Scholar, Drafting skills of Research Scholar), common content errors, useful resources, background (author's perspective)

3. Author Publishing priorities, Identification of journal, Author Priorities for Journal Selection, Reader's priorities, ethical issues, style and language, article submission process, Manuscript Template, Title of the Manuscript, Title page, Abstract, Introduction, Experimental Details, Material and Methods, Statistical Methods, Results, Tables and Figures, Discussion, Acknowledgements/Funding, Reference section, General rules, After Submission, Overview of Peer Review Process, Publishing guidelines, Final advice

Unit IV. Databases and Research Metrics

1. Indexing databases, Citation databases: Web of Science, Scopus etc.
2. Impact factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
3. Research Metrics: h-index, g-index, i-10 index, altmetrics Altmetrics, Google Scholar, Research Gate, Pub-med etc. and other similar indexes
4. Strategies to increase citation by registering on various platforms

Unit V. A. Statistical Tools and Statistically Analysis of Data

1. Analysis and interpretation of Data, Measurement of central tendency – mean, mode, median, arithmetic mean, geometric mean, Standard Deviation, p value Correlation and Regression. Test of significance: Chi square, t test, test z and f test

2. Hypothesis testing – null hypothesis, alternate hypothesis, acceptance/ rejection of null hypothesis, Probability Theories – Conditional Probability, validity, reliability testing, Normal distribution curve, dispersion, skewness, Parametric statistical testing – Pearson correlation, paired t-test, unpaired t-test, Coefficient of variation, Non-parametric statistical testing – Mann Whitney U test, Wilcoxon sign test, Kruskal Wallis test, Friedman test, ANOVA, ANCOVA.

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B. Intellectual Property Rights:

1. History of intellectual property and various conventions governing IPR, Key concepts of copyright and trademarks law, Key concepts of patent law
2. Advisory on filing and prosecuting copyright, trademark application and Patent application applications, IPR registration/ indexing (Copy right & Patent)

Reference Books:-

1. Bird, A. (2006). Philosophy of Sciences. Routledge
2. MacIntyre, Alasdair (1967). A Short History of Ethics. London
3. P. Chandah. (2018). Ethics in Competitive Research: Do not get scooped; do not get plagiarized.
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009).
5. Deborah E. Bouchoux, Intellectual Property: The Law of Trademarks, Copyrights, Patents, and Trade Secrets, Delmar Cengage Learning.

Paper Code: Ph.D.-CW-007

Advanced Research Methodology and Computer Applications

**Credits:-4
(60 Hours)**

UNIT-I: - Introduction to Research

1. Introduction
2. Meaning, Scope, and Objectives of Research, Scientific/Literary Methods of Research
3. How to plan and do research (identification of research gaps, planning and strategies for doing high-quality research)
4. Types of Research
5. Different sources of Information/Scientific Literature/ Selection and storage of relevant references and data
6. Current trends in Research (Multidisciplinary, interdisciplinary and quasi-disciplinary and trans-disciplinary research)
7. Research Process

UNIT-II: - Research Planning Stage

1. Identification, Selection and formulation of Research Problem, brainstorming, Necessity of Defining the Problem, technique Involved in Defining a Problem
2. Survey of available Literature and Bibliographical Research, Use of search engines, Formulation of keywords/variables/phrases for elementary literature review, significance and social relevance with national and international importance
3. Developing a Research Plan and Research Proposal: Research Design, Meaning of Research Design, Need for Research Design, Important Concepts Relating to Research Design, Different Research Designs, Basic Principles of Experimental Designs, Design of experiment or inquiry
4. Hypothesis of a research problem: What is a Hypothesis? Basic Concepts Concerning Testing of Hypotheses, Procedure for Hypothesis Testing, Tests of Hypotheses: Testing of

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Hypotheses-I (Parametric or Standard Tests of Hypotheses), Variables: Definition, Types and Measurement of Variables

5. Sampling and Population: Identification of the 'Suitable Population' for the study and of 'Sampling' procedures, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, How to Select a Random Sample, Random Sample from an Infinite Universe, Complex Random Sampling Designs, Population

UNIT-III:-Research Implementation Stage

1. Data Collection and Analysis: Basic Tools and Methods of Data Collection, Types of Data Survey and Sampling (Collection of Primary Data Interview, Interview Method, and Interview Schedule, Questionnaire, validation of questionnaire, difference between

Questionnaires and Schedules confidentiality statement, Observations, Population size and sample size, e-interview/online interview and data collection tools, scientific storage of data for research Collection of Secondary Data),

2. Data Presentation: Tabulation and graphical Presentation: Tables, Charts and Graphs

UNIT-IV:-The Computer and Its Role in Research:

1. The Computer and Computer Technology: The Computer System, Important Characteristics, Computer Applications, Computers and Researcher, Use of Computer Database.

2. Spreadsheet tool: Introduction to spread-sheet applications, features & functions, using formulae & functions (data storing, features for statistical data analysis, generating charts/graphs & other features, pie diagrams, histograms, MS word/Excel, photography including GeoTag).

3. Presentation tool: Introduction to presentation tool, features & functions, creating presentations, Microsoft PowerPoint, Research presentation (PowerPoint presentation)

4. MS WORD: Text formatting, Type, MS Equation editor, INFLIBNET, e-journals, e-library, Scopus, Central blatt Math, Mathematical reviews.

5. Web Search: introduction to internet, Use of Internet Website, Webpage, E-mail, Search Engines, scientific search engines, using search engines using advanced search tools,. PDF and Latex files.

6. Data Communication and networks, LAN, WAN, GAN

7. Data and progress of use of online platforms in research: use of Google Meet, Zoom and other important online Platforms, meeting recording

UNIT-V: Synopsis/ Research proposal and Thesis Preparation:

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1. Synopsis preparation: structure and Format of synopsis, Research Report and drafting Research Proposal: Types of research reports: Pre-Ph. D. Synopsis / Synopsis for Projects (beginning), Ph. D. Synopsis/ Synopsis for Projects

2. **Research Proposals:** Title of Research Project, Abstract / Summary, Introduction / Background, Origin of the Proposal, Hypothesis, Goals and/or Objectives of Research, Specific Aims, Significance and Impact, Methodology, Work plan and schedule, Budget, All other Operating Grants, Ethical Considerations, Outcomes / Results and Beneficiaries, Bibliography / References and Annexures, Referees, Co-applicants, Applicant's CV details, General Thoughts, Format of UGC Project Proposal, Format of the Proposal under Extramural Research (EMR, ICMR) etc.

1. Scheme of SERB, DST, ICMR, ICSSR (other government agencies) research proposal format, Indian Research Funding Agencies, General Foreign or International Funding Agencies, Opportunities for Research Scholars.

2. **Research Report :** The Preliminaries, Structural outlay of research report, Introduction, Chapters and Sub-Headings, Presentation of Data, Discussion, Conclusion and recommendations Graphical and Tabular Presentation of Results, Conclusion and Future Directions, Acknowledgement, References Styles and Citation Credits, Footnotes (or Endnotes), Bibliography/ Web-bibliography/ Web-Link /References, Conflict of Interests, Appendix, Index, Finalization of the Research Report, Structure of Thesis/Dissertation Preparation

Reference Books:-

1. Methodology and Techniques- By T.S. Bhandarkars & T.S. Milkinson
2. Kumar, Renjith (2009) Research Methodology: A Step by Step Guide for Research, Delhi, Pearson Education.
3. Kumar, Shekaran (2009) Research Methodology for Busines : A Skill Based Approach,
 1. New York, John Wiley Publishers.
 2. Methods in Social Research – By William J. Goode & Paul K. Hatt.
 3. Development of Research Tools- By N.C. Gautam.
 4. Designs of social Research- By D.K. Lal Das.
 5. Doing quantitative Research in the Social Sciences-By Thomas R. Black.
 6. Research Methods in behavioral sciences-By S.M. Mosil.
 7. Legal Research Methodology-By Dr. H.N. Tiwari.
 8. Legal Research – William P. Satisfsky.
 9. Anderson J, Henry H Durston and Millicent Poole – Thesis and Assignment Writing. Wiley Eastern Ltd. New Delhi, 1977
 10. Katre, S.M. - Introduction to Indian Textual Criticism, Poona, Deccan College, 1954

Paper Code: Ph.D.-CW-008

Research Proposal in Pali

Credits:-4
(60 Hours)

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UNIT 1: Introduction to Research in Pali

1. **Definition, Nature, and Significance of Research in Pali.**
 - a. Understanding the role of research in preserving and analyzing Pali.
 - b. Importance of research in deepening the knowledge of Pali philosophy and history.
2. **Types of Research in Pali.**
 - a. **Historical Research:** Examining the evolution of Pali.
 - b. **Textual Research:** Analyzing Pali scriptures and manuscripts.
 - c. **Philosophical Research:** Studying Pali doctrines, logic, and epistemology.
 - d. **Applied Research:** Exploring Pali in contemporary social, psychological, and ethical contexts.
3. **Role of Interdisciplinary Approaches in Pali Research**
 - a. Integration of Linguistics, History, and Philosophy in Pali Studies.
 - b. Application of Digital Humanities and Comparative Religious Studies in Pali Research.

UNIT 2: Research Methodology and Ethics in Pali.

1. **Qualitative and Quantitative Research Methods**
 - a. Understanding the differences and applications of both methods in Pali research.
 - b. Techniques for conducting interviews, surveys, and statistical analysis in Pali.
2. **Primary and Secondary Sources in Pali Research**
 - a. Identification and utilization of ancient Pali texts, inscriptions, and artifacts.
 - b. Reviewing modern scholarly works, journals, and critical analyses.
3. **Field Research and Ethnographic Approaches**
 - a. Conducting on-site research at Pali heritage sites, monasteries, and communities.
 - b. Methods of participant observation and case studies in Pali research.
4. **Research Ethics and Plagiarism**
 - a. Understanding academic integrity and the consequences of plagiarism.
 - b. Importance of originality and proper citation in research.
5. **Sensitivity to Religious and Cultural Aspects in Pali.**
 - a. Ethical considerations while interpreting religious texts and practices.
 - b. Respecting cultural variations within different Pali traditions.

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6. **Ethical Concerns in Fieldwork and Interviews**
 - a. Obtaining informed consent from interviewees.
 - b. Ensuring accuracy and avoiding misrepresentation in research findings.

UNIT 3: Research Proposal Development and Literature Review

1. **Identifying a Research Problem**
 - a. Choosing a relevant and researchable topic in Pali.
 - b. Strategies for narrowing down a broad research area.
2. **Defining Research Objectives and Hypotheses**
 - a. Setting clear and achievable research goals.
 - b. Developing testable hypotheses based on literature and theoretical frameworks.
3. **Developing a Research Framework**
 - a. Structuring research questions and methodologies.
 - b. Understanding conceptual and theoretical frameworks in Pali.
4. **Structuring a Research Proposal**
 - a. Essential components of a well-structured research proposal.
 - b. Guidelines for drafting and formatting proposals.
5. **Importance of Literature Review in Research**
 - a. Understanding the role of literature review in shaping research direction.
 - b. Techniques for critically analyzing existing research.
6. **Techniques for Reviewing Pali Texts and Modern Research Papers**
 - a. Methods for interpreting primary Pali texts.
 - b. Approaches to synthesizing modern research findings.
7. **Academic Writing Style and Argument Development**
 - a. Principles of academic writing in Pali research.
 - b. Constructing logical and well-supported arguments.
8. **Citation and Referencing (APA, MLA, and Chicago Styles)**
 - a. Understanding different citation formats.
 - b. Properly citing Pali scriptures and academic sources.

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UNIT 4: Data Collection, Analysis, and Proposal Presentation

1. Methods of Data Collection

- Conducting surveys, interviews, and focus group discussions.
- Collecting and analyzing textual data from Pali scriptures.

2. Techniques for Analyzing Pali Texts and Manuscripts

- Applying hermeneutical and philological methods to ancient texts.
- Digital analysis tools for studying Pali literature.

3. Use of Digital Tools in Pali Research

- Utilizing databases, research software, and digital archives.
- Introduction to computational textual analysis in Pali.

4. Structuring the Final Research Proposal

- Assembling all research components into a coherent proposal.
- Ensuring clarity, coherence, and academic rigor.

5. Presentation Techniques for Academic Conferences

- Strategies for effectively presenting research findings.
- Using visual aids and structuring presentations for impact.

6. Peer Review and Feedback Process

- Understanding the importance of peer review in academic research.
- Techniques for receiving and incorporating constructive feedback.

7. Submission and Evaluation of Research Proposal

- Finalizing the proposal for academic submission.
- Criteria for evaluating research proposals in Pali

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Samrat Ashok

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SWAMI VIVEKANAND SUBHARTI UNIVERSITY

Subhartipuram, NH-58, Delhi Haridwar Meerut Bypass Road, Meerut - 250005

Website: www.subharti.org, E-mail: buddhiststudies@subharti.org, Ph: 0121-3055000



Reference Books:

Primary Reference Books:

1. **Tipitaka (Pali Canon):** The complete collection of the Buddha's teachings, divided into three "baskets" (pitaka):
 - a. **Vinaya Pitaka:** Rules and regulations for monastic discipline.
 - b. **Sutta Pitaka:** Discourses of the Buddha, including the Digha Nikaya, Majjhima Nikaya, Samyutta Nikaya, and Anguttara Nikaya.
 - c. **Abhidhamma Pitaka:** Philosophical and doctrinal analysis of the teachings.
2. **Buddhaghosa, B. (1950). *Visuddhimagga: The Path of Purification*.** Translated by Bhikkhu Nanamoli. Kandy: Buddhist Publication Society.
3. **Dhammapada: *The Sayings of the Buddha*.** Translated by Eknath Easwaran. Tomales, CA: Nilgiri Press.
4. **Sutta Nipata: *An Anthology of Discourses from the Pali Canon*.** Translated by Bhikkhu Bodhi. Boston: Wisdom Publications.

Secondary Reference Books:

1. **Barua, B. M. (1920). *A History of Pāli Literature*.** Calcutta University Press.
2. **आओ पालि सीखे (2014)-** भदन्त आनन्द कौसल्यायन, सम्यक प्रकाशन
3. **Bapat, P. V. (1956). *2500 Years of Buddhism*.** Publications Division, Government of India.
4. **Buddhadatta, A. P. (2001). *Concise Pali-English Dictionary*.** Motilal Banarsidass.
5. **पाली पाठ (2014) -** भदन्त डॉ. चंद्रकिर्ती, लोटस एंड कोब्रा पुब्लिसिंग हाउस
6. **Childers, R. C. (1875). *A Dictionary of the Pali Language*.** Trübner & Co.
7. **पाली व्याकरण (2004) -** भिक्षु धर्मरक्षित, ज्ञान मंडल लिमिटेड वाराणसी
8. **Dhammananda, K. S. (2002). *What Buddhists Believe*.** Buddhist Missionary Society.
9. **Gethin, R. (1998). *The Foundations of Buddhism*.** Oxford University Press.
10. **Geiger, W. (2004). *Pāli Literature and Language* (B. K. Ghosh, Trans.).** Motilal Banarsidass.
11. **Gombrich, R. F. (2009). *What the Buddha Thought*.** Equinox Publishing.
12. **Horner, I. B. (1954). *The Book of the Discipline (Vinaya Piṭaka), Vol. I–VI*.** Pali Text Society.
13. **Jayawickrama, N. A. (1990). *The Story of Gotama Buddha: The Nidānakathā of the Jātakatthavaṇṇanā*.** Pali Text Society.
14. **Malalasekera, G. P. (1997). *Dictionary of Pali Proper Names* (2 vols.).** Motilal Banarsidass.

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Subhartipuram, NH-58, Delhi Haridwar Meerut Bypass Road, Meerut - 250005

Website: www.subharti.org, E-mail: buddhiststudies@subharti.org, Ph: 0121-3055000



15. **Norman, K. R. (1983).** *Pāli Literature: Including the Canonical Literature in Prakrit and Sanskrit of All the Hīnayāna Schools of Buddhism.* Otto Harrassowitz.
16. **Norman, K. R. (1990).** *Collected Papers, Vol. I–VIII.* Pali Text Society.
17. **Rhys Davids, T. W., & Stede, W. (1921–25).** *The Pali Text Society's Pali–English Dictionary.* Pali Text Society.
18. **Rhys Davids, C. A. F. (1903).** *Buddhist Psychology: An Inquiry into the Analysis and Theory of Mind in Pali Literature.* G. Bell & Sons.
19. **Saddhatissa, H. (1997).** *The Buddha's Path: A Practical Guide from the Nikāyas.* George Braziller.
20. **Sasaki, R. (2008).** *A Study of the Abhidhamma Philosophy in Theravāda Buddhism.* Sri Satguru Publications.
21. **Sujato, B., & Brahmali, B. (2015).** *The Authenticity of the Early Buddhist Texts.* SuttaCentral.
22. **Upadhyay, N. J. (1996).** *Pali Language and Literature: A Systematic Survey and Historical Study.* Bharatiya Vidya Prakashan.
23. **Warder, A. K. (2004).** *Introduction to Pali.* Pali Text Society.

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