



**PH.D. COURSE WORK TEACHING & EXAMINATION SCHEME WITH SYLLABUS**

**Course Code:**

**Course name:** RESEARCH PUBLICATION AND ETHICS

**Course Prerequisites:**

SR. NO	SUBJECT	LEVEL OF STUDY
01	Academic and Research report writing	NPTEL Course
02	Basic of Research Methodology	FDP, STTTP,Conference

**TEACHING & EXAMINATION SCHEME:**

Teaching Scheme (Hrs/Week)				Examination Scheme				
Theory	Tutorial	Practical	Credit	Theory		Practical		Total
				CA	ESE	CA	ESE	
2	0	0	2	40	60	0	0	100

**COURSE OBJECTIVE(S):**

The objective of the course is to introduce the basics of philosophy of science and ethics, research integrity, publication ethics. It is intended to help researchers identify research misconduct and predatory publications. This subject shall help researchers understand the use of indexing and citation databases, open access publications, research metrics (citations, h-index, Impact factor, etc.) and plagiarism tools.

The researcher shall also be made aware of moral & ethics in research conduction, drafting, presentation, publication and shall maintain originality and integrity at all levels of research and impact of research with different measuring indices.

**COURSE CONTENT(S):**

Module No.	Content	Hours	Weightage (%)
1	<b>UNIT 1: Philosophy &amp; Ethics</b> Introduction to Philosophy: definition, nature and scope, concept, branches. Ethics: definition, moral philosophy, nature of moral judgements and reactions.	03	10 %



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2	<b>UNIT 2: Scientific Conduct:</b> Ethics with respect to science and research, Intellectual honesty and research integrity, Scientific misconducts: Falsification, Fabrication, and Plagiarism, Redundant Publications: duplicate and overlapping publications, salami slicing, Selective reporting and misrepresentation of data	05	18 %
3	<b>UNIT 3: Publication Ethics:</b> Publication Ethics: definition, introduction and importance, Best practices I 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 contributor ship, Identification of publication misconduct, complaints and appeals, Predatory publishers and journals	7	23 %
4	<b>UNIT 4: Open Access Publishing:</b> Open Access publications and initiatives, SHERPA/RoMEO online resource to check publisher copyright and 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.	4	13 %
5	<b>UNIT 5: Publishing Misconduct:</b> A. Group Discussions (2 hours) <ul style="list-style-type: none"><li>• Subject specific ethical issues, FFP, authorship</li><li>• Conflicts of interest</li><li>• Complaints and appeals: examples and fraud from India and abroad</li></ul> B. Software tools (2 hours) <ul style="list-style-type: none"><li>• Use of plagiarism software like Turnitin, Urkund, and other open source software tools.</li></ul>	4	13 %
6	<b>UNIT 6: Databases and Research Metrics</b> A. Databases (4 hours) <ul style="list-style-type: none"><li>• Indexing databases</li><li>• Citation databases: Web of Science, Scopus, etc.</li></ul> B. Research Metrics (3 hours) <ul style="list-style-type: none"><li>• Impact factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score</li><li>• Metrics: h-index, g index, i10index, altmetrics</li></ul>	7	23 %



**PH.D. COURSE WORK TEACHING & EXAMINATION SCHEME WITH SYLLABUS**

**Reference Book(s):**

Title of the Book	Author(s)	Publication
Research methodology: an introduction for science & engineering students	Stuart Melville and Wayne Goddard	Prentice Hall, New Jersey.
Research Methodology: An Introduction	Wayne Goddard and Stuart Melville	New Age International, New Delhi.
Research Methodology: A Step by Step Guide for beginners	Ranjit Kumar	2 nd Edition, Routledge, Boca Raton.
Resisting Intellectual Property	Halbert	Taylor & Francis Ltd.
Industrial Design	Mayall	McGraw Hill

**Web Material Link(s):**

1. [https://prog.lmu.edu.ng/colleges\\_CMS/document/books/EIE%20510%20LECTURE%20NOTES%20first.pdf](https://prog.lmu.edu.ng/colleges_CMS/document/books/EIE%20510%20LECTURE%20NOTES%20first.pdf)
2. [https://mrcet.com/downloads/digital\\_notes/CSE/Mtech/I%20Year/RESEARCH%20METHODOLOGY.pdf](https://mrcet.com/downloads/digital_notes/CSE/Mtech/I%20Year/RESEARCH%20METHODOLOGY.pdf)
3. [https://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture\\_notes/health\\_science\\_students/ln\\_research\\_method\\_final.pdf](https://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture_notes/health_science_students/ln_research_method_final.pdf)
4. <https://www.drnishikantjha.com/papersCollection/Research%20Methodology%20.pdf>
5. <https://www.studocu.com/row/document/purbanchal-vishwavidyalaya/research-methodology/research-methodology-lecture-notes/17676454>
6. [https://www.researchgate.net/publication/283205140\\_Lecture\\_Notes\\_On\\_Research\\_Methodology](https://www.researchgate.net/publication/283205140_Lecture_Notes_On_Research_Methodology)

**Equivalent/Corresponding Course on NPTEL (SWAYAM):**

1. Academic and Research Report Writing By Dr. Samir Roy | National Institute of Technical Teachers Training and Research , Kolkata

**COURSE OUTCOMES:**

Ph.D. Scholar shall be fully aware about the necessary tools and techniques to be used and importance of originality, integrity and ethics to be followed in research work