



# GUJARAT TECHNOLOGICAL UNIVERSITY

Doctor of Philosophy

Subject Code : PHD2302

Subject Name : Research and Publication Ethics

WEF Academic Year :	2023-2024
Semester :	1
Category of the Course :	Ph. D.

## Course Scheme :

Teaching Scheme			Total Credits	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Practical		
				ESE (E)	PA(M)	ESE (V)	PA (I)	
2	0	0	2	35	15	0	0	50

## Course Objective:

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:

Sr. No.	Course Content	No. of Hours
1	<b>Philosophy &amp; Ethics</b> <ul style="list-style-type: none"><li>Introduction to Philosophy: definition, nature and scope, concept, branches.</li><li>Ethics: definition, moral philosophy, nature of moral judgments and reactions.</li></ul>	3



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<b>2</b>	<p><b>Scientific Conduct</b></p> <ul style="list-style-type: none"> <li>• Ethics with respect to science and research.</li> <li>• Intellectual honesty and research integrity.</li> <li>• Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).</li> <li>• Redundant Publications: duplicate and overlapping publications, salami slicing.</li> <li>• Selective reporting and misrepresentation of data.</li> </ul>	<b>5</b>
<b>3</b>	<p><b>Publication Ethics</b></p> <ul style="list-style-type: none"> <li>• Publication Ethics: definition, introduction and importance.</li> <li>• Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.</li> <li>• Conflicts of interest.</li> <li>• Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types.</li> <li>• Violation of publication ethics, authorship and contributor ship.</li> <li>• Identification of publication misconduct, complaints and appeals.</li> <li>• Predatory publishers and journals.</li> </ul>	<b>7</b>
<b>4</b>	<p><b>Open Access Publishing</b></p> <ul style="list-style-type: none"> <li>• Open Access publications and initiatives.</li> <li>• SHERPA/RoMEO online resource to check publisher copyright and self-archiving policies.</li> <li>• Software tool to identify predatory publications developed by SPPU.</li> <li>• Journal finder/Journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.</li> </ul>	<b>4</b>
<b>5</b>	<p><b>Publishing Misconduct</b></p> <p><b>A. Group Discussions (2 hours)</b></p> <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> <p><b>B. Software tools (2 hours)</b></p> <p>Use of plagiarism software like Turnitin, Urkund, and other open source software tools.</p>	<b>4</b>
<b>6</b>	<p><b>Databases and Research Metrics</b></p> <p><b>A. Databases (4 hours)</b></p> <ul style="list-style-type: none"> <li>• Indexing databases</li> <li>• Citation databases: Web of Science, Scopus, etc.</li> </ul> <p><b>B. Research Metrics (3 hours)</b></p> <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>	<b>7</b>



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## Course Outcome:

After Completion of the Course, Student will able to:

Sr. No.	Course Outcomes
01	Ph.D. Scholar shall be fully aware about the necessary tools & techniques to be used and importance of originality, integrity and ethics to be followed in research.

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