

COURSE DESCRIPTION	
Course Code	Course Credit: 2
Course Name	Research and Publication Ethics
L-T-J-P	2-0-0-2
Pre-requisite	Nil
Year of Introduction	2021

COURSE OBJECTIVES	
1	To focus on the basics of philosophy of science & ethics, research integrity and publication ethics
2	To understand research misconduct and predatory publications
3	To be aware of indexing and citation databases, open access publications, research metrics (Citations, h-index, Impact Factor, etc.).

COURSE OUTCOMES (COs)		REVISED BLOOM'S TAXONOMY LEVEL
At the end of the course students will be able to:		
CO1	Understand the concept of ethics, research integrity & philosophy of research.	2
CO2	Understand the predatory publications and publication misconducts.	2
CO3	Use plagiarism tools and journal finders	2
CO4	Understand the databases and research metrics	2

COURSE IMPLEMENTATION CLOCK (IN HOURS)	
Course introduction with thorough briefing of Course Objectives and expected Course Outcomes	1 Hr.
Course content delivery hours	24 Hrs.
Internal Assessment : Assignments / Tutorial / Quizzes / Group Discussion	4 Hrs.

SYLLABUS

This course has total 6 units focusing on basics of philosophy of science and ethics, research integrity and publication ethics. Hands-on-sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools will be introduced in this course.

COURSE CONTENT

Module-I (Theory)		COs	Hrs.	ESE Marks
Module Title	PHILOSOPHY AND ETHICS			
Introduction to philosophy: definition, nature and scope, concept, branches		1	2	15%
Ethics: definition, moral philosophy, nature of moral judgements and reactions		1	1	
Module-II (Theory)		COs	Hrs.	ESE Marks
Module Title	SCIENTIFIC CONDUCT			
Ethics with respect to science and research		1	1	15%
Intellectual honesty and research integrity		1	1	
Scientific misconducts: falsification, fabrication and plagiarism (FFP)		1	1	
Redundant publications: duplicate and overlapping publications, salami slicing		1	1	



Selective reporting and misrepresentation of data		1	1	
Module-III (Theory)		COs	Hrs.	ESE Marks
Module Title	PUBLICATION ETHICS			
Publication ethics: definition, introduction and importance		1	1	15%
Best practices /standards setting initiatives and guidelines: COPE, WAME, etc.		1	1	
Conflicts of interest		1	1	
Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types		1	1	
Violation of publication ethics, authorship and contributorship		1	1	
Identification of publication misconduct, complaints and appeals		2	1	
Predatory publishers and journals		2	1	
Module-IV (Practice)		COs	Hrs.	
Module Title	OPEN ACCESS PUBLISHING			
Open access publications and initiatives		2	1	15%
SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies		2	1	
Software tool to identify predatory publications developed by SPPU		2	1	
Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal suggestor etc.		2	1	
Module-V (Practice)		COs	Hrs.	ESE Marks
Module Title	PUBLICATION MISCONDUCT			
Group Discussions:				20%
1. Subject specific ethical issues, FFP, authorship		2	2	
2. Conflicts of interest				
3. Complaints and appeals: examples and fraud from India and abroad				
Software tools:				
Use of plagiarism software like Turnitin, Urkund and other open source software tools		3	2	
Module-VI (Practice)		COs	Hrs.	ESE Marks
Module Title	DATABASES AND RESEARCH METRICS			
Databases:				20%
1. Indexing databases		4	4	
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		4	3	
2. Metrics: h-index, g index, i10 index, altmetrics				
TEXT BOOKS				
1	Bird, A. (2006). <i>Philosophy of Science</i> . Routledge.			
2	MacIntyre, Alasdair (1967) <i>A Short History of Ethics</i> . London.			
3	P. Chaddah, (2018) <i>Ethics in Competitive Research: Do not get scooped; do not get plagiarized</i> , ISBN:978- 9387480865			
REFERENCE BOOKS				
1	National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). <i>On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition</i> . National Academies Press.			
2	Resnik, D. B. (2011). <i>What is ethics in research & why is it important</i> . National Institute of Environmental Health Sciences, 1-10.			



3	Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179.
4	Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN :978-81-939482-1-7

MODES OF EVALUATION	SCORE WEIGHTAGE / SPLIT MARKS
Continuous Internal Evaluation (CIE)	Weightage will be given for active participation
Assignments / Tutorial / Quizzes / Group Discussion	40
End Semester Examination (ESE)	60
Total	100

End Semester Examination Pattern

Total marks: 60. Duration is for 3 Hours.

Question paper is having 3 parts – namely Part A, Part B and Part C

Part A carries question from Modules 1 and 2, each question carries 9 marks

Part B carries question from Modules 3 and 4, each question carries 9 marks

Part C carries question from Modules 5 and 6, each question carries 12 marks

Each part will have 3 questions. The students have to answer two questions from each part.



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