Research Publication Ethics: Course Work

School: RDC		**Batch :**	
Program: PhD		**Current Academic Year: 2021**	
Branch: RPE		**Semester:01**	
1	**Course Code**	**PhD601**	
2	**Course Title**	**Research and Publication Ethics**	
3	**Credits**	**2**	
4	Contact Hours (L-T-P)	2-0-0	
	Course Status	Compulsory	
5	Course Objective	1.To introduce the basics philosophy and ethics of research 2.To explain about the scientific conduct 3.To create the awareness about publication ethics, plagiarism tools and software 4.To explain to the student the various open access publications and software tool to identify predatory publications 5.To provide information of indexing and research metrics 6.To give an overall idea to make research publishable.	
6	Course Outcomes	CO1: Understand the basics philosophy and ethics of research CO2: Learn about the scientific conduct CO3:Know about publication ethics, plagiarism tools and software CO4: Aware about various open access publications and software tool to identify predatory publications CO5: Gain insight about indexing and research matrics CO6: Formulate the quality research work	
7	Course Description	The course includes the basic concept of research and publication ethics.	
8	Outline syllabus		CO Mapping
	Unit 1	**PHILOSOPHY AND ETHICS**	
	A	Introduction to philosophy: definition, nature and scope, concept, branches	CO1,CO6
	B	Ethics: definition, moral philosophy, nature of moral judgements and reactions	CO1,CO6
	C	The concept of knowledge, Scientific argumentation, Induction and deduction, Realism, relativism, instrumentalism, Paradigm, Positivism and falsification, Causality and correlation	CO1,CO6
	Unit 2	**SCIENTIFIC CONDUCT**	
	A	Ethics with respect to science and research, Intellectual honesty and research integrity,	CO2,CO6
	B	Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP), Redundant publications: duplicate	CO2,CO6

		and overlapping publications, salami slicing, Selective reporting and misrepresentation of data,			
	C	Subject specific ethical issues, FFP, authorship, Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad			CO2,CO6
	Unit 3	**PUBLICATION ETHICS**			
	A	Publication ethics: definition, introduction and importance, Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.			CO3,CO6
	B	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			CO3,CO6
	C	Predatory publishers and journals, Software tools, Use of plagiarism software like Turnitin, Urkund and other open source software tools			CO3,CO6
	Unit 4	**OPEN ACCESS PUBLISHING**			
	A	Open access publications and initiatives			CO4,CO6
	B	SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies			CO4,CO6
	C	Software tool to identify predatory publications developed by SPPU, Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.			CO4,CO6
	Unit 5	**DATABASES AND RESEARCH METRICS**			
	A	Databases -Indexing databases, Citation databases: Web of Science, Scopus, etc			CO5,CO6
	B	Research Metrics - Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score			CO5,CO6
	C	Metrics: h-index, g index, i10 index, altmetrics			CO5,CO6
	Mode of examination	Theory/Jury/Practical/Viva			
	Weightage Distribution	CA	MTE	ETE	
		25%		75%	
	Text book/s*	1. Bird, A. (2006). Philosophy ofScience. Routledge. 2. MacIntyre, Alasdair (1967) A Short History ofEthics. London.			

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	Other References	1. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:9789387480865 2. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press. 3. Resnik, D. B. (2011). What is ethics in research & why is it important. National Institute ofEnvironmental Health Sciences, 1—10. Retrieved from https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfin 4. Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179—179. https://doi.org/10.1038/489179aI 5 ndian National Science Academy (INSA), Ethics in Science Education, Research and Governance(2019), ISBN:978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf	