

Code: ED3101 . Course name : Research & Publication Ethics (RPE)**Programme:Ph.D.****Year:2020-21****Semester: II****Course: RPE****Credits: 02****Hours: 30**

Course Context and Overview (100 words): The aim of this course is to make aware the research scholars about research and publication ethics. The course discusses various issues related to research and publication guidelines such as ethics, scientific conduct, research integrity, publication misconduct, open access publication, indexing databases, etc. Thus it provides the students the training and guidelines for the conduct of their research work and to publish the work in standard journals.

Prerequisites Courses: NIL**Course outcomes (COs):**

On completion of this course, the students will have the ability to:
CO1 to understand the philosophy of science and ethics
CO2 identify research misconduct and predatory publications
CO3 to understand indexing and citation data bases,open accesspublications, research matrices and to use of the plagiarism software tools
CO4 learn the logic of designing a sound research proposal ,conduct their experiments following ethical norms.
CO5comprehend, at the end of the course, about publications ethics, publication misconduct and hence true value of research, and to publish their work in good impact factor journals

Course Topics:

Topics	Lecture	Hours
Unit 1:Philosophy& Ethics		3
1.1 Introduction to philosophy: definition, nature and scope, concept, branches	2	
1.2Ethics: research Process, moral philosophy, nature of moral judgements and reactions	1	

Unit 2: Scientific Conduct		5
2.1 Ethics with respect to science and research	1	
2.2 Intellectual honesty and research integrity	1	

2.3 Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)	1	
2.4 Redundant publications: duplicate and overlapping publications, salami slicing	1	
2.5 misrepresentation of data	1	

3.Publication Ethics		7
3.1Publication ethics: importance, Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.	2	
3.2 Conflicts of interest	1	
3.3Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types	1	
3.4 Violation of publication ethics, authorship and contributor ship	1	
3.5 Identification of publication misconduct, complaints and appeals	1	
3.6 Predatory publishers and journals	1	

Unit 04:Open access publishing		4
4.1 Open access publications and initiatives	1	
4.2 SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies	1	

4.3 Software tool to identify predatory publications developed by SPPU.	1	
4.4 Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer etc	1	

Unit 5:Databases & Research Matrices		7
5.1Indexing database	2	
5.2 Citation databases: Web of Science, Scopus, etc	2	
5.3 Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score	2	
5.4Metrics: h-index, g index, i-10 index	1	

Unit 6:Publication Misconduct		4
6.1 Software tools : Use of plagiarism software like Turnitin, Urkund and other open source software tools.	2	
Case Studies	2	

Reference Books: 1. Research Methods for Engineers by David V.Theil.Cambridge University press,2014.

2.Research Methodology-an Introduction by Wayne Goddard & Stuart Melville,JUTA & Co. ,2014

3.Research Methodology and Scientific Writing by C.G.Thomas.Ane Books Pvt.Ltd.2016

4. Research Methods & Statistics by Bernard A.mc Carthy,Pearson,2012

5.Research Methodology by Sameer Phance,Oxford University Press,,2016

Evaluation Method:

Item	Weightage (%)
Quiz 1	5
Quiz 2	5
Assignments/Case Studies	10
Midterm	30
Final Examination	50

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