

# Institute of Engineering and Technology DAVV indore

## Research Ethics and Publication

Modules	Unit Title	Teaching Hours
<b>Theory</b>		
RPE 01	Philosophy and Ethics	4
RPE 02	Scientific Conduct	4
RPE 03	Publication Ethics	7
<b>Practice</b>		
RPE 04	Open Access Publishing	4
RPE 05	Publication Misconduct	4
RPE 06	Databases and Research Metrics	
	<b>Total</b>	<b>30</b>

### RPE 01: PHILOSOPHY AND ETHICS(3 hrs.)

1. Introduction to philosophy: definition, nature and scope ,concept, branches.
2. Ethics: definition, moral philosophy, nature of moral judgment and reaction.

### RPE 02: Scientific Conduct (5 hrs.)

1. Ethical with respect to science and research .
2. Intellectual honest and research integrity.
3. Scientific misconduct: Falsification, Fabrication, and Plagiarism(FFP)
4. Redundant publication: duplicate and overlapping publication, salami slicing
5. Selective reporting and misrepresentation of data.

### RPE 03: Publication Ethics(7 hrs.)

- 1 Publication ethics: definition, introduction and importance
- 2 Best practices/slandered setting initiative and guidelines: COPE, WAME, etc.
3. Conflict of interest
4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa , types.
5. Violation of publication ethics, authorship and contributor ship.
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals.

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21-1-22

## PRACTICE

### RPE 04: OPEN ACCESS PUBLISHING (4 hrs.)

1. Open access publication and initiatives
2. SHERPA/RoMEO online resource to check publishers copyright & self-archiving policies
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder /Journal suggestion tools viz JANE, Elsevier Journal finder, Springer Journal Suggestion, etc

### RPE 05: PUBLICATION MISCONDUCT (4 hrs.)

#### A. Group Discussion (2 hrs.)

1. Subject specific ethical issue, FFP, authorship
2. Conflict of interest
3. Complaints and appeals: Example and fraud from India and abroad

#### B. Software Tool (2 hrs)

Use of plagiarism software like Turnitin, Urkund and other open source software tools.

### RPE 06: DATABASE AND RESEARCH METRICS (7 hrs.)

#### A. DATABASE (4 hrs)

1. Indexing database
2. Citation database: Web of science, Scopus, etc.

#### B. Research Matrices (3 hrs.)

1. Impact factor of journal as per journal citation Reports, SNIP, SJR, IPP, Cite score.
2. Metrics: h-index, g index, altmetrics.

## REFERENCES

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MacIntyre, Alasdair (1967) A Short History of ethics. LONDON  
P. Chaddah (2018) Ethics in Competitive research: Do not get scooped: do not get plagiarized. ISBN: 978-938740865  
National academy of science 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.  
Rensik D.B (2011) What is ethics in research & why is it important: National institute of environmental health  
science, 1-10.  
Indian national Science Academy (INSA), Ethics in science Education. Research and governance (2019), ISBN: 978-  
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