

### Research and Publication Ethics (LS 612A) [ 2 Credits]

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| Modules         | Unit title                     | Teaching hours | Topic   | Faculty                |
|-----------------|--------------------------------|----------------|---|------------------------|
| <b>THEORY</b>   |                                |                |   |                        |
| RPE 01          | Philosophy and Ethics          | 3              | Introduction of philosophy: Definition, Nature and scope, concept, branches   | ASK (2)                |
|                 |                                |                | Ethics: Definition, moral philosophy, nature of moral judgments and reactions   | KN                     |
| RPE 02          | Scientific Conduct             | 5              | Ethics with respect to science and research   | KN                     |
|                 |                                |                | Intellectual honesty and research integrity   | SKJ                    |
|                 |                                |                | Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)  | KN                     |
|                 |                                |                | Redundant publications: Duplicate and overlapping publications, Salami Slicing  | SGN                    |
|                 |                                |                | Selective reporting and misrepresentation of data   | SGN                    |
| RPE 03          | Publication Ethics             | 7              | Publication ethics: Definition, introduction and importance   | AKN                    |
|                 |                                |                | Best practices/standards setting initiatives and guidelines: COPE, WAME, etc.   | AKN                    |
|                 |                                |                | Conflicts of interest   | AKN                    |
|                 |                                |                | Publication misconduct: Definition, concept, problems that lead to unethical behavior and vice-versa, types   | AKN                    |
|                 |                                |                | Violation of publication ethics, authorship and contributorship   | AKN                    |
|                 |                                |                | Identification of publication misconduct, complaints and appeals  | ASK                    |
|                 |                                |                | Predatory publishers and journals   | ASK                    |
| <b>Practice</b> |                                |                |   |                        |
| RPE 04          | Open Access Publishing         | 4              | 1. Open access publications and initiatives<br>2. SHERPA/RoMEO online resource to check publisher copyright & self-achieving policies<br>3. Software tool to identify predatory publications developed by SPPU<br>4. Journal finder/journal suggestion tool viz., ZAME, Elsevier journal Finder, Springer journal suggester, etc. | ASK, KN, SKJ, SGN, AKN |
| RPE 05          | Publication Misconduct         | 4              | <b>Group Discussion (2 hrs)</b><br>1. Subject specific ethical issues, FFP, authorship<br>2. Conflicts of interest<br>3. Complaints and appeals: Examples and fraud from India and abroad   | ASK, KN, SKJ, SGN, AKN |
|                 |                                |                | <b>Software tools (2 hrs)</b><br>Use of plagiarism software like Turnitin, Urkund and other open-source software tools  | ASK, KN, SKJ, SGN, AKN |
| RPE 06          | Databases and Research Metrics | 7              | <b>Databases (4 hrs)</b><br>1. Indexing databases<br>2. Citation databases: Web of science, Scopus, etc.  | ASK, KN, SKJ, SGN, AKN |

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|  |  |  | <b>Research Metrics (3 hrs)</b><br>1. Impact Factor of journal as per journal Citation report, SNIP, SJR, IPP, Cite Score<br>2. Metrics: h-index, g index, i10 index, altmetrics | ASK, KN,<br>SKJ, SGN,<br>AKN |
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**Total contact hours: = 30**

**References**

Bird, A. (2006). *Philosophy of Science*, Routledge.

MacIntyre, Alasdair (1967) *A Short history of Ethics*. Lonon

P. Chaddah, (2018) *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978-9387480865

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 Academics Press.

Resnik, DB (2011) *What is ethics in research & why is it important*. National Institute of Environmental Health Sciences, 1-10, retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

Beall, J. (2012). *Predatory publishers are corrupting open access*. *Nature*, 489(7415), 179-199. doi: 10.1038/489179a.

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019), ISBN:978-81-939482-1-7. [http://www.insaindia.res.in/pdf/Ethocs\\_Book.pdf](http://www.insaindia.res.in/pdf/Ethocs_Book.pdf)