

Jawaharlal Nehru Technological University Anantapur
Ph.D Course Work
(21PH00401) Research and Publication Ethics
(Common to all)

Unit I: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition, nature and scope, concept, branches - Ethics: definition, moral philosophy, nature of moral judgements and reactions.

Unit II: SCIENTIFIC CONDUCT

Ethics with respect to science and research - Intellectual honesty and research integrity - Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP) - Redundant Publications: duplicate and overlapping publications, salami slicing - Selective reporting and misrepresentation of data.

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

Unit III: PUBLICATION ETHICS

Publication ethics: definition, introduction and importance - Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. - Conflicts of interest - Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types - Violation of publication ethics, authorship and contributor ship - Identification of publication misconduct, complaints and appeals - Predatory publisher and journals.

Unit IV: OPEN ACCESS PUBLISHING

Open access publications and initiatives - SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies - Software tool to identify predatory publications developed by SPPU - Journal finger / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer, Journal Suggester, etc.

Unit V: DATABASES AND RESEARCH METRICS

Databases: Indexing databases, Citation databases: Web of Science, Scopus, etc.

Research Metrics: Impact Factor of journal as per Journal Citations Report, SNIP, SJR, IPP, Cite Score - Metrics: h-index, g index, i10 Index, altmetrics.

References

1. Academic Integrity and Research Quality by University Grants Commission, New Delhi. Available at https://www.ugc.ac.in/e-book/Academic%20and%20Research%20Book_WEB.pdf
2. Nicholas H. Steneck. Introduction to the Responsible Conduct of Research. Office of Research Integrity. 2007. Available at: <https://ori.hhs.gov/sites/default/files/rcrintro.pdf>
3. The Student's Guide to Research Ethics by Paul Oliver Open University Press, 2003

4. Responsible Conduct of Research by Adil E. Shamoo; David B. Resnik Oxford University Press, 2003
5. Ethics in Science Education, Research and Governance Edited by Kambadur Muralidhar, Amit Ghosh Ashok Kumar Singhvi. Indian National Science Academy, 2019. ISBN: 978-81-939482-1-7.
6. Anderson B.H., Dursaton, and Poole M.: Thesis and assignment writing, Wiley Eastern 1997.
7. Bjorn Gustavii: How to write and illustrate scientific papers? Cambridge University Press.
8. Bordens K.S. and Abbott, B.b.: Research Design and Methods, Mc Graw Hill, 2008.
9. Graziano, A., M., and Raulin, M., L.: Research Methods – A Process of Inquiry, Sixth Edition, Pearson, 2007.