

Research and Publication Ethics (RPE)

Objectives:

2 Credit course

- To understand the philosophy of science and ethics, research integrity and publication ethics.
- To identify research misconduct and predatory publications.
- To understand indexing and citation databases, open access publications, research metrics (citations, h-index, impact Factor, etc.).
- To understand the usage of plagiarism tools.
- At the end of the course the student will have awareness about the publication ethics and publication misconducts

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.

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 behaviour 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 VI: DATABASES AND RESEARCH METRICS

Databases (4 Hrs): Indexing databases, Citation databases: Web of Science, Scopus, etc. Research Metrics (3 Hrs.): Impact Factor of journal as per Journal Citations Report, SNIP, SJR, IPP, Cite Score - Metrics: h-index, g index, i10 Index, altmetrics.

References Books:

1. Bird, A. (2006), Philosophy of Science, Routledge.
2. American Educational Research Association (2011). Code of Ethics of AERA, Washington DC. AERA.
3. British Educational Research Association (2018). Ethical guidelines for educational research, London BERA.
4. Punch, Keith F (2013). Introduction to Social Research: Quantitative and Qualitative Approaches: SAGE Publications Ltd.
5. Strike, K.A (2006). The ethics of educational research in handbook of complementary methods in education research. <http://www.rouledgehandsodes.com/doi/10.4324/978020387469>. ch.3.
6. Jones, Julie Scott (2011). Research Ethics in Practice (Fundamentals of Applied Research): SAGE Publications Ltd

COURSE WORK FOR Ph.D.

K. SANKARESWARI

Reg: No: **MKU22PFOS10364**

Assistant Professor of Computer Science

The American College, Madurai

Course-IV

No. of Credits: 2

Title: RESEARCH AND PUBLICATION ETHICS (RPE)

COURSE OBJECTIVES:

- To understand the philosophy of science and ethics, research integrity and publication ethics.
- To identify research misconduct and predatory publications.
- To understand indexing and citation databases, open access publications, research metrics (citations, h-index, impact Factor, etc.).
- To understand the usage of plagiarism tools.
- At the end of the course the student will have awareness about the publication ethics and publication misconducts

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.

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 behaviour 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 VI: DATABASES AND RESEARCH METRICS

Databases (4 Hrs): Indexing databases, Citation databases: Web of Science, Scopus, etc. Research Metrics (3 Hrs.): Impact Factor of journal as per Journal Citations Report, SNIP, SJR, IPP, Cite Score - Metrics: h-index, gindex, i10 Index, altmetrics.

References Books:

1. BirdA, (2006), Philosophy of Science, Routledge.
2. American Educational Research Association (2011). Code of Ethics of AERA, Washington DC. AERA.
3. British Educational Research Association (2018). Ethical guidelines for educational research, London BERA.
4. Punch, Keith F (2013). Introduction to Social Research: Quantitative and Qualitative Approaches: SAGE Publications Ltd.
5. Strike, K.A (2006). The ethics of educational research in handbook of complementary methods in education research.
<http://www.rouledgehandsodes.com/doi/10.4324/978020387469>. ch.3.
6. Jones, Julie Scott (2011). Research Ethics in Practice (Fundamentals of Applied Research): SAGE Publications Ltd

Principles of report writing and guidelines according to style manuals, Writing and presentation of preliminary, main body and reference section of report, Picture and Graphs, Introduction to SPSS, Evaluation of research report.

Text Book:

1. Kothari C.R., "Research Methodology, Methods and Techniques, Second edition, (2008), New Age International Publication.
2. Festinger.L&D. Katz: Research Methods in Behavioral Science.
3. Sellitz, Et Al: Research Methods in Social Relations.

Recommended Books:

1. Krishna Swamy K.N., Siva Kumar A.I., Mathirajan M., "Management Research Methodology (2006), Pearson Education, New Delhi.
2. Kothari C.R., "Research Methodology, Methods and Techniques, Second edition, (2008), New Age International Publication.
3. Ranjit Kumar: Research Methodology, A step by step guide for beginners, Pearson Education, Sixth Edition 2009.
4. Mark Saunders, Philip Lewis, Adrain Thornhiu: Research Methods for Business Students, Pearson Education.
5. Ram Ahuja, "Research Methods", (2001), Rawat Publications, New Delhi.
6. Cooper D., Schindler P., Business research methods", (2003) Tata Mc-Graw Hill, New Delhi.
7. Wilkinson & Bhandarkar: Methodology and Techniques of Social Research.
8. Pauline V young: Scientific Social Surveys and Research.
9. Panneerselvam, R., Research Methodology, Prentice Hall of India, New Delhi, 2004.

