Course structure

The course comprises of six modules listed in table below. Each module has 4-5 units.

Modules	Unit title	Teaching hours
Theory		
RPE 01	Philosophy and Ethics	4
RPE 02	Scientific Conduct	4
RPE 03	Publication Ethics	7
Practice	Marine Street	
RPE 04	Open Access Publishing	4
RPE 05	Publication Misconduct	4
RPE 06	Databases and Research Metrics	7
	Total	30

Syllabus in detail

THEORY

- 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 judgements and reactions
- RPE 02: SCIENTIFICCONDUCT (5hrs.)
 - 1. Ethics with respect to science and research
 - 2. Intellectual honesty and research integrity
 - 3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
 - 4. Redundant publications: duplicate and overlapping publications, 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 / standards setting initiatives and guidelines: COPE, WAME, etc.

 - 4. Publication misconduct: definition, concept, problems that lead to unethical behavior
 - 5. Violation of publication ethics, authorship and contributorship
 - 6. Identification of publication misconduct, complaints and appeals
 - 7. Predatory publishers and journals

PRACTICE

RPE 04: OPEN ACCESS PUBLISHING(4 hrs.)

1. Open access publications and initiatives

2. SHERPA/RoMEO online resource to check publisher 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 Suggester, etc.

RPE 05: PUBLICATION MISCONDUCT (4hrs.)

A. Group Discussions (2 hrs.)

- 1. Subject specific ethical issues, FFP, authorship
- 2. Conflicts of interest
- 3. Complaints and appeals: examples and fraud from India and abroad

B. Software tools (2 hrs.)

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

RPE 06: DATABASES AND RESEARCH METRICS (7hrs.)

A. Databases (4 hrs.)

- 1. Indexing databases
- 2. Citation databases: Web of Science, Scopus, etc.

B. Research Metrics (3 hrs.)

- 1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite
- 2. Metrics: h-index, g index, i10 index, altmetrics

References

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

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 Academies Press.

Resnik, D. B. (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), 179-179.

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MANGALORE UNIVERSITY

DEPARTMENT OF INDUSTRIAL CHEMISTRY, MANGALAGANGOTRI-574 199

Ph.D. Course Work – 2 Title: Research and Publication Ethics

ANNEXURE

Course Title:

 Research and Publication Ethics (RPE)-Course for awareness about the publication ethics and publication misconducts.

Course Level:

• 2 Credit course (30 hrs.)

Eligibility:

 M.Phil., Ph.D. students and interested faculty members (It will be made available to post graduate students at later date)

Fees:

· As per University Rules

Faculty:

· Interdisciplinary Studies

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Qualifications of faculty members of the course:

· Ph.D. in relevant subject areas having more than 10 years' of teaching experience

About the course

Course Code: CPE- RPE

Overview

 This course has total 6 units focusing on basics of philosophy of science and ethics, research integrity, publication ethics. Hands-on-sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools will be introduced in this course.

Pedagogy:

Class room teaching, guest lectures, group discussions, and practical sessions.

Evaluation

 Continuous assessment will be done through tutorials, assignments, quizzes, and group discussions. Weightage will be given for active participation. Final written examination will be conducted at the end of the course.