

NOTIFICATION

Sub: Revised syllabus for Ph.D. Coursework in Applied Botany
Ref: Academic Council approval vide agenda
No.: ಎಸಿ.ಶ್ಯ.ಸಾ.ಸ.2: 18(2021-22) dated 27.10.2021

The revised syllabus for Ph.D. Coursework in Applied Botany which has been approved by the Academic Council at its meeting held on 27.10.2021 is hereby notified for implementation with effect from the academic year 2021-22.



REGISTRAR

To,

1. The Chairman, Dept. of Applied Botany, Mangalore University, Mangalagangothri
2. The Chairman, PG BOS in Applied Botany, Dept. of Botany, Mangalore University.
3. The Registrar (Evaluation), Mangalore University.
4. The Superintendent (ACC), O/o the Registrar, Mangalore University.
5. The Asst. Registrar (ACC), O/o the Registrar, Mangalore University.
6. Guard File.

30/11/21

Ph.D. Course Work in Applied Botany
Course 2: Research and Publication Ethics (RPE)

THEORY

UNIT I: (3 Hours)

PHILOSOPHY AND ETHICS

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

UNIT II: (5 Hours)

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: (7 Hours)

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 contributorship
- Identification of publication misconduct, complaints and appeals
- Predatory publishers and journals

PRACTICE

UNIT IV: (4 Hours)

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 finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.

UNIT V: (4 Hours)

PUBLICATION MISCONDUCT

A. Group Discussions (2 hrs.)

- Subject specific ethical issues, FFP, authorship
- Conflicts of interest
- 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

UNIT VI: (7 Hours)

DATABASES AND RESEARCH METRICS

A. Databases (4 hrs.)

- Indexing databases
- 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, CiteScore
2. Metrics: h-index; g index, i10 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- 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 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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