

Anekant Education Society's
TULJARAM CHATURCHAND COLLEGE
OF ARTS, SCIENCE & COMMERCE, BARAMATI, DIST – PUNE.
AUTONOMOUS



POST GRADUATE DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE SYLLABUS

**M.Sc. Zoology Part-I,
SEMESTER-I**

ACADEMIC YEAR: 2022-2023

SYLLABUS (CBCS) FOR M.Sc. ZOOLOGY (w. e. f. June, 2022)

Class: M.Sc. I

Semester: I

Certificate Course: Research and Publication Ethics

Credit: 2

No. of Hours: 30

THEORY- TOPICS / CONTENTS:

12L

Unit no.	Name of Topic	Lectures
1	Scientific Conduct	3
	1.1 Ethics with respect to science and research 1.2 Scientific misconducts: falsification and plagiarism. 1.3 Redundant publications: duplicate and overlapping publications, salami slicing. 1.4 Selective reporting and misrepresentation of data.	
2	Ethical Approval and Guidelines	5
	2.1 Types of studies. 2.2 Clinical Trials. 2.3 Ethical Committee and need of its approval for research involving: <ul style="list-style-type: none"> a) Human participants, their data or biological material. b) Human embryos, gametes, and stem cells. c) Animals and their data or biological material. d) Utilization of plants, algae, fungi. 2.4 Consent: Types and need. 2.5 Guidelines: Need and Examples of different guidelines.	
3	Publication Ethics	4
	3.1 Publication ethics: definition, introduction and importance 3.2 Conflicts of interest. 3.3 Publication misconduct: Definition, concept, problems that lead to unethical behaviour. 3.4 Violation of publication ethics, authorship and contributorship. 3.5 Identification of publication misconduct, complaints and appeals. 3.6 Predatory publishers and journals.	

Practicals based on “Research and Publication Ethics” (Any 6) 18L

Sr. No.	Name of the practical
1.	Complaints and appeals: examples and fraud from India and abroad
2.	Use of reference management software “Mendeley” and anti-plagiarism software “Urkund”.
3.	Subject specific ethical issues, plagiarism, authorship and conflicts of interest
4.	Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.
5.	To study the different databases: Web of Science, Scopus and COPE, etc.
6.	Software tool to identify predatory publications developed by SPPU and UGC-CARE list of journals.
7.	To study the research metrics: Impact factor, h-index.
8.	Student activity on “Group discussions on publication misconduct”

REFERENCES:

1. Kothari, C.R. (2004). Research methodology: Methods and techniques (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.
2. Committee on Publication Ethics (COPE). How to handle authorship disputes: a guide for new researchers. 2003.