

**SYLLABUS (CBCS) FOR M.Sc. I. Microbiology**  
(w. e. from June, 2022)

Academic Year 2022-2023

Class: M. Sc. I (Semester- II)

Paper Code:

Paper:

Title of Paper: **Certificate Course in Research Methodology**

Credit: 2

No. of lectures: 30

**Learning Objectives:**

- To introduce the concepts of application and research in Microbiology
- To inculcate sense of scientific responsibilities

**Learning Outcome:**

- Students will able to Understand philosophy and ethics of research
- Students should be able to write research proposal.

**UNIT 1: Introduction to Research (15L)**

- Philosophical foundation of research
- Understanding research publications
- Online Referencing Tools
- Plagiarism
- Statistical Software (R software)

**UNIT 2: Scientific writing (15L)**

- Construction of title and Preparation of abstract for a research paper/ proposed project
- Writing of materials and methods, results, discussion, conclusion etc
- Writing of research proposals
- Writing a project report

