

DEPARTMENT OF MICROBIOLOGY

Mrs. K. S. K. College, Beed.

Academic Year: 2026-2027

M.Sc. (NEP)

Programme Educational Objectives (PEOs):

On completion of program students will be able to

1. Acquire ability to apply the process of science by formulating hypotheses and design based on the scientific method.
2. Analyse and interpret results from a variety of microbiological experiments
3. Use quantitative reasoning by using mathematical calculations to solve problems in microbiology.
4. Communicate and collaborate with other disciplines effectively
5. Identify credible scientific sources to interpret and evaluate the evidences
6. Understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issues in microbiology.
7. Exhibit ability to pursue careers in the industry and applied research where microbial systems are increasingly employed.

Program specific outcomes (PSO)

On completion of program students will be specifically able to

1. Prepare and view specimens for examination using light microscopy
2. Apply techniques to isolate, identify and maintain microorganisms.
3. Enumerate microorganisms from various samples
4. Independently handle microbiological equipment and methods.

5. Exercise Safe microbiology practices.

6. Plan, design, execute experiments and interpret, document and present findings.