

Department of Microbiology

B.Sc. Microbiology

Students will be able to

- ♣ Demonstrate a rational understanding of the diversity of microorgansisms, structure, functions, their role in the biosphere, bioinformatics and biostatistics.
- → Identify the microorganisms, classify them based on their morphological characteristics and the relationship between them and the environment.
- ♣ Explain the fundamental concepts, processes, core theories and practices within microbiology, immunology and clinical microbiology.
- ♣ Apply the tools, technologies and scientific methods for laboratory and conventional investigations safely and formulate valid conclusions based on the results in the field of microbiology and its associated areas.
- ♣ Describe the role of microbes in human, food and diary technology, agriculture, the process of heritable information in microorganisms and forming new genetic combinations through recombinant DNA
- ♣ Recognize bio safety measures, intellectual property rights and explore career options in the field of microbiology.



M.Sc. Microbiology

Students will be able to

- ♣ Describe the cell structure, functions, their characteristics, cultivation methods, concept of culture, type of culture and microbial techniques.
- ♣ Construct the use of microbial knowledge in genetics, genetic engineering, fermentation technology, medical microbiology and waste management.
- ♣ Devise and execute safe laboratory experiments following the research ethics and presentation of reports.
- Locate career options in and related field of microbiology either through competitive examinations or entrepreneurial activities.

M.Phil Microbiology

Students will be able to

- ♣ Recognize and critically use the theoretical understanding of the subject in questioning and plausible explanations.
- → Design and implement effective strategies in carrying out a research in microbiology, possible solutions for the benefits of the biosphere.
- ♣ Transcribe research reports for the advancement in career and journal publications.
- ♣ Utilize the knowledge of teaching learning skills into one's own professional life.
- ♣ Locate the use and implementation of modern technologies in research.