

Department of Microbiology

Programme outcome

B.Sc. Microbiology

After awarding Bachelor degree B. Sc. With Microbiology students will be able to:

PO1- Understand the contribution of various scientists and scope of various branches of microbiology

PO2- Understand methods and techniques of studying microorganisms.

PO3- Understand structure and properties of macromolecules..

PO4- Explain and describe microbial metabolism and growth physiology.

PO5- Understand basic concept of molecular biology and genetic engineering.

PO6- Understand mutation and gene regulation

PO7- Understand the role of microbes in different fields such as Environmental, Industrial, Medical and Agricultural microbiology.

Programme Specific outcomes

B.Sc. Microbiology

BSc - III

PSO1- To understand airborne and water borne diseases

PSO2- To understand Basic concept of immunity

PSO3- To gain basic knowledge of environmental, Industrial and agricultural microbiology

BSc – II

PSO1- To understand fundamentals of Molecular Biology

PSO2- To understand Protein synthesis, mutation and gene regulation

PSO3- To understand fundamentals of bioinstrumentation and Biostatistics

BSc – I

PSO1- To understand fundamental, history and development of microbiology

PSO2- To understand basic microbial techniques

PSO3- To get knowledge of Biochemistry and Physiology

Course outcome

B.Sc. Microbiology

B. Sc. I (A)

General microbiology and Basic technique

CO1- To learn general microbiology and basic techniques

CO2- To know contributions of pioneers

CO3- To understand principle and classification of microorganisms.

B. Sc. I (B)

Biochemistry and Physiology

CO1- To understand biochemistry and physiology of microorganisms

CO2- To know structure classification and properties of macromolecules

CO3- To learn microbial metabolism and transport system

B. Sc. II (A)

Molecular biology and genetic engineering

CO1- To learn fundamentals of Molecular Biology

CO2- To know DNA replication transcription and translation.

CO3- To understand fundamentals of genetic engineering

B. Sc. II (B)

Bio instrumentation and Bio statistics

CO1- To learn microscopy, centrifugation, PH metry and chromatography

CO2- To know basic principles of spectrophotometry, colorimetry and turbidimetry

CO3- To understand electrophoresis x- ray diffraction and biostatistics

B. Sc. III (A)

Medical microbiology and immunology

CO 1- To understand and learn about causes of various diseases such as tuberculosis, Influenza, mumps, cholera, typhoid etc.

CO2- To know symptoms, treatment and prevention of bacterial viral and fungal diseases

CO3- To understand Basic concept of immunity and immune disease diagnosis

B. Sc. III (B)

Environmental, Industrial and agricultural

CO1- To know basics of aerobiology.

CO2- To know Basic concept of water microbiology, soil microbiology and industrial microbiology

CO3- to understand bio fertilizers and biological nitrogen