BIOTECHNOLOGY (3-0-0)

Module - I

Introduction and application of microbiology, Structure and functioning of bacterial cell, Classification and Identification criteria for bacteria. Nutritional requirements and nutritional types of bacteria.

Module - II

Isolation of micro organisms, pure culture techniques and cultural characteristics. Bacterial growth, measurements and reproduction.

Module - III

Fundamentals of microbiology ecology and ecosystems, microbial associations and interactions.

Module - IV

Types of bacteria in water, sanitary examination of water, water purification, average disposal and sewage purification.

Recommended Books:

- 1. Reid, P., Microbiology, TMH.
- 2. Atlas, R. M. & Bartha, R., Microbiology Ecology Fundamentals and Applications.