## **BTP 408 MICROBIOLOGY**

## **Course outcomes:**

After successful completion of the course, students will be able to: CO 1. Have hands-on training and practical skills in microbiologyCO 2. Use safety equipment in microbiology

- CO 3. Develop skills in isolation and culture of microorganisms from different sources
- CO 4. Carry out staining and identification of microorganisms Microscopic observations of microorganisms Microbial staining techniques (simple and differential staining, cell wall, endospores,intracellular lipids, acid-fast, flagella, viability)

Microbial motility testsSterilization techniques

Microbial culture media and their preparationIsolation techniques

Maintenance of microorganisms (stock culture and subculture) Microbial characterization based on biochemical tests

Quantitative and quantitative assessment of microflora in soil, water, air and foodMilk microbiology

Studies on bacteria, fungi and actinomycetes Studies on symbiotic association of microorganisms