

## BSP458 APPLIED MICROBIOLOGY LAB

### Course Outcomes:

*After successful completion of the course, students will be able to :*

- CO 1. Carry out quantitative and qualitative assessments of microflora of soil, water and air.
- CO 2. Selectively isolate and identify microbes using morphological and biochemical tools.
- CO 3. Understand the symbiotic association of microorganisms through experiments.
- CO 4. Assess microbial quality of drinking water and milk.
- CO 5. Perform microbiological assays for antibiotics and amino acids.

1. Quantitative and qualitative assessment of microflora of soil, water and air by direct and indirect methods.
2. Selective isolation of microbes (bacteria, actinomycetes, yeasts and fungi)
3. Studies on symbiotic association of microorganisms (rhizobia, cyanobacteria and arbuscular mycorrhizae)
4. Simple and special morphological and biochemical tests for identification of bacteria, fungi
5. Assessment of microbial quality of drinking water and milk
6. Microbiological assays (antibiotics and amino acids)

