

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)

