

MANGALORE UNIVERSITY
DEPARTMENT OF BIOSCIENCES
M.Sc. ENVIRONMENTAL SCIENCE

ESP410 ENVIRONMENTAL MICROBIOLOGY LAB

Course Outcomes:

CO1 Isolate and identify microorganisms in air/soil/water samples.

CO2 Learn staining procedures for microorganisms.

CO3 Understand the techniques and instrumentations in environmental microbiology.

CO4 Learn the qualitative tests for checking the quality of milk.

1. Introduction to basic techniques and instrumentation in microbiology.
2. Simple and differential staining for morphological studies.
3. Assessment of microflora of soil, water and air.
4. Isolation of microbes using selective media.
5. Studies on symbiotic association of microorganisms.
6. Assessment of microbial quality of drinking water and milk.
7. Microbiological assays.