

**MANGALORE UNIVERSITY**

DEPARTMENT OF BIOSCIENCES

M.Sc. ENVIRONMENTAL SCIENCE

ESP409 ENVIRONMENTAL GEOLOGY LAB

Course Outcomes:

CO1 Exercise and compute water budget.

CO2 Observe hand specimens to identify and classify different types of rocks.

CO3 Estimate ground water quality.

CO4 Understand geological map interpretation.

1. Study of minerals – Hand Specimens
2. Study of Rocks – Hand Specimens
3. Structural Geology – Interpretation of geological maps, solving Dip and Strike Problems
4. Sedimentology – Classification of sediments, sediment and rock fragments.
5. Sieve analysis of sediments, pipette analysis, pebble classification
6. Study of littoral drift in the field and laboratory using dye and tracer techniques
7. Drainage Basin Analysis Generation to drainage density and drainage frequency maps
8. Exercises related to water budget
9. Exercises related to Potential Evapotranspiration
10. Compute monthly water budget from the given data
11. Ground water quality – Impact and Testing.
12. Interpretation of waves, climate, tides and currents for the given data