

## **Certificate Course in Water Analysis: Monitoring of Water Quality in Kuttanadu**

### **Course objective**

This course intends students to acquire skills in the analysis of water quality parameters and thus monitoring water quality in Kuttanadu region, where the scarcity of good quality water is at its peak.

### **Course overview**

At the end of the course, the students understand the important parameters for measuring water quality. They also develop awareness about the various water quality parameters, their determination and the impact of water quality on public health and environment.

### **Syllabus**

Theory: Water quality parameters (10 hours)

Physical and chemical properties of water, methods of determination of various water quality parameters.

Practical: Laboratory tests for water quality parameters :(15 hours)

Determination of pH, alkalinity, hardness, chloride, iron and phosphate.

Project (5 hours)

Quality assessment of water samples collected from different regions of Kuttanadu.

### **Suggested reading**

1. Soil and water chemistry by Anu Gopinath
2. Environmental Chemistry by Anil Kumar De