

**Hands on Training  
Department of Environmental Science  
St. Edmund's College**

**Program: Water Quality Assessment – 1 (Under STAR College Scheme)**

**Date: 04.05.2022**

**Time: 2pm**

**Venue: Department of Environmental Science Laboratory**

**Teacher: Dr. Jasmine T. Sawian**

**No. of students: 12**

**Objective: To introduce and familiarize students of the Arts stream on techniques of Water Quality Sampling**

The Department of Environmental Science under the DBT Star College Scheme conducted practicals on the Determination of Water Quality Assessment for the students of B.A. (H) 6<sup>th</sup> semester, Department of Geography, SEC.

This was the first of the two sessions which was organized to introduce and familiarize students of the Arts stream on techniques of Water Quality Sampling. The students were explained about water pollution and its effects, including the different techniques of analysis.

The parameters chosen for the first part of the training included –

- Measurement of Temperature of water
- Determination of pH of water
- Determination of Dissolved Oxygen of water

Students were taught how to take the temperature of water and to read the values in a water thermometer. They were then demonstrated how to operate and calibrate a pH meter and then shown how to take the pH of water samples.

The students next learned how to determine Dissolved oxygen levels in water. They were given BOD bottles and shown how to collect, fix and determine the DO of water samples. All the students completed their experiments successfully.

## **Outcome of the Programme**

- Students are made aware of the importance of water quality and sources of pollution.
- Hand-on practice on collection and sampling of water.
- Learned the measurement of temperature and pH of water.
- Demonstration on titrimetric apparatus, glassware and titration techniques.
- Learned titrimetric method of sampling.
- Students are made aware of color change and end-point of reactions.
- Discussed environmental significance of the parameters in water.
- Discussed how Sampling may be used to test the finished water for regulatory purposes.