

Hands-on Training on Water Quality Assessment

Date: 27th to 31st March, 2023

Time: 2pm - 4 pm

Venue: Department of Environmental Science

Teachers: Dr. Jasmine T. Sawian and Ms. Larihun Jeengaph

No. of students: 08

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

A Hands-on Training was conducted by teachers of the Department of Environmental Science, on Water Quality Assessment for the students of B.A. (H) 6th semester, Department of Geography.

Water quality parameters are parameters that affect the quality of water in the environment. Water quality is determined by physical, chemical and biological properties of water. However, only a few of these water quality parameters play decisive roles in the overall health of the aquatic environment. These critical parameters are temperature, pH, suspended solids, turbidity, conductivity and concentrations of dissolved oxygen, ammonia, nitrite, CO₂, and alkalinity. Each individual parameter is important, but it is the aggregate and interrelationship of all the parameters that influence the health of the aquatic system. Water sampling is the process of taking a portion of water for analysis or other testing.

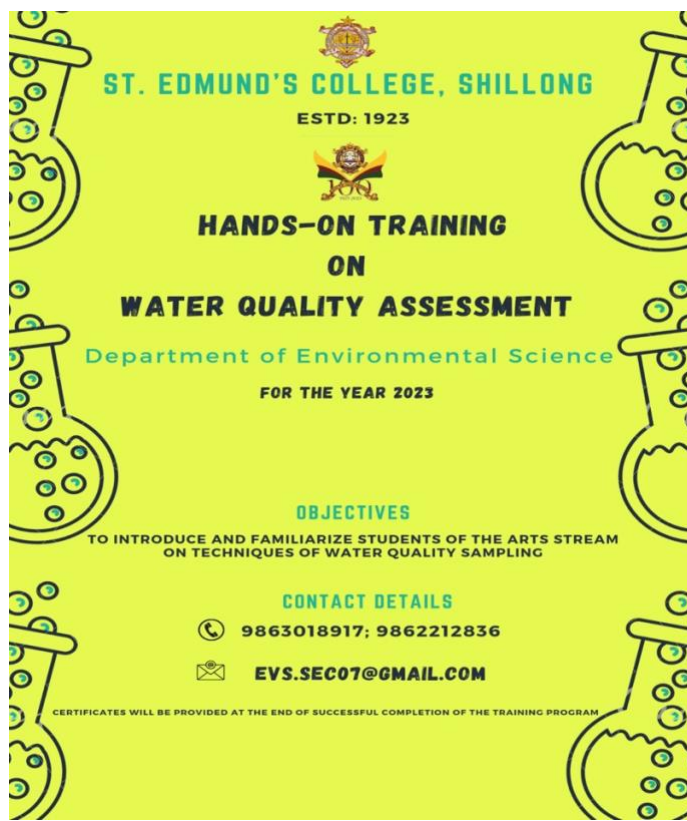
The parameters chosen for the Hands-on Training included –

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

- Determination of Acidity of water
- Determination of Alkalinity content of water

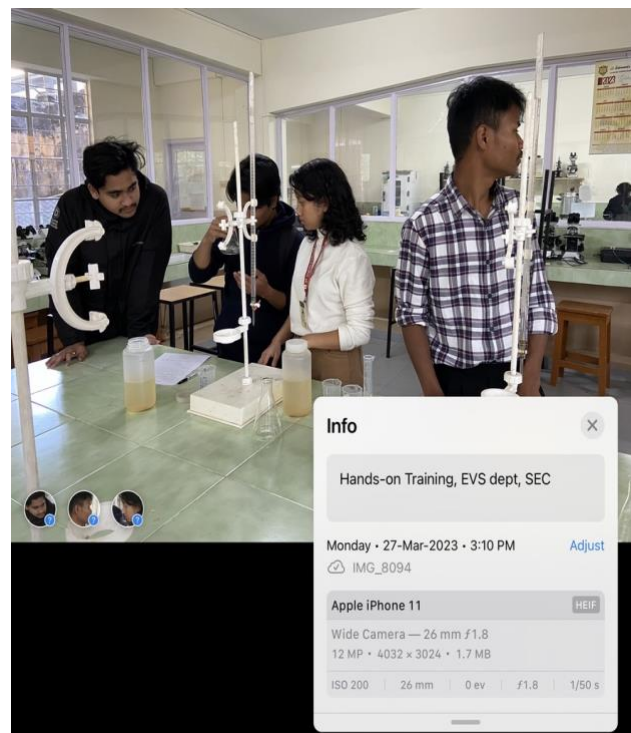
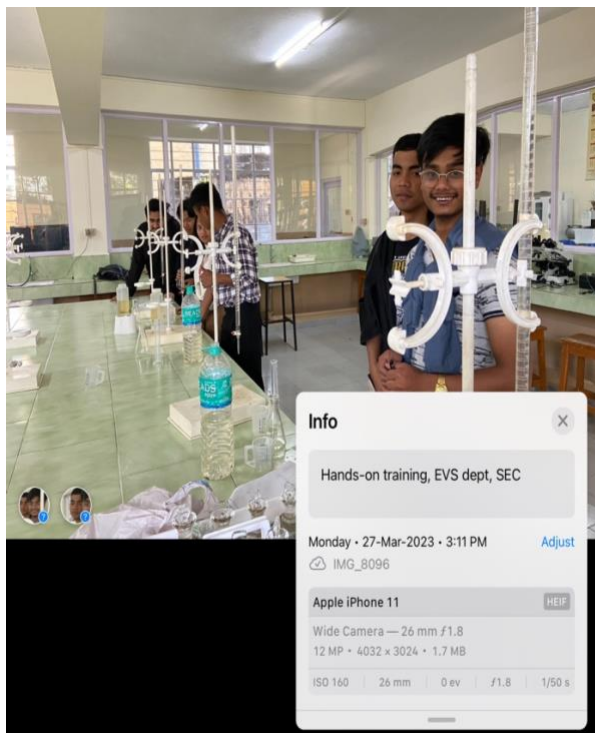
Outcome of the Programme

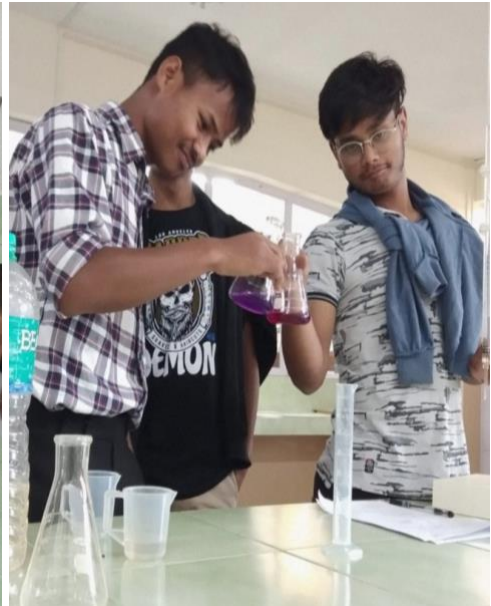
- Students are made aware of the importance of water quality and sources of pollution.
- Hand-on practice on collection and sampling of water.
- Learned the measurement of temperature and pH of water.
- Demonstration on titrimetric apparatus, glassware and titration techniques.
- Learned titrimetric 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.



Participants

Name	Class
Affidavit Patlong	6 th semester BA (H) Geography
Alseen K. Dkhar	6 th semester BA (H) Geography
Ephraim Khobung	6 th semester BA (H) Geography
Mark S. Pyngrope	6 th semester BA (H) Geography
Ramphila A. Shatshang	6 th semester BA (H) Geography
Arpit Chutia	6 th semester BA (H) Geography
Avelynn Nancy Manner	6 th semester BA (H) Geography
Stanly Kharmawphlang	6 th semester BA (H) Geography

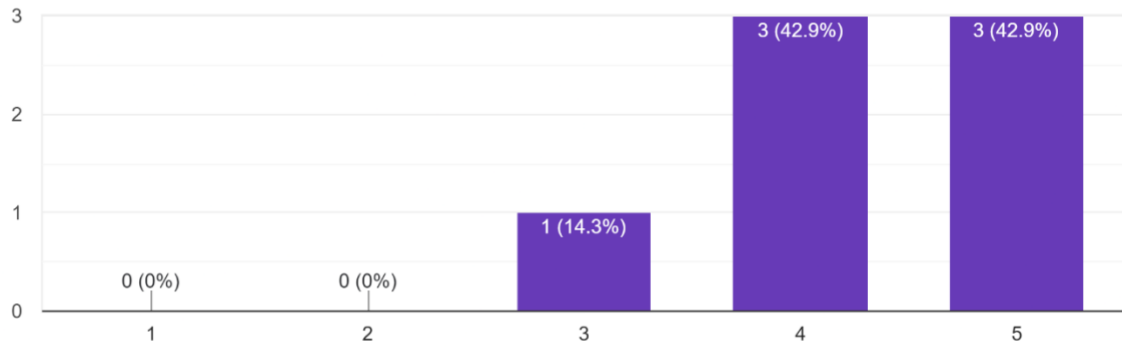




Course Feedback:

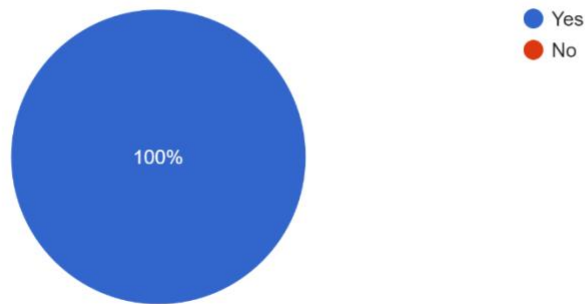
Q1. How satisfied are u with the training?

7 responses



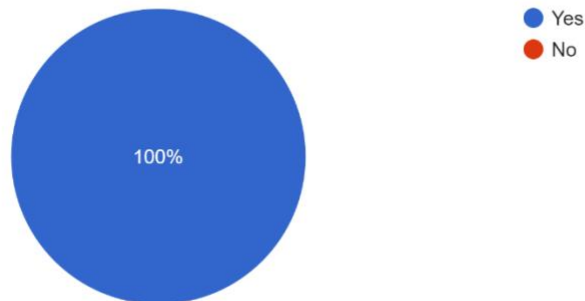
Q2. Were objectives of the training clear to you?

7 responses

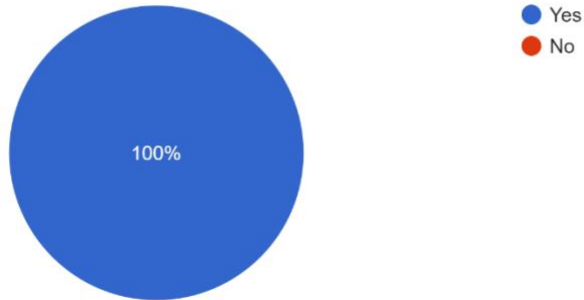


Q3. Practical demonstrations are clear

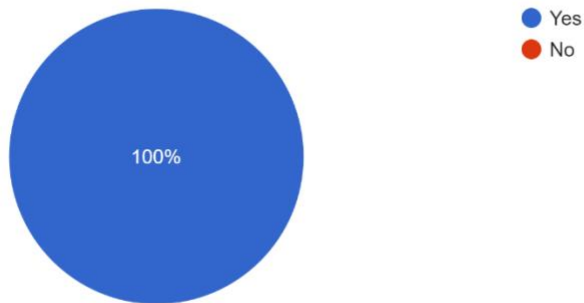
7 responses



Q4. The teaching aids were effectively used
7 responses

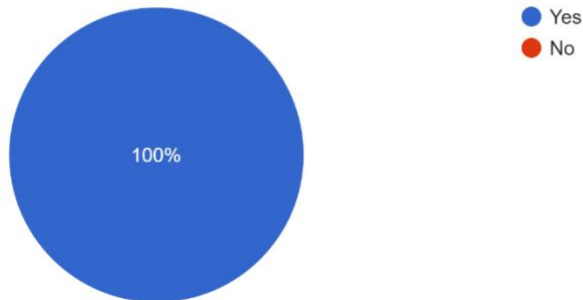


Q5. The training materials handed out was adequate
7 responses



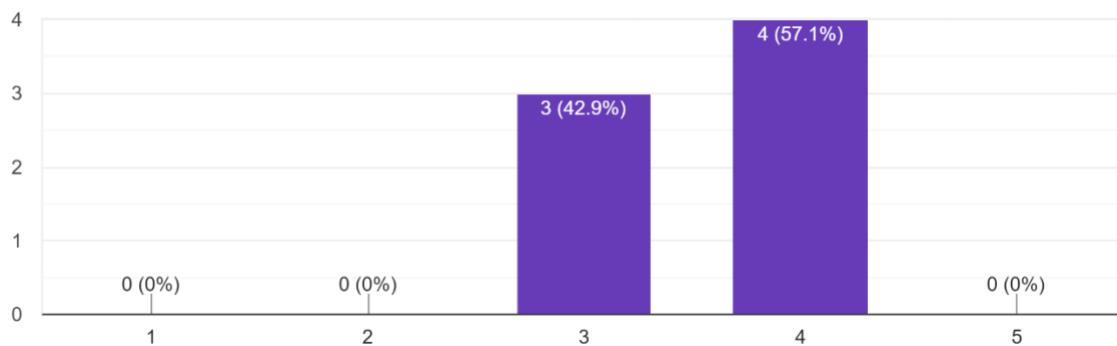
Q6. The training exposed you to new knowledge and practices

7 responses



Q7. Learning value (in terms of techniques of water quality sampling)

7 responses



Q8. Any overall feedback or suggestion for the course 7 responses

- Water testing has a valuable information for me since it's my first time doing it.
- It was nice and i would like to do it again
- It was a great experience
- Very nice and interesting
- None
- It's very interesting and I would prefer more days for the training
- Very interesting. No suggestions



ST. EDMUND'S COLLEGE, SHILLONG

ESTD: 1923



CERTIFICATE
OF PARTICIPATION

OF THE DEPARTMENT OF _____

HAS SUCCESSFULLY PARTICIPATED IN A FIVE DAYS HANDS-ON
TRAINING ON WATER QUALITY ASSESSMENT W.E.F 27TH MARCH TO
31ST MARCH, 2023 ORGANIZED BY THE DEPARTMENT OF
ENVIRONMENTAL SCIENCE, ST. EDMUND'S COLLEGE, SHILLONG

WISHING HIM/HER EVERY SUCCESS IN ALL HIS/HER ENDEAVORS

Dr. Jasmine T. Sawian
H.O.D & COORDINATOR

Dr. S. Lamare
PRINCIPAL

Ms. L. Jeengaph
COORDINATOR