

ADVANCED LABORATORY TRAINING ON ANALYSIS OF FECAL SLUDGE AND BIOSOLIDS



ABOUT THE TRAINING

In Bangladesh, various initiatives have been implemented to enhance fecal sludge management (FSM) through the establishment of treatment facilities. Understanding the quality of fecal sludge is crucial for designing appropriate technologies and ensuring compliance with environmental standards. However, the analysis of fecal sludge is a relatively new area for water and wastewater laboratories in the country. To address this gap, the Fecal Sludge Testing Laboratory (FSTL) of the Department of Civil Engineering, BUET has been equipped with modern facilities to conduct surveillance, monitoring, and validation of new technologies for fecal sludge treatment plants. This training on quality analysis of fecal sludge and biosolids will enhance the capacity of sanitation professionals to characterize the quality of biosolids and treated effluents and assess the resource recovery potential of treatment output products.



WHAT WILL YOU LEARN?

- ◆ Overview of FSM and resource recovery option
- ◆ Physio-chemical analysis of fecal sludge and biosolids
- ◆ Biological analysis of fecal sludge and biosolids
- ◆ Analytical skills on the quality parameters of fecal sludge and biosolids
- ◆ Operational skills in sophisticated equipment
- ◆ Analytical equipment calibration
- ◆ Good laboratory practices



TOPICS COVERED

- ◆ Overview of fecal sludge and its characterization
- ◆ Laboratory Quality Management and Safety Guidelines
- ◆ Analysis of BOD, COD, TKN, TVS TP, NO₂, NO₃
- ◆ Analysis of Fecal Coliform and *E. Coli*
- ◆ Enumeration of Helminth Eggs
- ◆ Estimation of Calorific Value
- ◆ Analysis of Heavy Metals
- ◆ Calibration of analytical equipment



COURSE REQUIREMENTS

- ◆ Basic understanding of sanitation, fecal sludge management and treatment
- ◆ Basic knowledge in environmental science, microbiology, chemistry, or related fields
- ◆ Familiarity with laboratory practices for characterizing water and wastewater



WHY JOIN THIS COURSE?

- ◆ Expert-led sessions
- ◆ Hands-on laboratory experiments
- ◆ State-of-the-art laboratory equipment
- ◆ Industry-standard protocols



WHO SHOULD ATTEND?

- ◆ Laboratory professionals
- ◆ FSM/sanitation professionals
- ◆ Researchers
- ◆ Scientists



REGISTRATION INFORMATION

- ◆ Seats are limited, so apply early!
- ◆ Application link: <https://tinyurl.com/FSB-ITN>



BENEFITS

- ◆ Hands-on Experience, Training Kits, Resource Materials, Course Certificate



CONTACT INFORMATION

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Training Date:

7 - 11 SEPT 2025



Application Deadline:

27 August 2025



Early Bird Fee: **BDT 20,000**

(Till 31 July 2025)

Regular Fee: **BDT 25,000**



Total Seats:

20 (First-come, first-served basis)



Mode:

In-person: Theoretical lectures,
Hands-on practices



Venue:

ITN-BUET and FSTL of CE, BUET

Course Director



Ms. Snigdha Afsana

Assistant Professor
Civil Engineering, BUET

Key Resource Persons



Dr. Mafizur Rahman

Professor
Civil Engineering, BUET



Dr. Rowshan Mamtaz

Professor, **Civil Engineering, BUET**
Director, **ITN-BUET**



Dr. Tanvir Ahmed

Professor
Civil Engineering, BUET



Dr. Sheikh Mokhlesur Rahman

Professor
Civil Engineering, BUET

Course Coordinator



Dr. Md. Ehosan Habib

Sr. Experimental Engineer
Civil Engineering, BUET

APPLY NOW

SCAN TO APPLY

