

89th TRAINING PROGRAMME OF NITUB



**TRAINING PROGRAMME ON THE USE, MAINTENANCE,
APPLICATION AND TROUBLE-SHOOTING OF ATOMIC
ABSORPTION SPECTROSCOPY (AAS) AND INDUCTIVELY
COUPLED PLASMA SPECTROMETRY (ICPMS)**

06–11 June 2026



Organized by

Network of Instrument Technical personnel and User
scientists of Bangladesh (NITUB)

Venue

**BCSIR Dhaka Laboratories, and
Central Analytical and Research Facilities (CARF), BCSIR, Dhaka
Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205**

Programme Committee

Dr. Altaf Hussain Convener
Former Professor
Department of Chemistry, DU
&
General Secretary, NITUB

Dr. Md. Hossain Sohrab Member
Director
BCSIR Dhaka Laboratories, Dhaka-1205

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Background

The Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB), a voluntary non-profit, non-political learned society, is functioning since 1994 with the aim to improve the capability of scientists and technical personnel of Bangladesh to use, maintain and repair scientific equipment.

NITUB is regularly conducting training programme on the use and maintenance of specific group of instruments such as HPLC, GC, AAS, NMR Spectrometer, UV-Vis & IR Spectrophotometer, X-ray, GC-MS/MS, LC-MS/MS etc. Other than these specific groups of instruments training programmes, NITUB also organizes training programmes on Common Laboratory Equipment and on Common Medical Instruments. So far, NITUB has conducted 88 training programmes in which 1348 young faculties, scientists, postgraduate students, technical personnel and medical personnel have participated. Another very popular programme of NITUB, Instrument Repair Programme, which runs throughout the year and through this programme NITUB repairs non-functioning scientific instruments of Bangladesh. NITUB has already repaired 2356 non-functioning scientific equipment of different educational and research organizations of Bangladesh. A few regional and international scientists and technical personnel also participated in NITUB programmes.

NITUB organized last AAS training programme in 2025. The EC of NITUB, decided to organize the 89th training programme of NITUB on the use, maintenance, application and trouble-shooting of Atomic Absorption Spectroscopy (AAS) and Inductively Coupled Plasma Mass Spectrometry (ICPMS).

Training Programme

The AAS & ICPMS training programme will include theoretical lectures and practical sessions on the use, maintenance, application and trouble-shooting. A tentative time-table for the training programme is given in the brochure however, the final programme will be sent to the selected participants later. The training programme will be conducted by university professors, senior scientists and NITUB technical experts.

Participants

A maximum of 25 (Twenty-five) participants will be selected from among the applications of scientists and technical personnel of public and private educational institutes and research organizations. Applicants having AAS & ICPMS facilities at their institutes will get preference to participate in the training programme.

Registration

Applications to participate in the 89th training programme of NITUB should reach the General Secretary, NITUB, on or **before 25 May 2026** in the form given in the brochure. Application must be sent through proper channel **along with a training fee of Tk. 15,000/- (taka fifteen thousand) in the form of a bank draft or pay order in the name of NITUB (Sonali Bank PLC, Dhaka University Branch, Account No. 4405734255099)**. Training fee will include registration, teaching materials, lunch and tea.

Selected participants will be informed by **02 June 2026** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

06 June 2026 (Saturday)

- 0900-0930 - Registration of the Participants
0930-1100 - Inauguration of AAS & ICPMS Training Programme
1100-1130 - Tea
1130-1230 - **Lecture-1:** Basic principle of AAS & ICPMS
1230-1400 - Lunch
1400-1700 - *Lab 1: Instrumentation of AAS & ICPMS*
1700- 1730 - Tea & Discussion

07 June 2026 (Sunday)

- 0930-1030 - **Lecture 2:** Sampling, sample preparation and preservation techniques for AAS. (Environmental, food and pharmaceutical samples)
1030-1100 - Tea
1100-1300 - *Lab 2: Group A & B: Sampling, sample processing, preparation and preservation (Soil/solid waste, water, food and pharmaceutical samples)*
1300-1400 - Lunch
1400-1530 - *Lab 2; Continuation*
1530-1600 - Tea
1600-1700 - *Lab 2 : Continuation*

08 June 2026 (Monday)

- 0930-1030 - **Lecture 3:** Analytical techniques and method development for AAS & ICPMS
1030-1100 - Tea
1100-1300 - *Lab 3: Group A: Quantification of trace metals in environmental sample by flame technique*
Lab 4: Group B: Measurement & detection of Arsenic in water by HG-AAS technique
1300-1400 - Lunch
1400-1530 - *Lab 3 & 4; Continuation*
1530-1600 - Tea
1600-1700 - *Lab 3 & 4; Continuation*

09 June 2026 (Tuesday)

- 0930-1030 - **Lecture 4:** Quality Assurance/Quality Control and Quantifying Uncertainty in AAS & ICPMS analysis
1030-1100 - Tea
1100-1300 - *Lab 5; Group B: Quantification of trace metals in environmental sample by flame technique*
Lab 6; Group A: Measurement & detection of Arsenic in water by HG-AAS technique
1300-1400 - Lunch
1400-1530 - *Lab 5 & 6; Continuation*
1530-1600 - Tea
1600-1700 - *Lab 5 & 6; Continuation*

10 June 2026 (Wednesday)

- 0930-1030 - **Lecture 5:** Sample Analysis technique in Inductively Coupled Plasma Mass Spectrometry.
1030-1100 - Tea
1100-1300 - *Lab 7; Group A: Analysis of environmental & biological samples in graphite furnace AAS*
Lab 8; Group B: Analysis of trace metals in Inductively Coupled Plasma Mass Spectrometry
1300-1400 - Lunch
1400-1530 - *Lab 7 & 8; Continuation*
1530-1600 - Tea
1600-1700 - *Lab 7 & 8; Continuation*

11 June 2026 (Thursday)

- 0930-1030 - **Lecture 6:** Trouble-shooting in application of AAS & ICPMS analysis
1030-1100 - Tea
1100-1300 - *Lab 7; Group A: Analysis of trace metals in Inductively Coupled Plasma Mass Spectrometry*
Lab 8; Group B: Analysis of environmental & biological samples in graphite furnace AAS
1300-1400 - Lunch
1400-1530 - Open Discussion
1600-1700 - Closing ceremony and Certificate distribution
1700 - Tea



89th Training Programme of NITUB

On the use, maintenance, application, trouble-shooting and
of Atomic Absorption Spectroscopy (AAS) &
Inductively Coupled Plasma Mass Spectrometry (ICPMS).

06-11 JUNE 2026

APPLICATION FORM

Name of the applicant (Block Letter)	
Date of birth	
Academic qualification	
Designation	
Institute/Organization with address	
Phone / cell phone number	
E-mail Address	
Any previous training? If yes, please specify	
Date:	Signature of the applicant

Recommendation from the Head of Institution / Organization

Date:	Signature
	Name & Seal