

90th TRAINING PROGRAMME OF NITUB



BANGLADESH UNIVERSITY OF HEALTH SCIENCES

TRAINING PROGRAMME ON THE USE, MAINTENANCE AND TROUBLE-SHOOTING OF COMMON MEDICAL INSTRUMENTS

07-12 November 2026

Organized by

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

Venue

**Bangladesh University of Health Sciences
(BUHS), 125/1, Darus Salam, Mirpur, Dhaka.**

Organizing Committee

Professor Begum Rokeya Convener
Dean
Department of Pharmacology
BUHS, Dhaka.

Professor SM Muraduzzaman Member
Department of Biomedical Engineering
& Medical Physics
BUHS, Dhaka

Professor Md Shahinul Hoque Khan Member
Department of chemistry
BUHS, Dhaka.

All correspondence should be addressed to
Professor Begum Rokeya

Dean

Department of Pharmacology, BUHS, Dhaka.
and

Joint Secretary, NITUB

Cell: +88 01711 811350,

Email: b_rokeya@yahoo.com

Or

Professor Altaf Hussain

General Secretary, NITUB

Cell: +88 01552 421909,

Email: nitub@bangla.net

NITUB Office Address:

300, Elephant Road, Alishan Complex

(6th Floor, Room No. 607) Dhaka-1205, Bangladesh

Contact: 02223-364136, 01711- 984234, 01558-300670

md.akchowdhury@gmail.com, tanvir.uddin@yahoo.com

Web: www.nitub.org

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 to use, maintain and repair of scientific equipment properly.

NITUB is regularly conducting training programme on the use and maintenance of specific group of instruments such as HPLC, GC, AAS, ICPMS, 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 89 training programmes in which 1361 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.

NITUB organized last common medical instruments training programme in 2023. The EC of NITUB, decided to organize the 90th training programme of NITUB on the use, maintenance and trouble-shooting of common medical instruments (CMI).

Training Programme

The 90th training programme of NITUB will include theoretical lectures and practical training sessions on the operation, maintenance and troubleshooting of common medical instruments, such as **Microscope, Incubator, pH Meter, Colorimeter, Semiauto and Autoanalyzer, ELISA Reader Hematology analyzer, PCR, Digital Balance, X-ray** and on other routine diagnostic laboratory equipment. The training will be conducted by professors, senior scientists and NITUB technical experts.

Participants

A maximum of **20 (Twenty)** participants will be selected from among the applicants of various public/private hospitals and health centers. The detailed programme will be sent later to the selected participants. Selected participants may bring one/two of their non-functioning portable medical equipment and try to repair the instruments during the practical sessions of the training programme.

Registration

Applications for the 90th training programme on common medical instruments should reach the **General Secretary of NITUB** on or **before 01 November 2026** in the form given in the brochure. The application must be sent through proper channel **along with a training fee of Tk. 7000/- (Taka Seven 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).** The training fee will include **registration, instruction materials, lunch, and tea.**

Selected participants will be informed by **03 November 2026** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

07 November 2026 (Saturday)

09.00 – 10.00	Inaugural Session
10.00 – 10.30	Tea / Coffee
10.30 – 11.30	Lecture-1: Common Medical Equipment: microscope use, maintenance and troubleshooting
11.30 – 12.30	Lecture-2: Quality Sample Collection, Handling and Preservation for an Effective Microbial Testing
12.30 – 13.15	Practical Session: Group -A: Specimen Collection Group -B: Microscope
12.30 – 13.15	Prayer & Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

08 November 2026 (Sunday)

09.00 – 10.00	Lecture-3: Photometric techniques in clinical laboratory
10.00 – 11.00	Lecture-4: Detection of CT value by RT-PCR
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: Spectrophotometer Group -B: RT-PCR
13.00 – 14.00	Prayer & Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

09 November 2026 (Monday)

09.00 – 10.00	Lecture-5: Automated Blood Cell Culture
10.00 – 11.00	Lecture-6: Safety in a clinical laboratory
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: Automated Blood Cell Culture and Hematology analyzer Group -B: Semi-Auto & Automated Biochemistry Analyzer
13.00 – 14.00	Prayer & Lunch
14.00 – 16.00	Practical: Rotation of Group A and B

16.00 – 16.30 Tea / Coffee

10 November 2026 (Tuesday)

09.00 – 10.00	Lecture-7: Introduction of Principles of Enzyme-Linked Immunosorbent Assay (ELISA) and its Troubleshooting
10.00 – 11.00	Lecture-8: Microtome, a useful tool in the histopathology laboratory
11.00 – 11.30	Tea / Coffee
11.30 -13.00	Practical Session: Group -A: ELISA Group -B: Microtome maintenance
13.00 – 14.00	Prayer & Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

11 November 2026 (Wednesday)

09.00 – 10.00	Lecture-9: Medical equipment and their principles used in diagnostic radiology and imaging
10.00 – 11.00	Lecture-10: Safety in radiology
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: X- ray/ imaging Group -B: Ultra sonogram
13.00 – 14.00	Prayer & Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

12 November 2026 (Thursday)

09.00 – 10.00	Lecture-11: Use and maintenance of small laboratory instruments
10.00 – 11.00	Practical Session: Group -A: pH Meter, Incubator Group -B: Sonicator, Digital Balance, Dessicator
11.00 – 11.30	Tea / Coffee
11.30 – 12.45	Practical Session: Rotation of Group A and B
13.45 – 14.15	Prayer & Lunch
14.15 – 16.00	Open discussion, Concluding Session and Certificate Distribution



90th Training Programme of NITUB
on the use, maintenance and trouble-shooting of
Common Medical Instruments (CMI)
07 -12 November 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