

83rd TRAINING PROGRAMME OF NITUB



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

12-18 August 2023

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

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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 to use, maintain and repair of scientific equipment properly.

NITUB is regularly conducting training programmes on the use and maintenance of specific groups of instruments such as AAS, HPLC, GC, UV-VIS, IR and X-ray etc. Other than specific groups of instruments, NITUB also conducts training programme on common laboratory equipment and also on common medical instruments. NITUB has already trained more than 1253 scientists and technical personnel through its training programmes. Other than training programmes, NITUB is also conducting Instrument Repair Programme through which non-functioning scientific instruments are being repaired. So far, NITUB has repaired 2046 scientific equipment of different educational and research organizations of Bangladesh

NITUB already has organized twelve training programmes on common medical instruments and the last one was organized in 2022. NITUB is getting requests from the user scientists and medical technologists from different hospitals and laboratories to organize training programme on common medical instruments in 2023. Therefore, NITUB plans to organize its 83rd training programme on the use, maintenance and trouble-shooting of common medical instruments.

Training Programme

The 83rd 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 83rd training programme on common medical instruments should reach the **General Secretary of NITUB** on or **before 08 August 2023** in the form given in the circular. The application must be sent through the proper channel **along with a training fee of Tk. 5000/- (Taka Five thousand) in the form of a bank draft, pay order or online payment in the NITUB account (Name of the account, NITUB, Account No. 4405734255099, Sonali Bank Limited, Dhaka University Corporate Branch, Dhaka-1000).** The training fee will include **registration, instruction materials, lunch, and tea.** Selected participants will be informed by **10th August 2023** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

12 August 2023 (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

13 August 2023 (Sunday)

09.00 – 10.00	Lecture-3: Automated Blood Cell Counter
10.00 – 11.00	Lecture-4: Detection of SARS-COV2 by RT-PCR
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: Automated Blood Cell Counter Group -B: RT-PCR for SARS-COV-2
13.00 – 14.00	Prayer & Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

14 August 2023 (Monday)

09.00 – 10.00	Lecture-5: Photometric techniques in clinical laboratory
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: Spectrophotometer 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

15 August 2023 (Tuesday) -Holiday (National mourning day)

16 August 2023 (Wednesday)

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

17 August 2023 (Thursday)

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

18 August 2023 (Friday)

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



83rd Training Programme of NITUB
on the use, maintenance and trouble-shooting of
Common Medical Instruments
12-18 August 2023

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