

74th TRAINING PROGRAMME OF NITUB



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

19 -24 October 2019

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 1107 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 1757 scientific equipment of different educational and research organizations of Bangladesh

NITUB already has organized nine training programmes on common medical instruments and the last one was organized in 2018. NITUB is getting requests from the user scientists and medical technologists from different hospitals and laboratories to organize training programme on common medical instruments on a regular basis. Therefore, NITUB plans to organize its 74th training programme on the use and maintenance of common medical instruments.

Training Programme

The 74th training programme of NITUB will include theoretical lectures and practical training sessions on operation, maintenance and trouble-shooting of common medical instruments, such as **Microscope, Incubator, pH Meter, Colorimeter, Semiauto and Autoanalyzer, ELISA Reader Hematology analyzer, 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 74th training programme on common medical instruments should reach the **General Secretary of NITUB** on or **before 10 October 2019** in the form given in the circular. Application must be sent through proper channel **along with a training fee of Tk. 5000/- (Taka Five thousand) in the form of a bank draft, pay order or on-line pay in the name of "NITUB" (Sonali Bank Limited, Dhaka University Branch, Account No. 4405734255099)**. Training fee will include **registration, instruction materials, lunch, and tea.**

Selected participants will be informed by **16 October 2019** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

19 October 2019 (Saturday)

09.00 – 10.00	Inaugural Session
10.00 – 10.30	Tea / Coffee
10.30 – 11.30	Lecture-1: Common Medical Equipment-microscope: maintenance & troubleshooting
11.30 – 13.15	Practical Session: Group-A & Group-B: Microscope
13.15-14.00	Lunch
14.00 – 16.00	Practical: Group A and B Microscope contd.
16.00 – 16.30	Tea / Coffee

20 October 2019 (Sunday)

09.00 – 10.00	Lecture-2: Quality Sample Collection, Handling, and Preservation of sample for an Effective Microbial testing
10.00 – 11.00	Lecture-3: Automated Blood Cell Counter
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: Microbiology Practical Group -B Automated Blood Cell Counter
13.00 – 14.00	Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

21 October 2019 (Monday)

09.00 – 10.00	Lecture-4: Biochemistry auto analyzer maintenance and on-site troubleshooting
10.00 – 11.00	Lecture-5: Photometric techniques in clinical laboratory
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: Biochemistry auto analyzer Group -B: Spectrophotometer, colorimeter
13.00 – 14.00	Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

22 October 2019 (Tuesday)

09.00 – 10.00	Lecture-6: ELISA General guideline and Troubleshooting
10.00 – 11.00	Lecture-7: Maintenance & troubleshooting of Dimension, and other machines
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: ELISA Group -B Dimension, and other machines
13.00 – 14.00	Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

23 October 2019 (Wednesday)

09.00 – 10.00	Lecture-8: Genetic polymorphism in the disease pathogenesis & its complications
10.00 – 11.00	Lecture-9: Microtome, a useful tool in Histopathology Laboratory
11.00 – 11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Group -A: Common troubleshoots in Gel Electrophoresis in DNA lab Group -B: Microtome
13.00 – 14.00	Lunch
14.00 – 16.00	Practical: Rotation of Group A and B
16.00 – 16.30	Tea / Coffee

24 October 2019 (Thursday)

09.00 – 10.00	Lecture-10: Safety in a clinical laboratory
10.00 – 11.00	Lecture-11: Use & maintenance of small lab instruments: Digital Balance, Ph Meter, Dessicator, Sonicator, etc.
11.00-11.30	Tea / Coffee
11.30 – 13.00	Practical Session: Digital Balance, Ph Meter, Sonicator etc
13.00 – 14.00	Lunch
14.00 – 16.00	Open discussion, Concluding Session and Certificate distribution

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MAINTENANCE OF COMMON MEDICAL
INSTRUMENTS.**

19 -24 October 2019

APPLICATION FORM

Name of the applicant :
Date of birth :
Academic qualification :
Designation :
**Institution/Organization
with address** :
Phone and Cell 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 :
Designation :