

62nd TRAINING PROGRAMME OF NITUB



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

26 November - 01 December 2016

Organized by

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

Venue

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 of improving 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 860 scientists and technical personnel of Bangladesh 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 about 1500 scientific equipment of different educational and research organizations of Bangladesh

NITUB already has organized six training programme on common medical instruments and the last one was organized in 2015. 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 62nd training programme on the use and maintenance of common medical instruments.

Training Programme

The 62nd 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, Sucker machine, Colorimeter, Semiauto and Autoanalyzer, Hematology analyzer, ECG, Ultrasonograph, , X-ray** and on other routine 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 62nd training programme on common medical instruments should reach the **General Secretary of NITUB** on or **before 22 November 2016** 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 or pay order in the name of NITUB (Sonali Bank Limited, Dhaka University Branch, Account No. 34255099).** Training fee will include **registration, instruction materials, lunch, and tea.**

Selected participants will be informed by **24 November 2016** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

November 26 2016 (Saturday)

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|---------------|--|
| 09.00 –10.00 | Inaugural Session |
| 10.00 –10.30 | Tea / Coffee |
| 10.30 –11.30 | Lecture-1: Quality Sample Collection, Handling, and Preservation for an Effective Microbial |
| 11.30 –12.30 | Lecture-2: Common Medical Equipment- microscope: maintainence & troubleshooting. |
| 12.30 –13.15 | Practical Session: Microscope |
| 13.15-1400 | Lunch |
| 14.00 –16.00 | Practical Session: Microscope (continuation) |
| 16.00 – 16.30 | Tea / Coffee |

November 27 2016 (Sunday)

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|---------------|--|
| 09.00 – 10.00 | Lecture-3: Automated Blood Cell Counter |
| 10.00 – 11.00 | Lecture-4: Biochemistry auto analyzer maintenance and on-site troubleshooting |
| 11.00 – 11.30 | Tea / Coffee |
| 11.30 – 13.00 | Practical Session: Biochemistry auto analyzer and Blood Cell Counter |
| | Group -A: Automated Blood Cell Counter |
| | Group -B: Semi Auto & Biochemistry auto Analyzer |
| 13.00 – 14.00 | Lunch |
| 14.00 – 16.00 | Practical: Rotation of Group A and B |
| 16.00 – 16.30 | Tea / Coffee |

November 28 2016 (Monday)

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|---------------|--|
| 09.00 – 10.00 | Lecture-5: Photometric techniques in clinical laboratory |
| 10.00 – 11.00 | Lecture-6: Genetic polymorphism in the disease pathogenesis & its complications |
| 11.00 – 11.30 | Tea / Coffee |

11.30 – 13.00

Practical Session:

Group -A: Spectrophotometer, colorimeter
Group -B: Common troubleshoots in Gel electrophoresis in DNA lab

13.00 – 14.00

Lunch

14.00 – 16.00

Practical: Rotation of Group A and B

16.00 – 16.30

Tea / Coffee

November 29 2016 (Tuesday)

09.00 – 10.00 **Lecture-7:** ELISA: General guidelines and troubleshooting

10.00 – 11.00

Lecture-8: Safety in a clinical laboratory

11.00 – 11.30

Tea / Coffee

11.30 – 13.00

Practical Session:

Group -A: ELISA

Group -B: Electrophoresis

13.00 – 14.00

Lunch

14.00 – 16.00

Practical: Rotation of Group A and B

16.00 – 16.30

Tea / Coffee

November 30 2016 (Wednesday)

09.00 – 10.00 **Lecture-9:** Classification of medical equipments. Basic principles & application of imaging technology in medical field.

10.00 – 11.00

Lecture-10: ECG, ETT & other electrophysiological techniques used in cardiology

11.00 – 11.30

Tea / Coffee

11.30 – 13.00

Practical Session:

Group -A: X-Ray/ imaging

Group -B: ECG, ETT

13.00 – 14.00

Lunch

14.00 – 16.00

Practical: Rotation of Group A and B

16.00 – 16.30

Tea / Coffee

December 01 2016 (Thursday)

09.00 – 10.00

Lecture-11: Safety measure in radiology

10.00 – 11.00

Lecture-12: Repair and maintenance procedure of conventional X-ray machine

11.00-11.30

Tea / Coffee

11.30 – 13.00

Practical Session:

X-ray/imaging, ultra sonogram

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.**

26 November - 01 December 2016

APPLICATION FORM

Name of the applicant :

Date of birth :

Academic qualification :

Designation :

**Institution/Organization
with address :**

Phone and Cell number :

E-mail Address :

Designation :

**Any previous training,
If yes, please specify :**

Date: Signature of the applicant

**Recommendation from the Head of
Institution / Organization.**

Date: Signature :
Name :
Designation :