

76TH TRAINING PROGRAMME OF NITUB



A WORKSHOP ON THE USE, MAINTENANCE AND TROUBLE-SHOOTING OF COMMON LABORATORY EQUIPMENT

28 December 2019 – 02 January 2020

Organized by

**Network of Instrument Technical personnel and
User scientists of Bangladesh (NITUB)
&
Shahjalal University of Science & Technology
(SUST)**

Venue

**Department of Chemistry, Shahjalal University of Science &
Technology (SUST), Sylhet-3114, Bangladesh**

Programme Committee

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Background

To improve the capability of proper use, maintenance and repair of scientific equipment, scientists and technical personnel of Bangladesh launched a network, " Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB)" on 19 July 1994. NITUB is a voluntary, non-profit, non-political learned society dedicated to scientific education and research in Bangladesh.

NITUB has organized a large number of training programmes on specific groups of instruments such as AAS, HPLC, UV-VIS and IR etc. NITUB conducts also training programmes on common laboratory equipment for technical personnel, teachers and on common medical equipment for medical professionals. Another programme of NITUB is Instrument Repair Programme through which non-functioning scientific instruments are being repaired. NITUB has already trained more than 1142 scientists and technical personnel of Bangladesh through its training programmes and repaired more than 1776 non functioning scientific equipment of different educational and research organizations of Bangladesh.

The last training programme on the use, maintenance and trouble-shooting of common laboratory equipment was held at the Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur-5200, October 2018. NITUB used to conduct almost every year one training programme on common laboratory equipment.

The 76th training programme of NITUB will be held at the Shahjalal University of Science & Technology (SUST), Sylhet-3114, on the use, maintenance and trouble-shooting of common laboratory equipment for technical personnel, user scientists, young faculties and post-graduate students of science faculties on 28 December 2019 – 02 January 2020.

Workshop Programme

The 76th training programme of NITUB will consist of theoretical lectures and also intensive practical sessions (a tentative programme enclosed) on operation, maintenance and trouble shooting of common laboratory equipments like Spectrophotometers, Balance, Oven, Microscope, Conductometer, pH-meter, Colorimeter, Vacuum pump etc. **University professors, technical experts and engineers will conduct the workshop.**

Participants

Persons working in universities, university colleges and research organizations may apply to participate in the training programme. A maximum of **20 (Twenty)** participants will be selected from among the applications. NITUB welcomes national and regional participants in its 76th training programme.

Participants may bring one/two of their non-functioning portable instruments and repair the instruments during the practical sessions of the training programme.

Registration

Applications to participate in the 76th training programme on the use, maintenance and trouble-shooting of common laboratory equipment should reach the **General Secretary of NITUB** on or **before 20 December 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 payment in the name of "NITUB" (Sonali Bank Limited, Dhaka University Campus Corporate Branch, Account No. 4405734255099).** Training fee will include **registration, training materials, lunch and tea.**

Selected participants will be informed by **24 December 2019** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

28 December-2019 (Saturday)

0900-1000 - Registration

1000-1100 - Inauguration

1100-1130 - Tea

1130-1300 - *Lecture 1:* Laboratory Safety

1300-1400 - Lunch

1400-1630 - Practical session -I

Group – I, Lab.-A

pH-Meter, Refract meter, Colorimeter, Conductivity Meter, Magnetic Stirrer, Flame Photometer, Electric Balance etc

Group – II, Lab. - B

Autoclave, Hot plate, Rotary evaporator, Shaker, Oven, Muffle furnace, Incubator, Water bath, Distillation plant etc

Group – III, Lab. - C

Microscope, Polarimeter, Centrifuge, Freeze Dryer, High Vacuum Pump, Micro Combustion Unit, Melting point apparatus etc

1630-1700 - Tea

29 December-2019 (Sunday)

1000-1100 - *Lecture 2:* Basic principles of some commonly used laboratory equipment.

1100-1130 - Tea

1130-1300 - Practical session - II

Group - I; Lab. - A

Group - II; Lab. - B

Group - III; Lab. - C

1300-1400 - Lunch

1400-1630 - Practical session -II (Continuation)

1630-1700 - Tea

30 December-2019 (Monday)

1000-1100 - *Lecture 3:* Trouble-shooting, Methods, Techniques and Procedures (Analogue and Digital Equipment)

1100-1130 - Tea

1130-1300 -Practical session – III

Group - I; Lab. - B

Group - II; Lab. - C

Group - III; Lab. - A

1300-1400 - Lunch

1400-1630 - Practical session -III (Continuation)

1630-1700 - Tea

31 December-2019 (Tuesday)

1000-1100 - *Lecture 4:* Basic Electronics -I.

1100-1130 - Tea

1130-1300 - Practical session - IV

Group - I; Lab. - B

Group - II; Lab. - C

Group - III; Lab. - A

1300-1400 - Lunch

1400-1630 - Practical session -IV (Continuation)

1630-1700 - Tea

01 January -2020 (Wednesday)

1000-1100 - *Lecture 5:* Basic Electronics -II

1100-1130 - Tea

1130-1300 - Practical session -V

Group - I; Lab. - C

Group - II; Lab. - A

Group - III; Lab. - B

1300-1400 - Lunch

1400-1630 - Practical session -V (Continuation)

1630-1700 - Tea

02 January -2020 (Thursday)

1000-1100 - *Lecture 6:* Fabrication of few low cost Laboratory Equipment.

1100-1130 - Tea

1130 -1300 - Practical session –VI

Group - I; Lab. - C

Group - II; Lab. - A

Group - III; Lab. - B

1300-1400 - Lunch

1400-1500 - Open Discussion

1500-1600 - Closing Ceremony & Certificate Distribution

1600 - Tea



76th Training Programme of NITUB

On the use, maintenance and trouble-shooting of
Common Laboratory Equipment

28 December 2019 – 02 January 2020

Venue: Shahjalal University of Science & Technology (SUST),
Sylhet-3114

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