

71ST TRAINING PROGRAMME OF NITUB



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

27 October – 01 November 2018

Organized by

Network of **I**nstrument **T**echnical personnel and **U**ser
scientists of **B**angladesh (**NITUB**)

&

Hajee Mohammad Danesh Science and
Technology University (HSTU)

Venue

Hajee Mohammad Danesh Science and
Technology University (HSTU), Dinajpur-5200, Bangladesh

Programme Committee

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Planning, Development and Works
HSTU, Dinajpur

Md. Nazrul Islam Member
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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. and common laboratory equipment. NITUB conducts also training programmes on common laboratory equipment for technical personnel, teachers and 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 one thousand scientists and technical personnel of Bangladesh through its training programmes and repaired more than one thousand six hundred 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 Department of Chemistry, University of Chittagong, October 2017. NITUB used to conduct almost every year one training programme on common laboratory equipment.

The 71st training programme of NITUB will be held at the Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur-5200, 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 27 October – 01 November 2018.

Training Programme

The 71st training programme of NITUB will consist of theoretical lecture and also intensive practical sessions (a tentative programme enclosed) on operation, maintenance and trouble shooting of common laboratory equipments like Spectrophotometers, Balance, Oven, Microscope, Conduct meter, 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 can apply to participate in the training programme. A maximum of **20 (Twenty)** participants will be selected from among the applications. Interested regional participants may also apply.

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 71st training programme on the use, maintenance and trouble-shooting of common laboratory equipment should reach the **General Secretary of NITUB** on or **before 15 October 2018** 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 Campus Corporate, Dhaka Branch, Account No. 4405734255099). Training fee will include registration, training materials, lunch and tea.

Selected participants will be informed by **20 October 2018** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

27 October-2018 (Saturday)

- 09.00-10.00 - Registration
10.00-11.00 - Inauguration
11.00-11.30 - Tea
11.30-13.00 - *Lecture 1: Laboratory Safety*
13.00-14.00 - Lunch
14.00-16.30 - 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
16.30-17.00 - Tea

28 October -2018 (Sunday)

- 10.00-11.00 - *Lecture 2: Fabrication of Commonly Used
Laboratory Equipment.*
11.00-11.30 - Tea
11.30-13.00 - Practical session - II
Group - I; Lab. - A
Group - II; Lab. - B
Group - III; Lab. - C
13.00-14.00 - Lunch
14.00-16.30 - Practical session -II (Continuation)
16.30-17.00 - Tea

29 October -2018 (Monday)

- 10.00-11.00 - *Lecture 3: Trouble-shooting, Methods,
Techniques and Procedures (Analogue and
Digital Equipment)*
11.00-11.30 - Tea
11.30-13.00 - Practical session – III
Group - I; Lab. - B
Group - II; Lab. - C
Group - III; Lab. - A

- 13.00-14.00 - Lunch
14.00-16.30 - Practical session -III (Continuation)
16.30-17.00 - Tea

30 October -2018 (Tuesday)

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

31 October -2018 (Wednesday)

- 10.00-11.00 - *Lecture 5: Basic Electronics for scientific
instruments.*
11.00-11.30 - Tea
11.30-13.00 - Practical session -V
Group - I; Lab. - C
Group - II; Lab. - A
Group - III; Lab. - B
13.00-14.00 - Lunch
14.00-16.30 - Practical session -V (Continuation)
16.30-17.00 - Tea

01 November -2018 (Thursday)

- 10.00-11.00 - *Lecture 6: Basic principles of common
laboratory equipment.*
11.00-11.30 - Tea
11.30 -13.00 - Practical session –VI
Group - I; Lab. - C
Group - II; Lab. - A
Group - III; Lab. - B
13.00-14.00 - Lunch
14.00-15.00 - Open Discussion
15.00-16.00 - Closing Ceremony & Certificate Distribution
16.00- - Tea



71st Training Programme of NITUB

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

27 October - 01 November 2018

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

POSTAGE
STAMP

Professor Dr. Altaf Hussain
General Secretary, NITUB