

87th TRAINING PROGRAMME OF NITUB



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

03 – 08 May 2025

Organized by

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

Venue

**Professor Muhammad Hossain Central Laboratory
Bangladesh Agricultural University,
Mymensingh-2202, Bangladesh**

Programme Committee

Professor Dr. Md. Amir Hossain Director Professor Muhammad Hossain Central Laboratory Bangladesh Agricultural University, Mymensingh-2202.	Convener
Professor Dr. Md. Mahmudul Alam Associate Director Professor Muhammad Hossain Central Laboratory Bangladesh Agricultural University, Mymensingh-2202.	Member
Engr. Aziz Ahmed Additional Chief Engineer Professor Muhammad Hossain Central Laboratory Bangladesh Agricultural University, Mymensingh-2202.	Member
Md. Abul Kalam Chowdhury Instrument Engineer, NITUB	Member Secretary

All correspondence should be addressed to

Professor Dr. Altaf Hussain
General Secretary, NITUB
Email: nitub@bangla.net
Tel: +880 2223 364136

NITUB Office:
300, Elephant Road, Alishan Complex (2nd Floor, Room No. 309)
Dhaka-1205, Bangladesh
Tel: +88 02223 364136, Cell: +88 01711-984234, +88 01995 190065
Email: nitub@bangla.net, md.akchowdhury@gmail.com,
tanvir.uddin@yahoo.com, Web: www.nitub.org

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 so that scientific equipment of Bangladesh be used and maintained properly.

NITUB is regularly conducting training programme on the use and maintenance of specific group of instruments such as HPLC, GC, AAS, NMR, UV-VIS, X-ray and LC-MS/MS etc. Other than these specific groups of instruments training programmes, NITUB also organizes training programmes on Common Laboratory Equipment and on Common Medical Instruments. So far, NITUB has conducted 86 training programmes in which 1310 young faculties, scientists, postgraduate students, technical personnel and medical personnel have participated. Another very popular programme of NITUB, Instrument Repair Programme, which runs throughout the year and through this programme NITUB repairs non-functioning scientific instruments of Bangladesh. NITUB has already repaired 2168 scientific equipment of different educational and research organizations of Bangladesh. In a few programmes of NITUB, there were also participation of regional and international scientists and technical personnel.

The last training programme on the use, maintenance and trouble-shooting of common laboratory equipment was held at the Bangladesh Institute of Nuclear Agriculture (BINA), Mymensingh-2202, on 15 – 20 October 2022. The 87th training programme of NITUB will be held at the **Bangladesh Agricultural University (BAU), Mymensingh-2202 on 03 – 08 May 2025**, on the use, maintenance and trouble-shooting of common laboratory equipment for young faculties, user scientists, technical personnel and post-graduate students of Bangladesh.

Workshop Programme

The 87th 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, Conductometer, pH-meter, Colorimeter, Vacuum pump etc. **University professors, technical experts and instrument engineers will conduct the training programme.**

Participants

Persons working in research organizations, universities and university colleges can apply to participate in the training programme. A maximum of **30 (Thirty)** participants will be selected from among the applications. Interested international, 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 87th training programme on the use, maintenance and trouble-shooting of common laboratory equipment should reach the **General Secretary of NITUB** on or **before 28 April 2025** in the form given in the circular. Application must be sent through proper channel along with a training **fee of Tk. 7,000/- (Taka seven 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 PLC, Dhaka University Corporate Branch, Dhaka-1000**). The training fee will include registration, instruction materials, lunch, and tea.

Selected participants will be informed by **01 May 2025** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

03 May-2025 (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

04 May-2025 (Sunday)

- 1000-1100 - *Lecture 2: Basic Principles and Fabrication of 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

05 May-2025 (Monday)

- 1000-1100 - *Lecture 3: Use, Maintenance and Trouble-shooting of Commonly Used Laboratory 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

06 May-2025 (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

07 May-2025 (Wednesday)

- 1000-1100 - *Lecture 5: Fabrication of a few low-cost equipment.*
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

08 May-2025 (Thursday)

- 1000-1100 - *Lecture 6: A short power point presentation (Group- wise) from each Group of participants.*

- 1100-1130 - Tea
1130 -1300 - Practical session –VI
Group - I; Lab. - C
Group - II; Lab. - A
Group - III; Lab. - B

- 1300-1430 - Lunch
1430-1500 - Open Discussion
1500-1600 - Closing Ceremony & Certificate Distribution
1600 - Tea



87th Training Programme of NITUB
On the use, maintenance and trouble-shooting of
Common laboratory Equipment
03 – 08 May 2025

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