

65TH TRAINING PROGRAMME OF NITUB



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

23-28 September 2017

Organized by

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

&

Department of Chemistry, University of Chittagong

Venue

Department of Chemistry University of Chittagong

Local Programme Committee

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| Professor Dr. Monir Uddin Chairman Department of Chemistry University of Chittagong | Convener |
| Professor Dr. Mohammad Nasir Uddin Department of Chemistry University of Chittagong | Member |
| Professor Dr. Mohammad Ismail Hossain Department of Chemistry University of Chittagong | Member |
| Mr. Md. Ashraf Uddin Associate Professor, Department of Chemistry University of Chittagong | Member |
| Md. Abul Kalam Chowdhury Instrument Engineer, NITUB | Member |

All correspondence should be addressed to

Professor Dr. Altaf Hussain

General Secretary, NITUB

Cell: 01552421909, email: altaf@du.ac.bd

or

Professor Dr. Monir Uddin

Convener, Local Programme Committee

65th training programme of NITUB

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Chairman

Department of Chemistry, University of Chittagong

Cell: 01712-513616, email: umonir18@yahoo.com

NITUB Office: 300, Elephant Road, Alishan Complex (2nd Floor, Room No. 309) Dhaka-1205, Bangladesh.

Tel: +880-2-9673136, Cell: 01711984234

Email: nitub@bangla.net, md.akchowdhury@gmail.com

Web: www.nitub.org

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 916 scientists and technical personnel of Bangladesh through its training programmes and repaired more than 1552 scientific equipment of different educational and research organizations of Bangladesh.

NITUB has so far been working with scientists and technical personnel of universities, research organizations, and private chemical and pharmaceutical industries. Recently NITUB has undertaken a programme for providing training for university college science teachers on the use, maintenance and trouble-shooting of common laboratory equipment. The last training programme for college teachers was held in May 2016 at Government Titumir College, Dhaka.

NITUB is, going to organize its 65th training programme on the use, maintenance and trouble-shooting of common laboratory equipment for technical personnel and user scientists of Bangladesh at the University of Chittagong, Chittagong-4331 on 23-28 September 2017.

Workshop Programme

There will be theoretical lecture and also intensive practical training (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 for participation in the training programme. A maximum of 20 (Twenty) participants will be selected from among the applications of scientists and technical personnel of educational and research institutes of Bangladesh.

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 65th training programme on the use, maintenance and trouble-shooting of common laboratory equipment for technical personnel and user scientists of Bangladesh should reach the **General Secretary of NITUB** on or **before 14 September 2017** 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, training materials, lunch and tea.

Selected participants will be informed by **18 September 2017** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

23 September-2017 (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

24 September-2017 (Sunday)

- 1000-1100 - *Lecture 2: 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

25 September-2017 (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

26 September-2017 (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

27 September-2017 (Wednesday)

- 1000-1100 - *Lecture 5: Basic Electronics for scientific instruments.*
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

28 September-2017 (Thursday)

- 1000-1100 - *Lecture 6: Basic principles of common 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

**65th TRAINING PROGRAMME ON THE USE AND
MAINTENANCE AND TROUBLE-SHOOTING OF COMMON
LABORATORY EQUIPMENT**

23 - 28 September 2017

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 :