

60TH TRAINING PROGRAMME OF NITUB



**A WORKSHOP ON THE USE, MAINTENANCE
AND TROUBLE-SHOOTING OF COMMON
LABORATORY EQUIPMENT FOR COLLEGE
TEACHERS**

07-12 May 2016

Organized by

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

Venue

Government Titumir College, Dhaka

Local Programme Committee

Professor Muhammad Enamul Hoque Khan Vice-Principal Government Titumir College, Dhaka	Convener
Mr. Md. Abdul Mannan Associate Professor Department of Chemistry Government Titumir College, Dhaka	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 is also conducting Instrument Repair Programme through which non-functioning scientific instruments are being repaired. NITUB has already trained more than 827 scientists and technical personnel of Bangladesh through its training programmes and repaired more than 1450 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, private chemical and pharmaceutical industries. Recently NITUB has undertaken a programme for providing training for university college teachers on the use, maintenance and trouble-shooting of common laboratory equipment. The last training programme for college teachers was held in May 2012 at Government B. M. College, Barisal.

NITUB is, going to organize its 60th training programme on the use, maintenance and trouble-shooting of common laboratory equipment for college teachers of the Dhaka Division at Government Titumir College on 07-12 May 2016.

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

Science teachers of university colleges of Dhaka division may apply for participation in the training programme. A maximum of 20 (Twenty) participants will be accommodate in the 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 60th training programme on the use, maintenance and trouble-shooting of common laboratory equipment for university college teachers should reach the Convener of the training programme, Professor Muhammad Enamul Hoque Khan Vice-Principal, Government Titumir College, Dhaka or General Secretary of NITUB on or **before 30 April 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, training materials, lunch and tea.

Selected participants will be informed by **03 May 2016** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

07 May 2016 (Saturday)

1000-1100 - Registration
1100-1200 - Inauguration
1200-1230 - Tea
1230-1330 - *Lecture 1*: Laboratory Safety
1330-1430 - Lunch
1430-1700 - Practical session -I

Group – I, Lab.-A (Chemistry Department)
Conductivity meter, Magnetic Stirrer, Shaker, Water bath,
Distillation plant, Electric Balance etc

Group – II, Lab. - B (Physics Department)
Oscilloscope, Signal Generator, Aquatic Transducer, Logic
gate, Trainer board (Digital/Analog), GM Counter etc.

Group – III, Lab. - C (Botany, Zoology and Soil Science Departments)
pH-Meter, Microscope, Autoclave etc.
Microscope, Microtome, Incubator, Oven etc

Group – IV, Lab. - D (Mathematics and Statistics
Departments) for Computer lab.

1700-1730 - Tea

08 May 2016 (Sunday)

1000-1100 - *Lecture 2*: Maintenance and Trouble-shooting of Computer-I
1100-1130 - Tea
1130-1230 - *Lecture 3*: Maintenance and Trouble-shooting of Common
Laboratory Equipment.

1230-1330 - Practical session - II

Group - I; Lab. - B

Group - II; Lab. - C

Group - III; Lab. - D

Group - IV; Lab. - A

1330-1430 - Lunch

1430-1700 - Practical session -II (Continuation)

1700-1730 - Tea

09 May 2016 (Monday)

1000-1100 - *Lecture 4*: Fabrication of Commonly used Laboratory
Equipment.

1100-1130 - Tea

1130-1230 - *Lecture 5*: Maintenance and Trouble-shooting of Computer-II

1230-1330 -Practical session - III

Group - I; Lab. - C

Group - II; Lab. - D

Group - III; Lab. - A

Group - IV; Lab. - B

1330-1430 - Lunch

1430-1700 - Practical session -III (Continuation)

1700-1730 - Tea

10 May 2016 (Tuesday)

1000-1100 - *Lecture 6*: Basic principles of common laboratory equipment.

1100-1130 - Tea

1130-1230 - *Lecture 7* : Trouble-shooting, Methods, Techniques and
Procedures (Analogue and Digital Equipment)

1230-1330 - Practical session - IV

Group - I; Lab. - D

Group - II; Lab. - A

Group - III; Lab. - B

Group - IV; Lab. - C

1330-1430 - Lunch

1430-1700 - Practical session -IV (Continuation)

1700-1730 - Tea

11 May 2016 (Wednesday)

1000-1100 - Practical session –V; (As per participant’s choice).

1100-1130 - Tea

1130-1330 - Practical session -V (Continuation)

1330-1430 - Lunch

1430-1700 - Practical session -V (Continuation)

1700-1730 - Tea

12 May 2016 (Thursday)

1000-1100 - Practical session – VI; Individual problem solving session

1100-1130 - Tea

1130 -1300 - Practical session –VI (Continuation)

1300-1400 - Lunch

1400-1500 - Open Discussion

1500-1600 - Closing Ceremony & Certificate Distribution

1600 - Tea