

58TH TRAINING PROGRAMME OF NITUB



TRAINING PROGRAMME ON THE USE, MAINTENANCE AND TROUBLE-SHOOTING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

10 – 15 October 2015

Organized by

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

Venue

Centre for Advanced Research in Sciences (CARS)
University of Dhaka, Dhaka-1000.

Programme Committee

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| Professor Nilufar Nahar Department of Chemistry University of Dhaka | Convener |
| Dr. Gazi Nurun Nahar Sultana Chief Scientist Centre for Advanced Research in Sciences University of Dhaka | Member |
| Dr. Md. Zakir Sultan Principal Scientist Centre for Advanced Research in Sciences University of Dhaka | Member |
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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 to use, maintain and repair of scientific equipment properly.

NITUB is regularly conducting training programme on the use and maintenance of specific groups of instruments such as HPLC, GC, AAS, UV-VIS, IR and X-ray etc. So far, NITUB has conducted 57 training programmes. NITUB is also conducting Instrument Repair Programme through which non-functioning scientific instruments are being repaired.

Since its inception, NITUB already has organized few training programmes on the use and maintenance of High Performance Liquid Chromatography (HPLC). NITUB was requested by user scientists and technical personnel to organize another training programme on HPLC. The EC of NITUB, therefore, decided to organize the 58th training programme on HPLC.

Training Programme

The HPLC training programme will include theoretical lectures and practical training sessions on the use, maintenance and trouble-shooting of HPLC. A tentative time-table for the training programme is given, however the final programme will be sent later to the selected

participants. The training programme will be conducted by university professors, senior scientists and NITUB technical experts.

Participants

A maximum of 12 (Twelve) participants will be selected from among the applications of scientists and technical personnel of public and private educational institutes, pharmaceuticals and research organizations. Applicants having HPLC facilities at his/her working place will get preference to participate in the training programme.

Registration

Applications to participate in the 58th training programme on HPLC should reach the General Secretary of NITUB on or **before 30 September 2015** in the proforma given in the circular. Application must be sent through proper channel **along with a training fee of Tk. 15,000/- (taka fifteen thousand) in the form of a bank draft or pay order in the name of “NITUB”**. Training fee will include registration, teaching materials, lunch and tea.

Selected participants will be informed by **04 October 2015** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

10 October 2015 (Saturday)

0900-1000 - Registration of the Participants
1000-1100 - Inauguration of the HPLC Training Programme
1100-1130 - Tea
1130-1230 - **Lecture 1: Principles of Chromatography**
1230-1300 - **Practical Session 1:** Demonstration of HPLC
1300-1400 - Lunch
1400-1630 - **Practical Session 1:** Continuation
1630-1700 - Tea

11 October 2015 (Sunday)

0900-1000- **Lecture 2: Basic instrumentation of HPLC and its application**
1000-1030 - Tea
1030-1300 - **Practical Session 2**
Group A: Analysis of Thiamine & Riboflavin
Group B: Analysis of anti diabetic drugs
Group C: Analysis of caffeine from soft drink
1300-1400 - Lunch
1400-1630 - **Practical Session 2 :** Continuation
1630-1700 - Tea

12 October 2015 (Monday)

0900-1000 - **Lecture 3: Trouble-shooting and maintenance of HPLC**
1000-1030 - Tea
1030-1300 - **Practical Session 3**
Group B: Analysis of Thiamine & Riboflavin
Group C: Analysis of anti diabetic drugs
Group A: Analysis of caffeine from soft drink
1300-1400 - Lunch

1400-1630 - **Practical Session 3** Continuation
1630-1700 - Tea

13 October 2015 (Tuesday)

0900-1000 - **Lecture 4: Analysis of Pharmaceutical drugs by HPLC**
1000-1030 - Tea
1030-1300 - **Practical Session 4**
Group C: Analysis of Thiamine & Riboflavin
Group A: Analysis of anti diabetic drugs
Group B: Analysis of caffeine from soft drink
1300-1400 - Lunch
1400-1630 - **Practical Session 4:** Continuation
1630-1700 - Tea

14 October 2015 (Wednesday)

0900-1000 - **Lecture 5: Use of HPLC in Food Science**
1000-1030 - Tea
1030-1300 - **Practical Session 5**
Group A, B & C: Analysis of some herbal drug and determination of adulteration in the drug.
1300-1400 - Lunch
1400-1630 - **Practical Session 5:** Continuation
1630-1700 - Tea

15 October 2015 (Thursday)

0900-1000 - **Lecture 5: Analysis of natural products by HPLC**
1000-1030 - Tea
1030-1300 - **Practical Session 6**
individual problem solving session
1300-1400 - Lunch
1400-1530 - **Practical Session 6:** Continuation
1530-1630 - Closing ceremony & distribution of certificates