

85th TRAINING PROGRAMME OF NITUB



TRAINING PROGRAMME ON THE USE, MAINTENANCE AND TROUBLE-SHOOTING OF LIQUID CHROMATOGRAPHY- MASS SPECTROMETRY (LC-MS/MS)

25 – 30 May 2024

Organized by

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

Venue

**Institute of Bioequivalence Studies and Pharmaceutical Sciences
(IBSPS), BCSIR, Dr. Qudrat-I-Khuda Road, Dhanmondi,
Dhaka-1205**

Programme Committee

Dr. Altaf Hussain Former Professor Department of Chemistry, DU	Convener
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Mr. Satyajit Roy Rony Senior Scientific Officer IBSPS, BCSIR, Dhaka-1205	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, NMR, UV-VIS, IR and X-ray etc. So far, NITUB has conducted 84 training programmes. 1284 scientists and technical personnel have been participated in these training programmes of NITUB. Other than training programmes, NITUB is also conducting Instrument Repair Programme throughout the year by which non-functioning scientific instruments are being repaired. So far, NITUB has repaired 2098 scientific equipment of different educational and research organizations of Bangladesh. Time to time scientists and technical personnel from abroad do participate in NITUB activities.

Since its inception, NITUB has organized a few training programmes on the use and maintenance of Chromatography such GC, HPLC. NITUB got requests from faculties, scientists and graduate students to organize a training programme on LC-MS/MS in 2024. The EC of NITUB, decided to organize the 85th training programme of on the use, maintenance and trouble-shooting of Liquid Chromatography - Mass Spectrometry (LC-MS/MS).

Training Programme

The 85th training programme of NITUB will include theoretical lectures and practical sessions on the use, maintenance and trouble-shooting of LC-MS/MS. A tentative time-table for the training programme is given in the brochure however, the final programme will be sent later to the selected participants only. The training programme will be conducted by university professors, senior scientists and NITUB technical experts.

Participants

A maximum of 15 (Fifteen) 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 LC-MS/MS facilities at his/her working place will get preference to participate in the training programme.

Registration

Applications to participate in the 85th training programme on LC-MS/MS should reach the General Secretary of NITUB on or **before 19 May 2024** in the form 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, pay order or online payment in the NITUB account (**Name of the account, NITUB, Account No. 4405734255099, Sonali Bank Limited, Dhaka University Corporate Branch, Dhaka-1000**). The training fee will include registration, instruction materials, lunch, and tea.

Selected participants will be informed by **21 May 2024** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

25 May 2024 (Saturday)

0900-1000 - Registration of the Participants
1000-1100 - Inauguration of the 85th Training Programme
1100-1130 - Tea
1130-1230 - **Lecture 1: Principles of LC-MS/MS**
1230-1300 - **Practical Session 1:** Demonstration of LC-MS/MS
1300-1400 - Lunch
1400-1630 - **Practical Session 1:** Continuation
1630-1700 - Tea

26 May 2024 (Sunday)

0900-1000- **Lecture 2: Basic instrumentation of LC-MS/MS and its application**
1000-1030 - Tea
1030-1300 - **Practical Session 2**
Group A: Analysis of Pantoprazole.
Group B: Analysis of Ranolazine.
Group C: Analysis of Caffeine.
1300-1400 - Lunch
1400-1630 - **Practical Session 2:** Continuation
1630-1700 - Tea

27 May 2024 (Monday)

0900-1000 - **Lecture 3: Trouble-shooting and maintenance of LC-MS/MS**
1000-1030 - Tea
1030-1300 - **Practical Session 3**
Group B: Analysis of Pantoprazole.
Group C: Analysis of Ranolazine.
Group A: Analysis of caffeine.
1300-1400 - Lunch
1400-1630 - **Practical Session 3** Continuation
1630-1700 - Tea

28 May 2024 (Tuesday)

0900-1000 - **Lecture 4: Bio Analysis of pharmaceuticals by LC-MS/MS**
1000-1030 - Tea
1030-1300 - **Practical Session 4**
Group C: Analysis of Pantoprazole.
Group A: Analysis of Ranolazine.
Group B: Analysis of caffeine.
1300-1400 - Lunch
1400-1630 - **Practical Session 4:** Continuation
1630-1700 - Tea

29 May 2024 (Wednesday)

0900-1000 - **Lecture 5: Application of LC-MS/MS in Food Science**
1000-1030 - Tea
1030-1130 - **Lecture 6: Application of LC-MS/MS in Forensic Analysis**
1130-1300 - **Practical Session 5**
Group A, B & C: Analysis of some herbal drug and determination of adulteration in the drug.
1300-1430 - Lunch
1430-1630 - **Practical Session 5:** Continuation
1630-1700 - Tea

30 May 2024 (Thursday)

0900-1000 - **Lecture 7: Analysis of natural products by LC-MS/MS**
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



85th Training Programme of NITUB
Training Programme on the use, maintenance, trouble-shooting of
Liquid Chromatography Mass Spectrometry (LC-MS/MS)

25 – 30 May 2024

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: