

84th TRAINING PROGRAMME OF NITUB



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

28 October – 02 November 2023

Organized by

**Network of Instrument Technical personnel and User scientists of
Bangladesh (NITUB)
&
Bangladesh Council of Scientific and Industrial Research (BCSIR)**

Venue

**Institute of National Analytical Research and Service (INARS),
BCSIR, Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205**

Programme Committee

Dr. Nilufar Nahar Former Professor and Chairperson Department of Chemistry, DU	Convener
Dr. Md. Ahedul Akbor Research Coordinator BCSIR, Dhaka-1205	Member
Mr. Sarker Kamruzzaman Director (Add. Charge) INARS, 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, UV-VIS, IR and X-ray etc. So far, NITUB has conducted 83 training programmes. NITUB has already trained more than 1269 scientists and technical personnel through its training programmes. 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 2060 scientific equipment of different educational and research organizations of Bangladesh

Since its inception, NITUB has already organized 11 (eleven) training programmes on the use and maintenance of High Performance Liquid Chromatography (HPLC). NITUB has been requested by user scientists and technical personnel to organize another training programme on HPLC in 2023. The EC of NITUB, therefore, decided to organize the 84th 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 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 HPLC facilities at his/her working place will get preference to participate in the training programme.

Registration

Applications to participate in the 84th training programme on HPLC should reach the General Secretary of NITUB on or **before 23 October 2023** in the form given in the circular. Application must be sent through proper channel along with a training **fee of Tk. 10,000/- (Taka ten 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 **25 October 2023** and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

28 October 2023 (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

29 October 2023 (Sunday)

0900-1000- **Lecture 2: Basic instrumentation of HPLC and its application**
1000-1030 - Tea
1030-1300 - **Practical Session 2**
Group A: Analysis of Nitrofurantoin antibiotic in animal feed
Group B: Analysis of Metformin
Group C: Analysis of caffeine from soft drink
1300-1400 - Lunch
1400-1630 - **Practical Session 2 :** Continuation
1630-1700 - Tea

30 October 2023 (Monday)

0900-1000 - **Lecture 3: Trouble-shooting and maintenance of HPLC**
1000-1030 - Tea
1030-1300 - **Practical Session 3**
Group B: Analysis of Nitrofurantoin antibiotic in animal feed
Group C: Analysis of Metformin
Group A: Analysis of caffeine from soft drink
1300-1400 - Lunch
1400-1630 - **Practical Session 3** Continuation
1630-1700 - Tea

31 October 2023 (Tuesday)

0900-1000 - **Lecture 4: Analysis of Pharmaceutical drugs by HPLC**
1000-1030 - Tea
1030-1300 - **Practical Session 4**
Group C: Analysis of Nitrofurantoin antibiotic in animal feed
Group A: Analysis of Metformin
Group B: Analysis of caffeine from soft drink
1300-1400 - Lunch
1400-1630 - **Practical Session 4:** Continuation
1630-1700 - Tea

01 November 2023 (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.
1300-1430 - Lunch
1430-1630 - **Practical Session 5:** Continuation
1630-1700 - Tea

02 November 2023 (Thursday)

0900-1000 - **Lecture 6: 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



84th Training Programme of NITUB
Training Programme on the use, maintenance, trouble-shooting of
High Performance Liquid Chromatography (HPLC)

28 October – 02 November 2023

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: