72ND TRAINING PROGRAMME OF NITUB





TRAINING PROGRAMME ON THE USE, MAINTENANCE AND TROUBLE-SHOOTING OF GAS CHROMATOGRAPHY (GC)

24-29 January 2019

Organized by

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

Venue

Department of Chemistry & Centre for Advanced Research in Sciences (CARS), University of Dhaka

Programme Committee

Professor Dr. Nilufar Nahar Professor (Retired) Department of Chemistry,

University of Dhaka

Professor Dr. Mohammad Shoeb

Department of Chemistry, University of Dhaka

Dr. Md. Zakir Sultan Principal Scientists, CARS, University of Dhaka

Dr. Abida Sultana Member Assistant Professor, Department of Chemistry,

Convener

Member

Member

University of Dhaka

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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 to improve the capability of scientists and technical personnel of Bangladesh to use, maintain and repair scientific equipment.

NITUB is regularly conducting training programmes on the use and maintenance of specific groups of instruments such as GC, HPLC, AAS, UV-VIS, IR and X-ray etc. So far, NITUB has conducted 71 training programmes. NITUB is also conducting Instrument Repair Programme throughout the year through which non-functioning scientific instruments are being repaired.

Since its inception, NITUB already has organized eight training programmes on the use and maintenance of Gas Chromatography (GC) and the last one was held in 2016. User scientists were requesting NITUB to organize another training programme on GC. The Executive Committee of NITUB, therefore, decided to organize its 72nd training programme on GC.

Training Programme

The GC training programme will include theoretical lectures and practical sessions on the use, maintenance and trouble-shooting of GC. A tentative time-table for the training programme is given, however the final programme will be sent to the selected participants later. 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 and research organizations. Applicants having GC facilities at their institutes will get preference to participate in the training programme.

Registration

Applications to participate in the 72nd training programme on GC should reach the General Secretary of NITUB on or before 20 January 2019 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 or pay order in the name of NITUB (Sonali Bank Limited, Dhaka University Branch, Account No. 4405734255099). Training fee will include registration, teaching materials, lunch and tea.

Selected participants will be informed by 22 January 2019 and the training fee of the applicants who could not be accommodated will be refunded.

Tentative Programme

Tentative F	Programme				
24 January 2019 (Thursday)					
09.00-10.00 -	Registration				
10.00-11.00 -	Inauguration				
11.00-1130 -	Tea				
11.30-13.00 -	Lecture 1: Basic principles of gas				
	chromatography				
	Dr.NilufarNahar, Professor (Retired),				
	Department of Chemistry, DU				
13.00-14.00 -	Lunch & Prayer				
14.00-16.30 -	Practical Sessions 1: Instrumentation &				
	Installation of GC-TBC				
16.30-17.00 -	Tea & Discussion				
25 January 2019 (Friday)					
09.00-10.00 -	Lecture 2: Introduction to gas chromatograph				
	Dr.NilufarNahar, Professor (Retired),				
a de	Department of Chemistry, DU				
10.00-10.30 -	Tea				
10.30-13.00 -					
	Group-A: Organochlorine pesticide residue				
	analysis in fish samples by GC-ECD				
	Group-B: Pesticide residue analysis in				
	vegetable/water samples by GC-ECD				
12.00.14.00	Group-C: Fatty acid analysis of by GC-FID				
13.00-14.00 -	Lunch & Prayer				
14.00-16.30 -	Practical Session: 2 continuations				
16.30-17.00 -	Tea & Discussion				
26 January 2019 (Saturday)					
09.00-10.00 -	Practical Session: 3				
	Group-B: Organochlorine pesticide residue				
5 K	analysis in fish samples by GC-ECD				
	Group-C: Pesticide residue analysis in				
	vegetable/water samples by GC-ECD				
	Group-A: Analysis of fatty acid by GC-FID				
10.00-10.30 -	Tea				

10.30-13.00 - Practical Session: 3 continuations 13.00-14.00 - Lunch & Prayer

14.00-16.30 - Practical Session: 3 continuations 16.30-17.00 - Tea & Discussion

10.30-11.30	-	Lecture 4: Method development and validation
		for analysis of organic pollutants
		Dr. Mohammad Shoeb, Professor, Department
		of Chemistry, DU
11.30-13.00	-	
		Group-C: Organochlorine pesticide residue
		analysis in fish samples by GC-ECD
x 5		Group-A: Pesticide residue analysis in
		vegetable/water samples by GC-ECD
		Group-B: Analysis of fatty acid by GC-FID
13.00-14.00		
		Practical Sessions: 4 continuations
16.30-17.00	-	Tea & Discussion
28 January 2	01	9 (Monday)
		Lecture 5: Analysis of fatty acid in different
		samples
		Dr. Md. Zakir Sultan, Principal Scientist,
		CARS, DU
10.00-10.30	-	
10.30-13.00	-	Practical Sessions: 5
		Group-A/B/C: Self exercise for analysis of
		any experiment by GC-ECD/FID
13.00-14.00	-	Lunch & Prayer
14.00-16.30	-	Practical Sessions: 5 continuations
16.30-17.00	-	Tea & Discussion
29 January 2	01	9 (Tuesday)
		Lecture 6: Maintenance and Trouble Shooting
03.00 10.00		of GC
		Dr.Mohammad Shoeb, Professor, Department
		of Chemistry, DU
10.00-10.30	_	
11.00-11.30	-	Discussion about use of different detectors for
		different matrices
11.30-13.00	-	Individual problem solving session
13.00-14.00	_	
14.00-15.00	_	Open discussion
15.00-16.00	-	Closing ceremony & certificate distribution
16.00-	-	Tea

09.00 -10.00 - Lecture 3: Analysis of Sugar by GC
Dr. Tofial Ahmed, Professor, Department of
Chemistry, DU

27 January 2019 (Sunday)

10.00-10.30 - Tea



72nd Training Programme of NITUB

ON THE USE, MAINTENANCE AND TROUBLE-SHOOTING OF GAS CHROMATOGRAPHY (GC)

24-29 January 2019

APPLICATION FORM

Name of the applicant (Block Letter)		
Date of birth		
Academic qualification		
Designation		
Institute/Organization with address	1	
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	

Professor Dr. Altaf Hussain General Secretary, NITUB