

**Network of Instrument Technical personnel and User scientist of Bangladesh (NITUB)  
Full Activity Report-2025**

Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB) is a registered [registration number: **S-7887(1077)08**] voluntary, non-profitable, non-political learned society dedicated to scientific education and research. NITUB is functioning since July 1994. The following are the activities of NITUB of 2024. Please note that NITUB conducts its training programmes and other activities laboratory based. NITUB's stakeholders expect hands-on training programs and these are planned so that about 70% of the total time of a training based on practical sessions.

**Training programmes/ Workshops:**

One of the main objectives of NITUB is to conduct training programs on specific group of instruments to update the knowledge of user scientists and technical personnel on instrumentation so that scientific equipment of different institutions function properly and scientific research could be carried out effectively.

In the year 2025, NITUB organized two training programs. 87<sup>th</sup> training program on the use, maintenance and trouble-shooting of “Common Laboratory Equipment” which was held on 03 – 08 May 2025, at the Professor Muhammad Hossain Central Laboratory, Bangladesh agricultural University (BAU), Mymensingh-2202. Eighteen participants (18) faculties, postgraduate students, scientists and technical personnel of different public and private universities and research organizations took part in program. A detailed schedule is given in the Enclosure -II.

The 88<sup>th</sup> training program was on the use, maintenance and trouble-shooting of “Gas Chromatography-Mass spectrometry (GC-MS/MS)”, held on 11 – 16 October 2025 at the Bioequivalence Building, BCSIR, Dhanmondi, Dhaka-1205. Twenty (20) participants from various universities and research organizations participated in the training program. Detailed about the 88<sup>th</sup> training program is given in the Enclosure -III.

**Seminar/Lecture on recent advancement on instrumental techniques:**

In 2025, NITUB decided to organize a lecture series on recent advancement in instrumental techniques. The first lecture of series was on “Recent Advancements in Instrumental Techniques for Monitoring Environmental Air Quality”. The lecture was delivered by Professor Abdus Salam, Dean, Faculty of Science, University of Dhaka, on 24 January 2025. A total of 36 participants attended the lecture. The participants list is given Enclosure IV

The second lecture of the series, titled “LC–Tandem Mass Spectrometry: Applications and Problem Solving,” was delivered by Dr. (Mrs.) Tamanna Rob, Senior Software Verification Lead, SCIEX, Canada, on 15 November 2025. A total of 48 participants attended this lecture session. The participants list is given Enclosure V

**Instrument Repair Programme:**

This programme of NITUB is conducted by the instrument engineers and technical experts of NITUB. They go personally to the institute from where the service was asked for. Through this programme of NITUB repaired 101 non-functioning scientific instruments of educational and research institutions in Bangladesh in the year 2025. The reported Book value of repaired instruments is about BD Taka **36,720,000.00 = U.S. \$ 299,828.53\*** and NITUB spent approximately BD Taka **76515 = U.S. \$ 624.76** to repair these instruments. A detailed list of repaired instruments is enclosed in Enclosure-VI.

-----  
\*(Exchange rate on 31.12.2025; 1USD = 122.47 BD Taka)

**Other activities :**

**Executive Committee (EC) meetings of NITUB:**

All activities of NITUB have to be approved in the Executive Committee (EC) meetings. In 2025, the Executive Committee of NITUB met two times (123<sup>th</sup> EC meeting & One Emergency EC NITUB ). All the activities of NITUB of 2025 were designed, approved and also executed as per decisions taken in the EC meetings.

**The Annual General Meeting of NITUB AGM 2024:**

The Annual General Meeting of NITUB of the year 2024 (**AGM-2024**) was held in hybrid mode, on Friday, **24 January 2025 at 4:00 p.m.**, at Room No. **200**, 1<sup>st</sup> floor MHK Biggyan Bhaban, Department of Chemistry, University of Dhaka. Professor Mesbahuddin Ahmad, President of NITUB, presided the meeting. Professor Ahmad said that due to illness he could not join the meeting in person and therefore, had to join virtually. He welcomed all members of NITUB who joined the meeting in person and also virtually. Eighty nine (89) members were present in the AGM meeting. In the AGM-2024, activities, statement of accounts of NITUB of 2024, programs, and budget of NITUB of 2025 were approved.

**Membership:**

Four (4) scientists and technical personnel became members of NITUB in 2025. At present, NITUB has 292 members of which 11 are founding members, 281 are life members (including 6 foreign members). Young University faculties, college teachers, graduate students, scientists, and technical personnel take part in NITUB activities.

## Enclosure –I

SL	Name & Designation	Department	Institute
01	Ahmed Ullah	Lab Instructor, Food Technology and Nutrition Science	Nokhali Science and Technology University
02	Md. Rafranul Haque	Sr. Executive ,Product Development	ACI Limited
03	Alif Hossain	Scientific Officer (SO)	Bangladesh Institute of Nuclear Agriculture (BINA)
04	Shamim Akram	Scientific Officer (SO)	Bangladesh Institute of Nuclear Agriculture (BINA)

### Annual Report 2024:

NITUB submitted its 2024 Annual Report to ISP/IPICS on 28th February 2025.

### Publications:

NITUB used to post all its activities on its website ([www.nitub.org](http://www.nitub.org)). However, NITUB also publishes brochures, profiles, manuals etc. NITUB has published brochures for the four training programmes and handed over the published training materials to the participants of the programs 2025.

### New office of NITUB:

As NITUB gets reduced budget since 2023 due to the reduced contribution of SIDA to ISP budget. NITUB starts looking for an office in the beginning of the year 2025. It is rather difficult to get an office space for a learned society in Dhaka city. Fortunately, NITUB shifted its office from July 2025 in the same building, 300 Alisan Complex, Elephant Road, Dhaka, to a relatively smaller space (approximately 20% less space) . This initiative will save about 20% office rent.

### Acknowledgement:

NITUB gratefully acknowledges the financial support and cooperation of the International Science Programme / International Programme in the Chemical Sciences (ISP / IPICS), Uppsala University, Sweden. NITUB is also grateful for the logistic support and cooperation of Professor Muhammad Hossain Central Laboratory, Bangladesh agricultural University (BAU), Mymensingh-2202; and Bioequivalence Building, BCSIR, Dhanmondi, Dhaka-1205 , University of Dhaka, Dhaka-1000, who kindly provided all logistic supports to run the programs of NITUB of 2025.

87th Training Programme of NITUB  
On the Use, Maintenance and Trouble-Shooting of Common Laboratory Equipment  
03 – 08 May 2025

Venue: Professor Muhammad Hossain Central Laboratory, Bangladesh agricultural University (BAU),  
Mymensingh-2202

**REPORT**

The 87<sup>th</sup> Training Programme of NITUB on the use, maintenance and trouble-shooting of Common Laboratory Equipment was held at Professor Muhammad Hossain Central Laboratory, BAU, Mymensingh-2202 on 03 – 08 May 2025. A brochure on the programme was circulated to all public and private universities, colleges, research organizations and pharmaceutical companies of Bangladesh. Professor Dr. Md. Amir Hossain, Director, Professor Muhammad Hossain Central Laboratory, BAU, Mymensingh was the convener of the programme committee.

The inaugural session of the programme was held in the Central Library Auditorium of BAU on 03 May 2025 and was presided over by Professor Dr. Md. Amir Hossain, Director, Professor Muhammad Hossain Central Laboratory, BAU. Professor Dr. A K Fazlul Haque Bhuiyan, Honorable Vice Chancellor, BAU, kindly attended the session as the Chief Guest. The inauguration session was attended by the faculties and students of Bangladesh Agricultural University, Mymensingh, participants and resource persons. Engr. Aziz Ahmed, Additional Chief Engineer and member of the programme committee delivered welcome address, introduced participants and resource persons. He also narrated the detailed schedule of the programme in his address. Professor Dr. Nilufar Nahar, Treasurer, NITUB in her address briefly mentioned about the aims, objectives and activities of NITUB. She also thanked the Vice Chancellor of BAU for his kind permission and cooperation to allow NITUB to conduct the programme at BAU. Professor Dr. Md. Shahidul Haque, Student's Affairs Adviser, BAU attended the function as Special guest. Professor Dr. A K Fazlul Haque Bhuiyan in his address urged NITUB to arrange training programmes on regular basis so that faculties, students, scientists and technical personnel of Bangladesh can update their knowledge on instrumentation.

The Training Programme was attended by 18 participants who are faculty members, scientists and technical personnel (list enclosed). Theoretical lectures and practical sessions were conducted by university professors, senior scientists and technical experts of NITUB. A detailed day to day schedule of the programme is also enclosed in this report. A large numbers (50) of non-functioning scientific instruments of different departments of BAU was repaired and installed during the practical sessions of the training programme. In an open discussion, participants expressed their great satisfaction for the programme and requested NITUB to organize this type of training programme in a regular basis.

The closing ceremony was held at the open stage of Professor Muhammad Hossain Central Laboratory, BAU, Mymensingh on 08 May 2025. The function was presided over by Professor Dr. Md. Amir Hossain, Director, Professor Muhammad Hossain Central Laboratory, BAU. Professor Dr. A K Fazlul Haque Bhuiyan, Honorable

## Enclosure -II.

Vice Chancellor, BAU, kindly attended the session as the Chief Guest. In his speech, he highlighted the activities of NITUB and sought cooperation of all to conduct NITUB training programs effectively.

Professor Dr. Md. Shahidul Haque, Student's Affairs Adviser, BAU attended the function as Special guest. Professor Dr. Md. Amir Hossain, Director, Professor Muhammad Hossain Central Laboratory, BAU and convener of the programme also spoke in the closing session of the programme. Participants evaluated the programme as a very successful and helpful one. They thanked the resource persons and the organizers for such a well-organized training programme. Professor Dr. A K Fazlul Haque Bhuiyan, Honorable Vice Chancellor congratulated the participants for successfully completing the training and handed over certificates to them.

### Participants List:

1	Md. Rafiqul Islam Senior Field Process controller Laboratory. Karnaphuli Fertilizer Company Ltd. (KAFCO) Rangadia, Anowara, Chattagram-4000 Mobile: 01919-884300 Email: <a href="mailto:rafiqulislamkafco@gmail.com">rafiqulislamkafco@gmail.com</a>	2	Md. Alamgir Process controller Laboratory. Karnaphuli Fertilizer Company Ltd. (KAFCO) Rangadia, Anowara, Chattagram-4000 Mobile: 01716-103425 Email: <a href="mailto:mohd.alamgir@kafcobd.com">mohd.alamgir@kafcobd.com</a>
3	Asuwad Ahmed Senior Calibration Engineer Calibration Technology Pvt. Ltd. Banglamotor, Dhaka-1000 Mobile: 01763-428784 Email: <a href="mailto:asuwad2001@gmail.com">asuwad2001@gmail.com</a>	4	Md. Neamul Alam Senior Assistant Manager Plant Engineering Services Beximco Pharmaceuticals Ltd. Tongi-1711, Gazipur Mobile: 01773-004510 Email: <a href="mailto:nlm@bpl.net">nlm@bpl.net</a>
5	Md. Obiydul Islam Senior Technical Assitant Bangladesh Standards and Testing Institution (BSTI), Dhaka Mobile: 01922-424447 Email: <a href="mailto:obiyydul777@gmail.com">obiyydul777@gmail.com</a>	6	Abul Kalam Azad Glass Blower Bangladesh Standards and Testing Institution (BSTI), Dhaka Mobile: 01736-705904 Email: <a href="mailto:akazad461@gmail.com">akazad461@gmail.com</a>
7	Mohammad Ariful Hasan Senior Laboratory Technician Grade-1 Department of Anatomy & Histology BAU, Mymensingh-2202 Mobile: 01712-370422 Mail: <a href="mailto:polash.arifulhasan@gmail.com">polash.arifulhasan@gmail.com</a>	8	Mohammad Azizul haque SeniorField LaboratoryTechnician Grade-2 Department of Animal Nutrition BAU, Mymensingh-2202 Mobile: 01718347743

9	Md. Delwar Hossain Section In Charge, Q. C. Senior Laboratory Technician Grade-1 Department of Animal Science BAU, Mymensingh-2202	10	Md. Shamim Hossain Senior Laboratory Technician Grade-2 Department of Agricultural Chemistry BAU, Mymensingh-2202 Mobile: 01762-628214 Email: <a href="mailto:shamimhossain.amc@gmail.com">shamimhossain.amc@gmail.com</a>
11	Musammat Rokeya Begum Senior Laboratory Technician Grade-2 Department of Soil Science BAU, Mymensingh-2202 Mobile: 01616- 717758	12	Mohammad Nazmul Hassan Senior Laboratory Technician Grade-2 Department of Pathology BAU, Mymensingh-2202 Email: <a href="mailto:mdnazmul28113@gmail.com">mdnazmul28113@gmail.com</a>
13	Jannatul Ferdous Khukumone Senior Laboratory Technician Grade-2 Department of Genetics & Plant Breeding BAU, Mymensingh-2202 Mobile: 01772-005004 Email:	14	Mohammad Wasiul Haque Sub Assistant Engineer Department of Equipment Maintenance BAU, Mymensingh-2202 Mobile: 01711-024443 Email: <a href="mailto:Tanvirm12@gmail.com">Tanvirm12@gmail.com</a>
15	Md. Didarul Haque Senior Demonstrator Department of Crop Botany BAU, Mymensingh-2202 Mobile: 01712-373786 Email: <a href="mailto:didarulh79@gmail.com">didarulh79@gmail.com</a>	16	Shahrier Ahmed Student MS-Soil Science Bangladesh Agricultural University, Mymensingh-2202 Mobile: 01762-628201 Email: <a href="mailto:shahrier.ahmed777@gmail.com">shahrier.ahmed777@gmail.com</a>
17	Sohan Talukder Medical Technologist (Lab) National Food Safety Laboratory, Institute of Public Health, Mohakhali, Dhaka-1212 Mobile: 01521-116594 Email: <a href="mailto:sohantalukderbsc@gmail.com">sohantalukderbsc@gmail.com</a>	18	Md. Abdullah Al Noman Medical Technologist (Lab) National Food Safety Laboratory, Institute of Public Health, Mohakhali, Dhaka-1212 Mobile: 01911-422071 Email: <a href="mailto:bgdnoman@gmail.com">bgdnoman@gmail.com</a>

**Detail Programme:**

**03 May 2025 (Saturday)**

0930-1030 - Registration

1030-1100 - Tea

1100-1200 - **Lecture 1: Laboratory Safety**

*Professor Dr. Nilufar Nahar, Rtd. Faculty member, Dept. of Chemistry University of Dhaka.*

1200-1300 - Inauguration

1300-1400 - Lunch

1400-1600 - Practical session –I

**Group – I, Lab.-A**

Instruments Name: pH-Meter, Refract meter, Colorimeter, Conductivity Meter, Magnetic Stirrer, Flame Photometer, Electric Balance etc.

*Engr. Sakhawat Hossain, Chief Engineer, SARVWARE, 218, Elephant Road, Dhaka-1205 & Md. Tanvir Uddin, Instrument Engineer, NITUB.*

**Group – II, Lab. - B**

Instruments Name: Autoclave, Hot plate, Rotary evaporator, Shaker, Oven, Muffle furnace, Incubator, Water bath, Distillation plant etc.

*Md. Abul Kalam Chowdhury, Instrument Engineer, NITUB. Rtd. Radio Engineer Research & Receiving Centre, Bangladesh Betar, Dhaka. and*

*Md. Omar Fardous, Deputy Chief Instrument Engineer, Professor Muhammad Hossain Central Laboratory, Bangladesh Agriculture University (BAU), Mymensingh-2202.*

**Group – III, Lab. - C**

Instruments Name: Microscope, Polari meter, Centrifuge, Freeze Dryer, High Vacuum Pump, Micro Combustion Unit, Melting point apparatus etc.

*Dr. Md. Kamrul Islam Khan, Training Officer, Training & Publication Section, Bangladesh Institute of Nuclear Agriculture (BINA), Mymensingh-2202 &*

*Md. Habibur Rahman, Senior Demonstrator, Professor Muhammed Hussain Central Laboratory, Bangladesh Agricultural University (BAU), Mymensingh-2202.*

1600-1630 - Tea

**04 May 2025 (Sunday)**

0900-1000 - **Lecture 2: Basic principles of Common Laboratory Equipment.**

*Dr. Md. Munir Hossain, Professor, Department of Animal Breeding & Genetic, Bangladesh Agricultural University (BAU), Mymensingh-2202.*

1000-1030 - Tea

1030-1300 - Practical session - II

**Group - I; Lab. – A,                      Group - II; Lab. – B,                      Group - III; Lab.- C**

1300-1400 - Lunch

1400-1600 - Practical session -II (Continuation)

1600-1630 - Tea

### **05 May 2025 (Monday)**

0900-1000 - **Lecture 3: Troubleshooting & Repair Practice of Electrical & Electronic Equipment.**  
*Md. Abul Kalam Chowdhury, Instrument Engineer, NITUB. Rtd. Radio Engineer, Research & Receiving Centre, Bangladesh Betar, Dhaka.*

1000-1030 - Tea

1030-1300 - Practical session - III

**Group - I; Lab. – B ,                      Group - II; Lab. – C ,                      Group - III; Lab. – A**

1300-1400 - Lunch

1400-1600 - Practical session -III (Continuation)

1600-1630 - Tea

### **06 May 2025 (Tuesday)**

0900- 1000 - **Lecture 4: Basic Principles of Laboratory Equipment & Safety.**

*Engr. Aziz Ahmed, Additional Chief Engineer, Professor Muhammed Hussain Central Laboratory, Bangladesh Agricultural University (BAU), Mymensingh-2202*

1000-1030 - Tea

1030-1300 - Practical session –IV

**Group - I; Lab. – B,                      Group - II; Lab. – C,                      Group - III; Lab.- A**

1300-1400 - Lunch

1400-1600 - Practical session -IV (Continuation)

1600-1630 - Tea

### **07 May 2025 (Wednesday)**

0900-1000 - **Lecture 5: Use, Maintenance and Trouble-shooting of Commonly Used Laboratory Equipment.**

*Md. Tanvir Uddin, Instrument Engineer, NITUB.*

1000-1030- Tea

1030-1300 - Practical session –V

**Group - I; Lab. – C,                      Group - II; Lab. – A,                      Group - III; Lab.- B**

1300-1400 - Lunch

1400-1600 - Practical session -V (Continuation)

1600-1630 - Tea

### **08 May 2025 (Thursday)**

0900-1000 - **Lecture 6: Basic Electronics.**

*Engr. Muhammad Shamsul Haque, Chief Instructor & Head of the Dept. (Electronics), Mymensingh Polytechnic Institute, Mymensingh.*

1000-1030 - Tea

1030-1300 - Practical session –VI

**Group - I; Lab. – C,                      Group - II; Lab. – A,                      Group - III; Lab.- B**

1300-1400 - Lunch

1400-1500 - Practical session -VI (Continuation)

1500-1600 - Open Discussion, Closing Ceremony & Certificate Distribution

1600-1630 - Tea

Few photographs of 87<sup>th</sup> training programme of NITUB



**88<sup>th</sup> Training Programme of NITUB**

On the use, maintenance and trouble-shooting of Gas Chromatography-Mass Spectrometry  
(GC-MS/MS)

Venue: Bioequivalence Building, BCSIR, Dhanmondi, Dhaka-1205

*11 – 16 October 20*

**REPORT**

The 88th Training programme of NITUB on “Use, maintenance and trouble-shooting of Gas Chromatography-Mass Spectrometry (GC-MS/MS)” was held at the Bioequivalence Building, BCSIR, from 11-16 October 2025. Dr Altaf Hussain, Former Professor, at the Department of Chemistry, University of Dhaka, and General Secretary of NITUB, was the Convener of the programme committee. Five Scientists from Bioequivalence Building and BCSIR worked as resource persons to conduct and supervise the training programme.

A promotional flyer was distributed to different educational and research organizations in Bangladesh. 20 participants (List enclosed) registered and completed the training. It was evident from the pre and post-training evaluation tests reports collected from the participants that the training programme was a very effective one. The training covered both theoretical and practical aspects of GC-MS/MS. The participants received training on the most advanced Agilent GC-MS/MS, Model: 8890 GC System, 7010B GC/TQ, 7693A Auto Sampler, 7697A Headspace Sampler instrument and learned sample preparation and quantitative analysis of active pharmaceutical ingredients in medicines. They are also trained in instrument operation, maintenance, trouble-shooting and method development and optimization. Theoretical lectures were covered by Scientists of BCSIR and current and former faculties of the University of Dhaka. A detailed schedule is provided in the report.

The inaugural session of the program was held at the conference room of Bioequivalence Building, BCSIR, Dhanmondi, Dhaka-1205, on 11 October 2025. Dr Samina Ahmed, Chairman, of BCSIR, kindly attended as the chief guest. She congratulated NITUB and Bioequivalence Building of BCSIR for arranging this event. Dr Mesbahuddin Ahmad, Dr Altaf Hussain, Dr Nilufar Nahar, Dr Mohammad Shoeb, and Dr Zakir Sultan were present at the inaugural session. Dr Md. Hossain Sohrab, Satyajit Roy Rony, Fatema Moni, Md. Ariful Haq and Najem Uddin were present from BCSIR as trainers. Dr Altaf Hussain in his speech briefly introduced NITUB and its activities.

The closing ceremony was held on 16 October 2025, presided by Professor Dr Mesbahuddin Ahmad, Dr Altaf Hussain. Dr Rokeya Begum, joint secretary NITUB, Dr Nilufar Nahar, Dr Mohammad Shoeb and Scientists of Bioequivalence Building were present at the event. An open discussion was held and participants thanked NITUB and BCSIR for the arrangement and affords in making this event a successful one. Different suggestions were received for future improvement of NITUB events. Dr Altaf Hussain thanked Chairman and Scientists of BCSIR and the participants for this event. Dr Hussain, in his speech also highlighted the genesis of NITUB and highlighted its activities in detail. Dr Nilufar Nahar thanked all participants and resource persons for the program. The event concluded with the distribution of certificates and a photo session.

## Participants List:

1	Shamim Akram Scientific Officer (SO) Soil Science Division, BINA, HQ BAU Campus, Mymensingh-2202 Mobile: +880 1725 402837 Email: <a href="mailto:shamim2827@gmail.com">shamim2827@gmail.com</a>	2	Alif Hossain Scientific Officer (SO) Soil Science Division, BINA, HQ BAU Campus, Mymensingh-2202 Mobile: +880 1647 627628 Email: <a href="mailto:alif.bina21@yahoo.com">alif.bina21@yahoo.com</a>
3	Shakil Ahmed PS to Pro-Vice Chancellor & Section Officer Noakhali Science & Technology University, Noakhali-3814 Mobile: 01515-624875 Email: <a href="mailto:shakil_swedu@yahoo.com">shakil_swedu@yahoo.com</a>	4	K. M. Oajedul Islam Lecturer Department of Applied Chemistry and Chemical Engineering University of Dhaka, Dhaka-1000 Mobile: 01517-800125 Email: <a href="mailto:oajed.chel5@gmail.com">oajed.chel5@gmail.com</a>
5	Md. Moinul Islam Shift Manager Laboratory, Karnaphuli Fertilizer Co. Ltd. (KAFCO) Rangadia, Anowara, Chittagong-4000 Mobile: +880 1817 714867 Email: <a href="mailto:moinul.islam@kafcobd.com">moinul.islam@kafcobd.com</a>	6	Mr. Jahirul Alam Papel Assistant Manager (QC) Eastern Refinery Limited North Patenga, Chittagong-4000 Mobile: 01996-216952 Email: <a href="mailto:johirpapel@gmail.com">johirpapel@gmail.com</a>
7	Dr. Asma Rahman Principal Scientist Centre for Advanced Research in Science (CARS), University of Dhaka, Dhaka-1000 Mobile: 01738-740935 Email: <a href="mailto:asma.pharma@du.ac.bd">asma.pharma@du.ac.bd</a>	8	Md. Reyad Murshed Chowdhury Senior Executive (QC) Delta Pharma Limited Pakundia, Kishorgonj, Dhaka Mobile: 01713-093607 Email: <a href="mailto:reyad.ch@gmail.com">reyad.ch@gmail.com</a>
9	Md. Sahariar Sahin Research Associate Ecotoxicology (EHE), Department of Environmental Sciences, Jahangirnagar University, Savar, Dhaka Mobile: 01610-040758 Email: <a href="mailto:sahariarsahen@outlook.com">sahariarsahen@outlook.com</a>	10	A. H. M. Shafiul Azam Sr. Executive, Quality Control Advanced Chemical Industries Ltd. Narayanganj Mobile: +880 1719 513977 Email: <a href="mailto:shafiul.azam@aci-bd.com">shafiul.azam@aci-bd.com</a>
11	Md. Rafsanul Hoque Sr. Executive, Product Development Advanced Chemical Industries Ltd. Narayanganj Mobile: 01786-173459 Email: <a href="mailto:siamju40@gmail.com">siamju40@gmail.com</a>	12	Md. Shoeb Hassan Siddique Executive, Engineering Advanced Chemical Industries Ltd. Narayanganj Mobile: 01754-209423 Email: <a href="mailto:shoeb@aci-bd.com">shoeb@aci-bd.com</a>

13	<p>Md. Shoaib Hasan  Sr. Executive, VD &amp; LCM  Advanced Chemical Industries Ltd.  Narayanganj  Mobile: 01304-092927  Email: <a href="mailto:hasan.shoaib1111@gmail.com">hasan.shoaib1111@gmail.com</a></p>	14	<p>Md. Tarikuzzaman  Sr. Executive, Quality Control  Advanced Chemical Industries Ltd.  Narayanganj  Mobile: 01797-597780  Email: <a href="mailto:tarikuzzaman06@gmail.com">tarikuzzaman06@gmail.com</a></p>
15	<p>Muhammed Sakib Hasan  Sr. Experimental Engineer  Chemical Engineering Department  BUET, Dhaka-1000  Mobile: 01771-954015  Email: <a href="mailto:sakib084.eee@gmail.com">sakib084.eee@gmail.com</a></p>	16	<p>Fahad Arefeen  Senior Instrument Officer  Toxicology Society of Bangladesh  Dhaka.  Mobile: 01521-203067  Email: <a href="mailto:061814@gmail.com">061814@gmail.com</a></p>
17	<p>Md. Ziaul Haque  Sr. Executive, QC  Quality Control Department  Opsonin Pharma Limitd   Mobile: +880 1718 167656  Email: <a href="mailto:ziaulopsonin@gmail.com">ziaulopsonin@gmail.com</a></p>	18	<p>Mohammad Mainuddin Hasan  Executive, PD  Product Development Department  Opsonin Pharma Limitd   Mobile: +880 1827 225566  Email: <a href="mailto:hasanshipo66@gmail.com">hasanshipo66@gmail.com</a></p>
19	<p>Kamrul Hassan  Dy. Manager, QC  Quality Assurance Department  OSL Pharma Limited   Mobile: 01715-024190  Email: <a href="mailto:kamrul_hassan_74@yahoo.com">kamrul_hassan_74@yahoo.com</a></p>	20	<p>Tanvir Siddiki  Executive, QC  Quality Assurance Department (Capsule)  Global Capsules Limited   Mobile: 01930-390479  Email: <a href="mailto:tanvirsiddiki1996@gmail.com">tanvirsiddiki1996@gmail.com</a></p>

**Detail Programme**

**11 October, 2025 (Saturday)**

0900-1000 - Registration of Participants

1000-1100 - Inauguration of the 88th Training Programme

1100-1130 - Tea

**1130-1230 - Lecture 1: Principles of GC-MS/MS an overview: components, identification, and quantification of an analyte**

*Professor Nilufar Nahar, Former Chairperson, Department of Chemistry, University of Dhaka*

**1230-1300 - Practical Session 1: Demonstration of GC- MS/MS**

1300-1400 - Lunch

1400-1630 - Practical Session 1: Continuation

1630-1700 - Tea

**12 October, 2025 (Sunday)**

0930-1030 - **Lecture 2: Troubleshooting, and Maintenance of GC-MS/MS**

*Dr. Md. Ahsan Habib, Department of Chemistry, University of Dhaka.*

1030-1100 - Tea

1100-1300 - **Practical Session 2:**

**Group A: Analysis of Natural / Synthetic Chemical Compounds.**

**Group-B: Analysis of Residual Solvents.**

**Group-C: Quantification using MRM method**

*Mr. Satyajit Roy Rony, Senior Scientific Officer, BCSIR Dhaka Laboratories, Dhaka-1205*

*Fatema Moni, Senior Scientific Officer, BCSIR Dhaka Laboratories, Dhaka-1205*

*Md. Najem Uddin, Scientific Officer IBSPS, BCSIR Dhaka Laboratories, Dhaka-1205*

*Md. Ariful Haq, Scientific Officer, BCSIR Dhaka Laboratories, Dhaka-1205*

1300-1400 - Lunch & Prayer

1400-1630 - Practical Session: 2 Continuation

1630-1700 - Tea & Discussion

**13 October, 2025 (Monday)**

0930-1030 - **Lecture 3: Method development and validation for analysis of Organic pollutants.**

*Professor Dr. MD. Iqbal Rouf Mamun, Department of Chemistry, University of Dhaka.*

1030-1100 - Tea

1100-1300 - **Practical Session 3:**

**Group B: Analysis of Natural / Synthetic Chemical Compounds.**

**Group-C: Analysis of Residual Solvents.**

**Group-A: Quantification using MRM method**

1300-1400 - Lunch & Prayer

1400-1630 - Practical Session: 3 Continuation

1630-1700 - Tea & Discussion

**14 October, 2025 (Tuesday)**

0930 -1030 - **Lecture 4: Gas Chromatography for analysis of Pesticide residue: Quality control and Challenges**

*Dr. Md. Nurul Huda Bhuiyan, Research Coordinator & PSO, BCSIR*

1030-1100 - Tea

1100-1300 - **Practical Sessions 4:**

**Group C: Analysis of Natural / Synthetic Chemical Compounds**

**Group A: Analysis of Residual Solvent**

**Group B: Quantification using MRM method**

1300-1400 - Lunch & Prayer

1400-1630 - Practical Sessions: 4 Continuation

1630-1700 - Tea & Discussion

**15 October, 2025 (Wednesday)**

0930 -1030 - **Lecture 5: Application of GC-MS/MS in Food Science**

*Professor Dr. Mohammad Shoeb, Department of Chemistry, University of Dhaka.*

1030-1100 - Tea

1100-1200 - **Lecture 6: Application of GC-MS/MS in Pharmaceutical Products**

*Dr. Md. Hossain Sohrab, Director, BCSIR Dhaka Laboratories, Dhaka-1205*

1200-1300 - **Practical Sessions 5:**

*Group A, B & C: Analysis and determination of adulterants in drugs.*

1300-1400 - Lunch & Prayer

1400-1630 - **Practical Sessions 5:** Continuation

1630-1700 - Tea & Discussion

**16 October, 2025 (Thursday)**

0930-1030 - **Lecture 7: Extraction Techniques in Sample Preparation and Method Development for GC-MS/MS Analysis**

*Dr. Md. Ahedul Akbor, Principal Scientific Officer, BCSIR, Dhaka*

1030-1100 - Tea

1100-1300 - **Practical Session 6:**

Individual problem-solving session

1300-1400 - Lunch & Prayer

1400-1500 - Practical Session 6: Continuation

1500-1600 - Closing ceremony & certificate distribution

1600-1700 - Tea

**Photographs of 88th training programme of NITUB**



**Report of lecture series on the advancement of instrumental techniques**

In 2025, NITUB decided to organize a lecture series on the recent advancement of instrumental techniques. The first lecture of the series titled as “Recent Advancements in Instrumental Techniques for Monitoring Environmental Air Quality” was delivered by Professor Abdus Salam, Dean, Faculty of Science, University of Dhaka, on 24 January 2025. The seminar was focused on recent developments in analytical and instrumental methodologies for environmental air quality monitoring, highlighting their applications in research. A total of 36 participants, attended the lecture, the list of participants is given below

**Participants List:**

1	Professor Altaf Hussain Professor Altaf Hussain General Secretary, NITUB	2	Professor Nilufar Nahar Department of Chemistry, Dhaka University, Dhaka-1000
3	Professor Nishat Ahmed Pasha Department of Chemistry ,Dhaka University	4	Mr. Md Kaium Deputy Director (C C), Central Drug Testing Laboratory (CDTL) Directorate General of Drug Administration (DGDA) Agrabad, Chattogram.
5	Dr. Farida Begum Professor , Department of Chemistry, University of Dhaka	6	Dr. Md. Abu Bin Hasan Susan Professor, Department of Chemistry University of Dhaka, Dhaka-1000
7	Dr. Mohammad Shoeb Professor, Department of Chemistry, University of Dhaka, Dhaka	8	Dr. Md. Kamrul Islam Khan Training Officer, Training & Publication Section, Bangladesh Institute of Nuclear , Agriculture (BINA), BAU Campus, Mymensingh
9	Dr. Md. Abdul Jabbar Professor Department of Chemistry, University of Dhaka, Dhaka-1000,	10	Md. Sohel Ahmed Choudhury B. Sc Engineer (Mechanical) Officer-1 (Establishment and Maintenance Engineer) 23, North Kamlapur, Bazar Road, Motijheel, Dhaka
11	Dr Md. Mufazzal Hossain Professor Department of Chemistry, University of Dhaka	12	Md. Sohel Ahmed Choudhury B. Sc Engineer (Mechanical) Officer-1 (Establishment and Maintenance Engineer) 23, North Kamlapur, Bazar Road, Motijheel, Dhaka
13	Dr. Muhammed Shah Miran Professor, Department of Chemistry, University of Dhaka, Dhaka	14	Dr. Md. Aftab Ali Shaikh Professor, Department of Chemistry University of Dhaka, Dhaka
15	A. B. M. Ferdaus Habib Lab. Technician Dept. of Soil Science BAU	16	Professor Dr. Begum Rokeya , Dean , Department of Pharmacology , BUHS, 125/1 Darus Salam, Mirpur-1, Dhaka-
17	Md. Abul Kalam Chowdhury Instrument Engineer, NITUB	18	Dr. Tapas Debnath Associate Professor, Department of Theoretical and Computational Chemistry, University of Dhaka, Dhaka-1000

19	Dr. Md. Shahidur Rahman Associate Professor, Department of Chemistry, University of Dhaka, Dhaka-1000,	20	Md. Habibur Rahman Assistant Radio Engineer , High Power Transmitter-1 (HPT-1) Bangladesh Betar Savar, Dhaka
21	Dr. Abdus Salam Professor, Department of Chemistry, University of Dhaka	22	Aziz Ahmed Additional Chief Engineer, Professor Muhammed Hussain Central Laboratory, (BAU)
23	Md. Rakibul Islam Assistant Engineer (Electronics) Engineering Section Bangabandhu Sheikh Mujibur Rahman Agricultural University, Salna, Gazipur	24	Abdullah-Al-Monir Deputy Engineer, Insaf Barakah Kidney & General Hospital 11, Shahid Tajuddin Ahmed, Moghbazar, Dhaka
25	Pranab Kumar Nandy Scientific Officer, IMMM, BCSIR, Science Laboratory Road Khanjanpur, Joypurhat	26	Md. Omar Fardous Deputy Chief Instrument Engineer, Professor Muhammad Hossain Central Laboratory, Bangladesh Agriculture University , Mymensingh
27	Dr. Md. Zakir Sultan Principal Scientist , Centre for Advanced Research in Sciences, University of Dhaka, Dhaka	28	A. K. M. Humayun Kabir Ph D Fellow, Department of Medicine, Faculty of Veterinary Science. B A U Mymensingh
29	Dr. Sajia Rahman Senior Scientific Officer (SSO), Plant Genetic Resources Centre (PGRC), Bangladesh Agricultural Research Institute (BARI),	30	Nihar Ranjan Chakraborty Senior Quality Control Officer, Kumudini Pharma Limited Narayanganj
31	Badhan Saha Senior Scientific Officer, Soil & Environment Section, Biological Research Division, BCSIR Laboratories Dhaka, BCSIR	32	Rupa Saha Quality Control Officer, Kumudini Pharma Limited 86, Sirajuddowla Road, Narayanganj
33	Md. Liman Sikder Executive, QC, Navana Pharmaceuticals Ltd., Rupshi, Rupganj, Narayanganj	34	Sujan Kanti Das Scientific Officer, BCSIR Laboratories, Chittagong-4220
35	Md. Nazrul Islam MPhil Student, Department of Chemistry, University of Dhaka	36	Rafiza Islam PhD Student, Department of Chemistry, University of Dhaka

## Enclosure -V

The second lecture of the series, titled “LC–Tandem Mass Spectrometry: Applications and Problem Solving,” was delivered by Dr.(Mrs.) Tamanna Rob, Senior Software Verification Lead, SCIEX, Canada, on 15 November 2025. The lecture provided a comprehensive overview of the fundamental principles and operational aspects of Liquid Chromatography–Tandem Mass Spectrometry with particular emphasis on its wide-ranging applications in environmental analysis, food safety, pharmaceutical research, and clinical diagnostics. Special attention was given to method development, optimization of analytical parameters, trouble-shooting of common instrumental and analytical issues, and effective strategies for data interpretation and quality assurance.

The session also highlighted recent technological advancements in mass spectrometric instrumentation and discussed practical considerations for ensuring accuracy, sensitivity, and reproducibility in laboratory analyses. A total of 48 participants attended the lecture, the list is given below:

### Participants List:

1	Professor Altaf Hussain General Secretary,NITUB	2	Prof. Mesbah Ahmad, President , NITUB
3	Professor Nilufar Nahar Treasure, NITUB	4	Mirza Rayan,, Department of Chemistry, University of Dhaka
5	Sabrina Islam, Department of Chemistry, University of Dhaka	6	Afsana Akter Akhi, Department of Chemistry, University of Dhaka
7	Shatabdhi Chakma,, Department of Chemistry, University of Dhaka	8	A.T.M Mesbahul Haque Orbit Trade 64/2-A, R.K. Mission Road (Ground & 1 <sup>st</sup> Floor), Dhaka-1203
9	Md .Halimur Rahman,M.S Student, Department of Chemistry, University of Dhaka	10	Md.Ariful Ullah, M.S Student, Department of Chemistry, University of Dhaka
11	Dr. Ayesha Afrin Associate Professor, Department of Applied Chemistry and Chemical Engineering , University of Chittagong, Chittagong	12	Md. Fakrul Islam, Executive Engineer, Centre for Advanced Research in Sciences (CARS), University of Dhaka.
13	Rafiza Islam, PhD Student Department of Chemistry University of Dhaka	14	Professor Dr. Begum Rokeya Dean , Department of Pharmacology BUHS, 125/1 Darus Salam, Mirpur-1, Dhaka-1216

15	Dr. Joel Ojogbane Onoja Ph.D. in Pharmacognosy/Natural Product Chemistry, University of Ibadan, Nigeria.	16	Dr. Mohammad Shoeb Professor, Department of Chemistry University of Dhaka, Dhaka-1000
17	Nudrat Nakib 2131265647 NGRI	18	Nargis Parvin PhD Student, Department of Chemistry, University of Dhaka Dhaka-1000, Bangladesh
19	Mahmudul Hasan Dy. Manager, QC Quality Assurance Department OSL Pharma Limited	20	Asraful hasan Ronoy Executive, QC Quality Assurance Department Global Capsules Limited
21	Rawnak Bin Akter , 4th year Student , Department of Chemistry, University of Dhaka	22	Israt Jahan Heme , M.S Student, Department of Chemistry, University of Dhaka
23	Olusola Idowu, Clinical Assistant Professor – Anesthesia,Ibadan, Nigeria	24	Md. Abul Kalam Chowdhury Instrument Engineer, NITUB
25	Alif Hossain , Scientific Officer (SO) Bangladesh Institute of Nuclear Agriculture (BINA)	26	Md. Murshed Hasan Mustafa PhD fellow , Department of Animal Science, BAU
27	Ayesha Quality Control, BAPARD Gopalganj	28	Md.Murshed Hasan Mustafa
29	AKM Saiful Islam Senior Scientific Officer Farm Machinery and Postharvest Technology Division. Bangladesh Rice Research Institute (BRRI), Gazipur	30	Kazi Md. Sajid Ali Laboratory Supervisor Chevron Bangladesh 5/A Shourov Raynogor, Dorgipara Shylhet
31	Dr Nusrat Subhan	32	Md. Kamrul Hassan Deputy Director Department of Environment Chattogram Laboratory,
33	Md.Halimur Rahman Lab Officer, Department of Chemistry, University of Dhaka	34	Rebeka Sultana Parul, Department of Chemistry, University of Dhaka
35	Milon Kumar Biswas Senior Scientific Officer Faridpur Diabetic Association Hospital Jheeltuly,	36	Dr. Md. Abu Bin Hasan Susan Professor Department of Chemistry University of Dhaka,

37	Mushtaq Ahmed Professor Civil and Environmental Engineering Shahjalal University of Science & Technology, Sylhet	38	Ms. Junaida Khaleque Laboratory Coordinator Department of Pharmacy North South University
39	Sadia Afreen 152/1, Moghbazar Nayatola (2nd Floor, South Side) Dhaka-1217	40	Md. Shahin Mia Senior Executive Officer, Engineering Incepta Pharmaceuticals Ltd.
41	Shammana Ahmed Research Associate Advanced Seed Research & Biotech Centre	42	Badhan Saha Senior Scientific Officer Soil & Environment Section
43	Fazle Elahi Rezwana Quality Control Officer SMC Enterprise (ORS Factory) Bhaluka, Mymensingh	44	Jahidul Islam Lab Officer Paragon Poultry Ltd. (Feed Division),
45	Ariful Haque Assistant Manager Chrom World Bangladesh Ltd.	46	Ms. Shamsun Nahar Scientific Officer National Institute of Biotechnology
47	Md. Shofiqul Islam Senior Lab Officer Department of Pharmacy East West University, Dhaka	48	Engr. Md. Tanvir, Instrument Engineer, NITUB

Group/Network Code  
University/Institution  
Program Title

NITUB

**Statement of Accounts**

Financial Reporting

Network of Instrument Technical personnel and User scientists of Bangladesh

Starting

1/1/2025

Ending

12/31/2025

Currency:

Exchange rate :1SEK= 12.57BDT

Transaction	Balance brought forward (SEK)	Funds received (SEK)		Revised Budget		Expenditures(SEK)	Balance carried forward (SEK)
		Date	Amount		%		
Balance from 2024 of NITUB-ISP Account	-245066						
ISP funds received		6/3/2025	101,294.00				
Bank Interest		12/31/2025	756.80				
...							
Equipment, spare parts, service				5,000.00	22%	6,087.11	
Field work & Others				3,000.00	16%	3,494.82	
Publication/Literature costs				5,000.00	-6%	4,707.55	
Conference/ Workshop/ Training programme				40,000.00	71%	68505.17	
Exchange visits by co-operating scientists				0.00	#DIV/0!		
Fellowships for training				0.00	#DIV/0!		
Support to students				2,000.00	-46%	1,084.40	
Administrative costs				42,120.00	359%	193,379.79	
Sci.Ref group meeting participation costs				0.00	#DIV/0!		
Audit Fees for 3 years (2022,2023,2024)				5,000.00	19%	5,966.58	
Bank Charge, NITUB-ISP account					#DIV/0!	530.31	
					#DIV/0!		
					#DIV/0!		
<b>Total</b>	<b>-245066</b>		<b>102,050.80</b>	<b>102,120.00</b>	<b>178%</b>	<b>283,755.73</b>	<b>-426,770.93</b>

Submitted by

Date

*Altaf Hussain*

1/28/2026

Altaf Hussain  
Project Leader, NITUB

Comments: NITUB has to keep higher budgetary allocation for two items: (i) conference / workshop / training programme / and (ii) administrative costs, to run its activities. Please note that due to fund constraint NITUB has organized limited number of programmes in the year 2025 even than it runs a deficit budget. Revised budget of ISP reduced grant of 2025 of NITUB is not enough to maintain the actual costs of NITUB's limited activities. As NITUB had to spend more money for the two items mentioned, the deviation in these items is more than 25% . It is difficult to get a cheaper office space in Dhaka city however finally NITUB got one and shifted its office to a new one from July 2025. This