26th Year | June 2025 | Issue 46

MIST Newsletter

MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY, BANGLADESH

MOTTO, VISION AND MISSION OF MIST

Motto of MIST : Technology for Advancement

Vision of MIST : To be a center of excellence for providing quality education in the fields of science, engineering and technology, and conducting research to meet the national and global challenges.

Mission of MIST :

Provide comprehensive education and conduct research in diverse disciplines of science, engineering, technology and engineering management.

- Produce technologically advanced intellectual leaders and professionals with high moral and ethical values to meet the socio-economic development of Bangladesh and global needs.
- Conduct collaborative research activities with national and international communities for continuous interaction with academia and industry.
- Provide consultancy, advisory, testing and other related services to government, non-government and autonomous organizations including personnel for widening practical knowledge and to contribute in sustainable development of the society.

CONTENTS

- Academic Affairs
- Delegations
- Achievements
- Sports and Club Activities
- Miscellaneous
- Incoming Officials
- Outgoing Officials
- Publications

COMMANDANT'S FOREWORD

The Military Institute of Science and Technology (MIST) has long been a beacon of academic excellence and innovation since its establishment on 19 April 1998. As we progress into an era defined by the Fourth Industrial Revolution (4IR), MIST remains committed to adapting with the times by advancing education, research, and innovation in science and technology. MIST organizes international conferences, seminars, and workshops to cultivate intellectual growth among students and faculty. These initiatives reflect our dedication to producing globally competent professionals equipped to meet emerging challenges. Our strategic 'Roadmap 2030' guides us toward a future where MIST stands as a center of excellence in technological advancement. This vision underscores our pledge to align with national priorities while establishing a global footprint.

This 46th issue of the MIST Newsletter captures recent milestones and achievements of our vibrant academic community. I extend my sincere appreciation to the Editorial Board for their thoughtful efforts. May this publication inspire continued excellence in all our pursuits.

ACADEMIC AFFAIRS

22ND COUNCIL OF MIST MEETING

The '22nd COUNCIL OF MIST MEETING' was held on 27 January 2025. The Former Honourable Adviser for Education to the Government of the People's Republic of Bangladesh, Mr. Wahiduddin Mahmud, presided over the meeting. General Waker-Uz-Zaman, SBP, OSP, SGP, psc, Chief of Army Staff; Admiral M Nazmul Hassan, OSP, NPP, ndc, ncc, psc, Chief of Naval Staff; and Air Chief Marshal Hasan Mahmood Khan, BBP, OSP, GUP, nswc, psc, Chief of Air Staff, attended the meeting. Their participation significantly enhanced the importance of the discussions. Distinguished members of the Council included Lieutenant General S M Kamrul Hassan, BSP, ndc, hdmc, psc, PhD, Principal Staff Officer, Armed Forces Division; Mr. Md. Ashraf Uddin, Secretary, Ministry of Defence; Major General Md Mahbub-ul Alam, BSP, ndc, afwc, psc, MPhil, PhD, Vice Chancellor, BUP; Major General Md. Nasim Parvez, BSP, ndc, afwc, psc, Commandant, MIST; Major General Md Hasan Uz Zaman, ndu, afwc, psc, MPhil, Engineer-in-Chief, Army Headquarters; Major General Khandaker Muhammad Shahidul Emran, ndc, afwc, psc, MPhil, Commandant, BMA; Professor Dr. Md. Kabirul Islam from BUET and several other eminent dignitaries from different ministries and organizations were present. Discussions on MIST's future development at the meeting culminated in several key decisions. Plans were outlined to increase seat capacities across BSc Engineering programmes, establish new faculties and departments for inclusion in international university rankings, introduce an MSc in Cybersecurity, and set up a Biomedical Research and Innovation Centre (BRIC). In his closing remarks, Mr. Wahiduddin Mahmud, the Honourable Adviser for Education, expressed gratitude to all participants for their constructive engagement. He concluded with optimism that the meeting's resolutions would usher in a new era of innovation and excellence for MIST and the broader field of technological education in Bangladesh.

ACADEMIC COUNCIL OF MIST

The '84th and 85th ACADEMIC COUNCIL MEETINGS OF MIST' were held on 21 January 2025 and 30 April 2025 respectively. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, chaired the meetings. Representatives from the Ministry of Education, Ministry of Defence, Armed Forces Division, Three Services Headquarters, BMA, BNA, BAFA, as well as academicians from BUET, BUP, and Dhaka University, along with officers from MIST also participated in the meetings.

ACADEMIC AFFAIRS

COMMITTEE FOR ADVANCED STUDIES AND RESEARCH (CASR) MEETING OF MIST

The '40th and 41st COMMITTEE FOR ADVANCED STUDIES AND RESEARCH (CASR) MEETINGS OF MIST' were held on 20 March and 26 June 2025 respectively. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, chaired the meeting. Representatives from BUET and BUP were also present. Various issues concerning postgraduate students, including the selection of supervisors, research proposals, research costs, and the approval of defence boards were discussed in the meeting.

1ST INDUSTRIAL ADVISORY PANEL (IAP) MEETING OF EECE DEPARTMENT

The 1st 'INDUSTRIAL ADVISORY PANEL (IAP) MEETING' was organized on 05 February 2025 by the Department of Electrical, Electronic and Communication Engineering (EECE). The meeting was held to reinforce the key aspects of industry-academia collaboration. The primary agenda of the meeting centered on exploring career opportunities for MIST graduates across various industries. During the session, industry representatives provided valuable feedback on the performance of MIST alumni in professional settings. They proposed conducting training sessions with their industry personnel and skilled engineers for fresh MIST graduates. One of the IAP members expressed interest in collaborating on nanotechnology research and demonstrated enthusiasm for taking on a joint supervisory role. Additionally, the panel conducted a comprehensive review of the existing curriculum, evaluating its alignment with industry demands and technological advancements. It also emphasized the inclusion of modern and emerging topics such as Quantum Computing and Renewable Energy in the related curricula. The Head of the Department and other faculty members drew attention to the importance of launching short courses and training programs for MIST students, with the active involvement of industry experts as trainers. They also highlighted the need to expand research opportunities in collaboration with different industries. Based on the above discussions, the meeting served as a constructive platform for bridging the gap between academia and industry, fostering a collaborative approach to the education, and professional development of students, and faculty in the EECE Department.

SEMINAR ON URBAN MAPPING

A SEMINAR ON 'URBAN MAPPING' was held at the Architecture (Arch) Department, MIST, under the MoU between MIST and the ReWET Consortium on 04 February 2025. Dr. Tanzil Shafique, ReWET Project Lead and Assistant Professor at the University of Sheffield, UK was the keynote speaker of the seminar. All students and faculty members of the Architecture Department attended the event. It is worth mentioning that the Department of Architecture, MIST has recently signed an MoU with the ReWET Consortium for Knowledge Exchange Networks (KEN). The keynote speaker focused on:

i) The potential of mapping and its role in identifying problems for possible urban planning and design solutions aimed at holistic development.

ii) Various existing methods of urban mapping and real-case examples are discussed, with a focus on Dhaka city and its urban development.

iii) The alignment of the ReWET project, showcasing ongoing work and demonstrating the feasibility of mapping-driven design development, which can serve as a model for other projects.

iv) During the Q&A session, students, and faculty members asked numerous questions and received feedback from the speaker.

SEMINAR ON AI: ALIEN INTELLIGENCE OR ARTIFICIAL INTELLIGENCE? WILL AI WIPE OUT ARCHITECTS?

The Department of Architecture (Arch) organized a SEMINAR ON 'AI: ALIEN INTELLIGENCE OR ARTIFICIAL INTELLIGENCE? WILL AI WIPE OUT ARCHITECTS?' on 9 January 2025. The keynote speaker was Ashik Vaskor Mannan, Senior Associate Professor in the Department of Architecture at AIUB and Principal Architect at Studio XI Architects. All students and facultymembers of the Architecture Department attended the event. The keynote speaker focused on:

i) The transformative potential of artificial intelligence (AI) in architecture and other forms of art. ii) Fundamentals of AI. iii) The role of neural networks. iV) Examples of AI-generated designs from around the world.

WORKSHOP ON REVITALIZING THE LAND AND WATER INTERFACE OF KARAIL

A WORKSHOP ON 'REVITALIZING THE LAND AND WATER INTERFACE OF KARAIL' was held at the Architecture (Arch) Department, MIST, under the MoU between MIST and the ReWET Consortium on 04 February 2025. Dr. Tanzil Shafique, ReWET Project Lead and Assistant Professor at the University of Sheffield, UK was the lead instructor of the workshop. Other instructors included Assoc. Prof. Md. Sazzad Hossain, Coordinator, Department of Architecture, MIST, for the ReWET Knowledge Exchange Network; Asst. Prof. Dr. Syeda Jafrina Nancy; and Lecturer Afeefa Adeeba Rahman. The Level 04 students attended the workshop, discussing their ongoing studio project, 'Living on the Edge: Community and Nature in Harmony at Karail' and its potential for revitalizing the land and water interface. They shared insights on their survey procedures, findings, existing conditions, and conceptual proposals with the instructors. A constructive discussion followed on aligning the project with strategies to enhance livability through land and water revitalization. The instructors provided feedback, with Dr. Shafique sharing his experiences, findings from the ReWET project, and perspectives on rethinking existing slum conditions using nature-based solutions. It is to be mentioned that the Department of Architecture, MIST, recently signed an MoU with the ReWET Consortium for Knowledge Exchange Networks (KEN).

WORKSHOP ON CAREER PLANNING FOR IPE STUDENTS

To help students prepare for their professional journey, the Industrial and Production Engineering (IPE) Department conducted a WORKSHOP ON 'CAREER PLANNING' on 11 February 2025. The workshop featured Md. Ishtiak Alam Jordge, Division Head of Marketing & Merchandising at Urmi Group, and Joytun Nisa Joti, a Distribution & Logistics Planner at Singer Bangladesh Limited with extensive experience in the industry and shared valuable insights into career pathways, professional growth, and key industry trends. The session guided students on Industrial and Production Engineering career opportunities, equipping them with essential strategies for success in the job market. The Head of the Department, faculty members, and students actively participated, making the event highly engaging and informative.

LAUNCHING CEREMONY OF THE ONLINE VERSION OF MIJST JUNE 2025 ISSUE

Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Chief Patron of the MIST International Journal of Science and Technology (MIJST), officially announced the launch of the online version of the June 2025 issue on 30 June 2025. This significant milestone highlights MIJST's ongoing commitment to promoting scientific research and innovation by providing open access to high-quality academic publications. The newly released online edition is now accessible to readers, researchers, and contributors across the globe. The event was organized by the Research and Development (R&D) Wing of the Military Institute of Science and Technology (MIST).

WEBINAR ON DELVE INTO AI AND ROBOTICS: INSIGHTS FROM MIT AND CAL POLY EXPERTS

On 04 February 2025, the Department of Computer Science and Engineering (CSE) of MIST organized an insightful WEBINAR ON 'DELVE INTO AI AND ROBOTICS: INSIGHTS FROM MIT AND CAL POLY EXPERTS' featuring distinguished speakers from MIT and California Polytechnic State University. The session was led by Akib Zaman, a PhD student at MIT and an ex-MIST CSE graduate, alongside Dr. Fahim Hasan Khan, an Assistant Professor at Cal Poly and an ex-MIST faculty member. Brigadier General Md Mahfuzul Karim Majumder, ndc, psc, te, the former Head of the CSE Department, was the chief guest of the event. The webinar delved into the latest Artificial Intelligence and Robotics advancements, providing participants with a deeper understanding of cutting-edge research, real-world applications, and future possibilities. The speakers shared their experiences, shedding light on global trends and research opportunities for aspiring AI and robotics enthusiasts. Students and faculty members actively engaged in the discussions, making the session interactive and insightful.

WEBINAR ON PREDICTIVE COMPUTATIONAL MATERIAL MODELLING USING MACHINE LEARNING AT ATOMISTIC SCALE

On 16 February 2025, the Department of Aeronautical Engineering (AE) of MIST organized a WEBINAR ON 'PREDICTIVE COMPUTATIONAL MATERIAL MODELLING USING MACHINE LEARNING AT ATOMISTIC SCALE'. The speaker was a Staff Scientist at the prestigious Los Alamos National Laboratory, United States, and an expert in Computational Materials Modelling. His valuable lecture on this topic amazed each student present in the webinar. A total of 100 students participated virtually in this informative session.

WEBINAR ON ADDITIVE MANUFACTURING - A POWERFUL TOOL FOR THE AEROSPACE NDUSTRY AND FUTURE PROSPECT IN BANGLADESH

On 08 January 2025, the Department of Mechanical Engineering (ME) successfully organized a WEBINAR ON 'ADDITIVE MANUFACTURING - A POWERFUL TOOL FOR THE AEROSPACE INDUSTRY AND FUTURE PROSPECT IN BANGLADESH'. The speaker of the webinar was Design Engineer Mahadi Hasan, PhD, from El Paso Makes, USA.

WEBINAR ON OPTIMIZATION IN LOGISTICS

The Department of Industrial and Production Engineering (IPE) successfully organized a WEBINAR ON 'OPTIMIZATION IN LOGISTICS' on 15 January 2025. The session featured Himadri Sen Gupta, a PhD Candidate at the NetSys Research Lab, School of Industrial and Systems Engineering, University of Oklahoma, USA. The webinar provided insightful discussions on logistics optimization, emphasizing efficient resource allocation and decision-making strategies. The Head of the Department, faculty members, and students actively participated, making the event highly engaging and informative.

GUEST LECTURE ON MANAGEMENT AND PRODUCTION IN UNDERGROUND HARD ROCK MINING

The Department of Petroleum and Mining Engineering (PME) organized a guest lecture titled 'MANAGEMENT AND PRODUCTION IN UNDERGROUND HARD ROCK MINING' was conducted on 13 January 2025. The esteemed guest speaker Engr Md. Obaidullah, General Manager (UGO & M) and Engineer to Contract at Maddhapara Granite Mining Company Limited (MGMCL), shared his extensive expertise and knowledge with the attending students. During the lecture, he comprehensively addressed the history of the mine and the current operational processes, including its production mechanisms. This interactive session cultivated students' interest in pursuing a career in Mining Engineering.

GUEST LECTURE ON APPLICATION OF ARTIFICIAL INTELLIGENCE/MACHINE LEARNING IN PETROLEUM ENGINEERING

The Department of Petroleum and Mining Engineering (PME) organized a guest lecture titled 'APPLICATION OF ARTIFICIAL INTELLIGENCE/MACHINE LEARNING IN PETROLEUM ENGINEERING' on 13 February 2025. Faculty members and students of the PME Department attended the event. The esteemed guest speaker Mrs. Maliha Afroz, Assistant Engineer (Chemical), Training Institute for Chemical Industries (TICI), BCIC, delivered an insightful lecture focusing on the transformative role of Artificial Intelligence (AI) and Machine Learning (ML) in the petroleum industry. The speaker shared her professional experience applying ML techniques to real-world Petroleum Engineering challenges. She also conducted a practical demonstration on ASPEN HYSYS, showcasing the simulation of various elements within a processing plant and explaining the workflow involved in such operations. The lecture provided participants with valuable exposure to cutting-edge technological applications and enhanced their understanding of modern tools used in the petroleum sector.

GUEST LECTURE ON NATURAL GAS TRANSMISSION & DISTRIBUTION SYSTEM IN BANGLADESH

The Department of Petroleum and Mining Engineering (PME) on 29 June 2025 successfully organized a guest lecture on 'NATURAL GAS TRANSMISSION & DISTRIBUTION SYSTEM IN BANGLADESH'. The session was graced by the presence of Engineer Deen Mohammad, the Deputy General Manager of Petrobangla, as the keynote speaker. A total of 160 participants, including 149 students from all levels of the PME Department and all faculty members, attended the event with great enthusiasm. The lecture offered valuable insights into the current infrastructure and future prospects of Bangladesh's natural gas transmission and distribution system. It significantly bridged academic learning with real-world industrial applications, enriching the knowledge base of both students and faculty members.

CAREER TALK 2025

On 10 February 2025, the Department of Naval Architecture and Marine Engineering (NAME) hosted a 'CAREER TALK 2025' event at MIST, featuring four esteemed speakers from the maritime industry. The panel included Md. Monirul Islam, CEO of United Naval Architects: Mr. Shamsul Alam, Managing Director of Marine House: Md. Moshfiqur Rahman, a distinguished Marine Surveyor and Captain: Mohammed Tareq, (E), psc, BN. The event provided students with valuable insights into diverse career paths within the maritime sector, covering ship design, surveying, consultancy, and naval operations. It offered a unique opportunity to engage with industry leaders, understand current trends, and seek career guidance. Through this interactive session, students gained clarity on their professional aspirations and were encouraged to explore the dynamic opportunities that lie ahead in the maritime field.

SHORT COURSE ON MAXSURF AND RHINO SOFTWARE

The Department of Naval Architecture and Marine Engineering (NAME), MIST, successfully conducted a three-week short course on 'MAXSURF AND RHINO SOFTWARE' from 04 May to 22 May 2025. A total of 50 students participated, including 41 from Level 3 of MIST and 9 from other universities. The course was conducted by two internal faculty members and one external faculty members, providing hands-on training in ship modeling, design optimization, and hydrostatic analysis. A certificate awarding ceremony was held at the end of the course, graced by the respected Dean of the Faculty of Mechanical Engineering and the Head of the NAME Department. Exposure to industry-standard software like MAXSURF and Rhino equips students with essential skills in 3D modeling and naval design, significantly enhancing their readiness for professional ship design and academic research.

SHORT COURSE ON ANALYSIS OF LUBRICATING OIL AND LIQUID FUEL PROPERTIES

The Department of Petroleum and Mining Engineering (PME) organized a Short Course titled 'ANALYSIS OF LUBRICATING OIL AND LIQUID FUEL PROPERTIES' from 02 to 06 February 2025. Both faculty members and students of the PME Department attended the course. The course instructors were Professor Dr. Md. Amirul Islam, Lecturer Md. Nasirul Islam, and Lecturer Md. Aumio Tajrian. The instructors provided in-depth analysis and hands-on training using the facilities of the Petroleum Products and Lubricating Oil Testing Laboratory (POL). Throughout the course, participants gained valuable insights into determining various parameters essential for ensuring the quality of lubricating oils and liquid fuels.

TRAINING ON HYDROGRAPHIC SURVEY

Faculty members of the Department of Environmental, Water Resources, and Coastal Engineering (EWCE) received hands-on training on 'HYDROGRAPHIC SURVEYIN' Gin the Turag River on 29 and 30 April 2025. The training conducted under the supervision of the Survey & Data Consultant (SDC), focused on the operation of key instruments such as the Acoustic Doppler Current Profiler (ADCP) and Echo Sounder. Participants also gained practical knowledge on generating river bathymetry and measuring discharge, enhancing their capacity for field-based water resource assessments.

ACADEMIC AFFAIRS

FACULTY DEVELOPMENT PROGRAMME 2025

'FACULTY DEVELOPMENT PROGRAMME 2025' was organized by the Academic Wing, MIST, on 01 and 02 June 2025 to improve the teaching skills of the faculty members. Major General Md. Wahid-Uz-Zaman, BSP (BAR), ndc, aowc, psc, te (Retd), former Commandant, MIST, Professor Dr. Mohammad Kaykobad, distinguished Professor, CSE Department, BRAC University, and Prof. M. Tamim, Vice Chancellor, Independent University, graced the programme as guest speakers. They shared their knowledge and expertise with the faculty members, who are the most crucial resource in higher education.

MoU SIGNING WITH ADN DIGINET FOR HEAT PROJECT

On 09 February 2025, the Military Institute of Science and Technology (MIST) and ADN DigiNet signed a 'MEMORANDUM OF UNDERSTANDING (MoU)' to collaborate on the Higher Education Acceleration and Transformation (HEAT) Project. This partnership aims to enhance digital connectivity and resources within higher education institutions in Bangladesh, aligning with the HEAT Project's objectives, which focus on increasing graduate employability and strengthening women's leadership skills. , ADN DigiNet, a prominent IT solutions provider, brings expertise in cloud solutions, software development, and digital transformation to this collaboration. By leveraging ADN DigiNet's technological capabilities, MIST aims to advance its educational infrastructure, thereby contributing to the overall goals of the HEAT Project.

MoU SIGNING CEREMONY BETWEEN BUSINESS AUTOMATION WITH MIST

On 12 March 2025, the Military Institute of Science and Technology (MIST) and Business Automation Ltd. signed a 'MEMORANDUM OF UNDERSTANDING (MoU)' to collaborate on enhancing technological solutions within educational frameworks. This partnership aims to integrate advanced business process automation tools into MIST's administrative and academic operations, streamlining workflows and improving efficiency. By leveraging Business Automation Ltd.'s expertise in automation software, MIST seeks to modernize its processes, aligning with contemporary digital transformation trends in the education sector. This collaboration underscores MIST's commitment to adopting innovative technologies to enhance institutional effectiveness.

ACADEMIC AFFAIRS

ADMISSION TEST 2025 FOR UNDERGRADUATE STUDENTS

MIST conducted 'ADMISSION TEST 2025 FOR UNDERGRADUATE STUDENTS' on 22 February 2025 for Civil Engineering (CE), Computer Science and Engineering (CSE), Electrical, Electronic and Communication Engineering (EECE), Mechanical Engineering (ME), Aeronautical Engineering (AE), Naval Architecture and Marine Engineering (NAME), Bachelor of Architecture (B. Arch), Biomedical Engineering (BME), Nuclear Science and Engineering (NSE), Environmental, Water Resources and Coastal Engineering (EWCE), Petroleum and Mining Engineering (PME), Industrial and Production Engineering (IPE) programmes. A total of 18,254 applicants appeared for the exam to qualify for 860 seats. Commandant, MIST visited different exam centres.

MIST FRESHERS' DAY 2025 HOSTED FOR WELCOMING ACADEMIC SESSION 2024–2025

The Military Institute of Science and Technology (MIST) hosted a 'FRESHERS' RECEPTION FOR THE ACADEMIC SESSION 2024–2025' on 15 June 2025 at the Shaheed Yamin Auditorium, officially welcoming 860 newly admitted students, including 173 military students of 11 BSc engineering departments and architecture department, to the institute. The event was graced by Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST. In his remarks, he congratulated the freshers on their admission and encouraged them to embrace discipline, innovation and learning. He emphasized the importance of active participation in co-curricular activities such as robotics, cultural and literary pursuits, cybersecurity, debate, and aeronautics to foster leadership and all-round development. The ceremony was attended by Deans, Department Heads, Faculty Members, Staff, Parents, and the newly admitted students collectively reflecting the spirited beginning of a new academic year at MIST.

ACADEMIC AFFAIRS

GEOLOGICAL FIELD STUDY OF PETROLEUM AND MINING ENGINEERING (PME) DEPARTMENT

The students of Petroleum and Mining Engineering (PME) Level 01, accompanied by the faculty members of the Department of PME, participated in a 'GEOLOGICAL FIELD STUDY' from 04 to 06 May 2025, as part of their academic curriculum. The field study involved in-depth observations of the Bhuban and Bokabil Formations, Kopili Shale, Dihing Formation, and Girujan Formation across the hilly regions of Tamabil and Jaflong. During the excursion, students were trained in measuring strike and dip using a clinometer, visited the 7th well of the Haripur Gas Field, and examined the Dupitila Formation in the Dupigao hill area. They also acquired practical knowledge in interpreting and identifying locations on geological maps. The field trip was enriched by the presence of Professor Dr. Wobaidullah from the University of Dhaka, who served as the guest faculty for the programme.

INDUSTRIAL TRAINING OF PETROLEUM AND MINING ENGINEERING (PME) DEPARTMENT

The 'INDUSTRIAL TRAINING PROGRAMME' for Level 03 students in the Department of Petroleum and Mining Engineering (PME) was conducted from 11 May to 04 June 2025, as part of their academic curriculum. The training was conducted in four phases, encompassing visits to a range of Petroleum and Mining Engineering companies across the country. These included prominent mining operations in Dinajpur, such as Barapukuria Coal Mining Company Limited (BCMCL) and Maddhapara Granite Mining Company Limited (MGMCL); major gas fields like Titas (Brahmanbaria), Shahbazpur (Bhola), and Rashidpur (Sylhet); leading LPG companies including Orion LPG (Khulna) and JMI Gas (Chattogram); and notable government organizations such as RPGCL and BPI.

INDUSTRIAL TRAINING OF BIOMEDICAL ENGINEERING (BME) DEPARTMENT

The 'INDUSTRIAL TRAINING PROGRAMME' for Level 03 students in the Department Biomedical Engineering (BME) students was conducted across several major healthcare institutions in Dhaka, including Dhaka CMH (Combined Military Hospital), BMU (Bangabandhu Sheikh Mujib Medical University), AMCH (Army Medical College Hospital), JMI Hospital Requisite, NIB (National Institute of Biotechnology), and ICDDR,B (International Centre for Diarrhoeal Disease Research, Bangladesh).

EECE ALUMNI MEET 2025

The Department of Electrical, Electronic and Communication Engineering (EECE), MIST held its 'EECE ALUMNI MEET 2025' on 07 February 2025. The primary objective of the gathering was to discuss the current professional landscape of MIST graduates across various sectors, including academia and industry. The discussion focused on the employment status of the alumni, their roles in different organizations, and the challenges they face in their respective fields. During the meeting, the alumni provided insights into their experiences in the workforce and shared perspectives on enhancing career opportunities for future graduates. A key recommendation was to establish Memorandums of Understanding (MoUs) with leading industries and academic institutions in Bangladesh as well as abroad to cultivate stronger collaborations. The Head of the Department acknowledged the alumni's valuable feedback and expressed interest in further enhancing the quality of education, as well as advancing intensive research and internship opportunities.

ME ALUMNI DAY 2025

On 17 February 2025, the Department of Mechanical Engineering organized the 2nd 'ME ALUMNI DAY 2025' (MECHALUMS 2.0) with the presence of former students who shared their professional experiences. The event was graced by Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, as the chief guest.

AE ALUMNI MEET 2025

On 04 January 2025, the Department of Aeronautical Engineering (AE) organized its 'ALUMNI MEET 2025', bringing together graduates, faculty members, and staff for a day of reconnection and celebration. Head of the AE Department, Air Cdre Md Maksudul Alam, BUP, psc, chaired the programme. The event provided a platform for alumni to reconnect with peers, share professional experiences and strengthen their ties with the institution. The gathering also highlighted the department's achievements and legacy while fostering meaningful collaboration between alumni and faculty members. Marking a new chapter in this partnership, the event underscored the enduring bond between graduates and their alma mater.

VISIT OF PSO AFD TO MIST

On 07 January 2025, Lieutenant General S M Kamrul Hassan, BSP, ndc, hdmc, psc, PhD, Principal Staff Officer of the Armed Forces Division (AFD), along with AFD delegates, visited the Military Institute of Science and Technology (MIST). The Colonel Staff welcomed the delegation with a briefing, who highlighted MIST's various activities and state-of-the-art facilities. Following the briefing, the delegation toured key laboratories, including the Concrete Lab and Structural Mechanics Lab in the Civil Engineering (CE) Department and the Cyber Range Lab in the Computer Science and Engineering (CSE) Department. They observed cutting-edge equipment and research tools used in advanced studies. The Electrical, Electronic, and Communication Engineering (EECE) Department also showcased innovative projects in the Power System Lab. During the visit, Lieutenant General Hassan discussed potential collaborations in academic development and defense technology with senior MIST officials and faculty members. This engagement is expected to strengthen institutional ties between the Armed Forces Division and MIST, fostering future cooperation in defense-related research and innovation.

VISIT OF BAETE EVALUATION TEAM FOR ACCREDITATION OF NAME DEPARTMENT

On 15, 16, and 17 May 2025, the Department of Naval Architecture and Marine Engineering (NAME), MIST welcomed a distinguished team from the Board of 'ACCREDITATION FOR ENGINEERING AND TECHNICAL EDUCATION (BAETE)' for an official accreditation visit it is an important step which is a critical benchmark that ensures the academic programme meets nationally recognized standards of quality, relevance, and continuous improvement. It enhances the credibility of the degree, supports student mobility, and strengthens graduate prospects both locally and internationally. The three-day visit was held at the MIST campus and included comprehensive evaluations of NAME's academic program, facilities, student outcomes, and overall institutional preparedness for Outcome-Based Education (OBE). The department gratefully acknowledges the efforts of all involved in the preparation. The successful hosting of the BAETE team was made possible through months of rigorous preparation and collaborative effort. While the final outcome is awaited, the visit itself reflects NAME's dedication to continuous improvement, and institutional growth.

DELEGATIONS

ITN-BUET TEAM VISIT TO MIST

On 21 April 2025, a delegation from the International Training Network (ITN) Bangladesh University of Engineering and Technology (BUET) visited the Military Institute of Science and Technology (MIST). Professor Dr. Rowshan Mamtaz, the director of ITN-BUET, led the visiting team. The visit aimed to foster mutual understanding, explore collaborative opportunities and enhance academic and research partnerships between the two esteemed institutions. Senior officials and faculty members of MIST warmly received the visiting team. During the visit, both parties engaged in fruitful discussions on potential collaboration areas. The team also toured MIST's Civil Engineering and Environmental Engineering Laboratory research facilities, including the central library. This hands-on experience highlighted the impressive infrastructure and innovation-driven environment of MIST.

VISIT OF GROUP COMMANDER OF THE ARMY AVIATION GROUP

The Group Commander of the Army Aviation Group, Major General I K M Mostahsenul Baki, ndc, afwc, psc paid an official visit to the Military Institute of Science and Technology (MIST) on 19 January 2025. During the visit, the distinguished guest was received with due honors and was briefed on the academic, research, and infrastructural advancements of the institute. The visit included a tour of various research facilities and UAV project. This visit marked a significant step toward strengthening institutional ties and exploring future opportunities for cooperation.

VISIT OF ARMED FORCES WAR COURSE (AFWC) PARTICIPANTS

On 17 February, 2025 a team from the Armed Forces War Course (AFWC) visited the Cyber Range of the CSE Department as part of their academic and strategic learning initiatives. During their visit, they were given an exclusive tour of the facility, providing them with insights into advanced cybersecurity practices and defense mechanisms. Notably, a special briefing session was arranged, where experts highlighted key aspects of cybersecurity threats, risk mitigation strategies, and modern defense techniques. The session fostered a valuable exchange of knowledge, reinforcing the importance of cybersecurity in national defense and military operations.

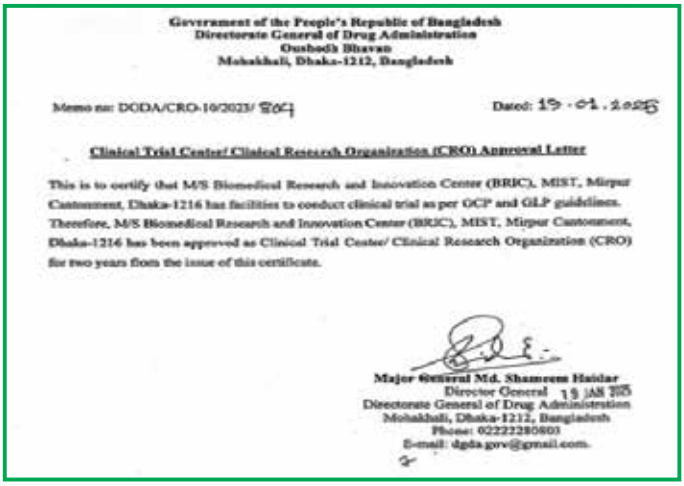
ACHIEVEMENTS

THE NON-CONDITIONAL ACCREDITATION GRANTED BY IAB FOR THE B.ARCH PROGRAMME

Marking a significant achievement for the Military Institute of Science and Technology (MIST), the Bachelor of Architecture (B.Arch) program was awarded a five-year unconditional accreditation by the Institute of Architects Bangladesh (IAB) on 29 January, 2025. This recognition reflects the program's academic excellence and adherence to national professional standards. The accreditation not only enhances the credibility of MIST's Architecture program but also opens up greater opportunities for graduates in both national and international architectural fields.

APPROVAL OF BIOMEDICAL RESEARCH AND INNOVATION CENTER (BRIC), MIST

On 19 January 2025, the Biomedical Research and Innovation Center (BRIC) received official approval from the Directorate General of Drug Administration (DGDA) to conduct biomedical research activities, placing it among the nationally recognized institutions authorized to engage in medical and clinical research. The Centre also received endorsement from the MIST Council 2025, further solidifying its institutional standing. With these approvals, BRIC is poised to play a pivotal role in advancing biomedical research and innovation, not only within MIST but also on a national and international scale.



Government of the People's Republic of Bangladesh
Directorate General of Drug Administration
Oushodh Bhavan
Mohakhali, Dhaka-1212, Bangladesh

Memo no: DGDA/CRO-10/2023/ ৪৩৫ Dated: 19 - 01 . 2025

Clinical Trial Center/ Clinical Research Organization (CRO) Approval Letter

This is to certify that M/S Biomedical Research and Innovation Center (BRIC), MIST, Mirpur Cantonment, Dhaka-1216 has facilities to conduct clinical trial as per GCP and GLP guidelines. Therefore, M/S Biomedical Research and Innovation Center (BRIC), MIST, Mirpur Cantonment, Dhaka-1216 has been approved as Clinical Trial Center/ Clinical Research Organization (CRO) for two years from the issue of this certificate.

Major General Md. Shameem Haidar
Director General 19 JAN 2025
Directorate General of Drug Administration
Mohakhali, Dhaka-1212, Bangladesh
Phone: 02222280803
E-mail: dgda.gov@gmail.com.

DR FATEMA RASHID BEST PAPER AWARD

International Conference on Electrical, Computer and Communication Engineering (ECCE 2025)

IEEE Bangladesh Section

Certificate of Achievement

Dr Fatema Rashid Best Paper Award

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Paper ID: 956

Paper Title: Multi-Level Dual Pixel Value Ordering based High-Capacity Reversible Data Hiding

Authors: Md Abdul Wahed, Hussain Nyeem

as the Dr Fatema Rashid Best Paper Award (2nd position) at 4th ECCE held on 13-15 February 2025 at CUET, Bangladesh.

Prof. Dr. Md. Rubaiyat Tanvir Hossain
Technical Chair

Prof. Dr. Mohammad Shamsul Arefin
Organizing Chair

Organized By
Faculty of Electrical and Computer Engineering (ECE)
Chittagong University of Engineering & Technology (CUET)
Chattogram-4349, Bangladesh

Major Md Abdul Wahed, Sigs, Instructor Class-B of EECE Department, was awarded the 'DR FATEMA RASHID BEST PAPER AWARD' for the paper title 'Multi-Level Dual Pixel Value Ordering Based High-Capacity Reversible Data Hiding'. The paper was presented in the International Conference on 'Electrical, Computer and Communication Engineering (ECCE) 2025' in CUET, Bangladesh from 13 to 15 February 2025.

ACHIEVEMENTS

MIST MONGOL BAROTA SHINES AT UNIVERSITY ROVER CHALLENGE (URC) 2025

The dream of Team MIST Mongol Barota to witness their rover navigating the rugged terrain of the Mars Desert Research Station (MDRS) in Utah has been years in the making, built upon the dedication and tireless efforts of numerous students and mentors. Turning this dream into reality was no easy feat- it involved overcoming significant logistical hurdles and securing vital institutional support. The turning point came with the unwavering belief and active assistance of the respected Commandant of MIST, Major General Md Nasim Parvez, BSP, ndc, afwc, psc. With his gracious approval, the team's participation in the University Rover Challenge (URC) 2025 was finally made possible. This year, a 12-member delegation from MIST represented Bangladesh in the global arena, where MIST Mongol Barota stood out among 106 teams worldwide, advancing to the final 38 and securing an impressive 14th position globally. MIST Mongol Barota also achieved the highest System Acceptance Review (SAR) score of 92.64, reflecting their exceptional technical competency and innovative design. Notably, for the first time in MIST's URC history, the respected Commandant himself was present at the competition venue, providing invaluable support and motivation.

ACHIEVEMENT OF ARMY ESSAY COMPETITION 2024

Army Training and Doctrine Command
Bangladesh Army

This is to certify that

Number: BA-6869 Rank: Lt Col Name: Md Faizul Kabir, psc, Engrs

Participated in the Army Essay Competition-2024 and secured

Fourth Position

In testimony thereof, he is awarded with this certificate.

Lieutenant General
Md Mainur Rahman, OSP, SUP, awc, psc
General Officer Commanding
Army Training & Doctrine Command (ARTDOC)

Monoshahi Cantonment
Mymensingh
Date: 22 MAY 2025

BA-6869 Lieutenant Colonel Md Faizul Kabir, psc, Engrs, GSO-1(Research) of Research and Development (R&D) Wing, MIST achieved 4th position among 111 articles in the 'ARMY ESSAY COMPETITION 2024', on the topic 'Building a Self-Reliant Bangladesh Army: The Challenges and Triumphs of Indigenous Defence Development'. It is also mentioned that he achieved 2nd position in ARMY ESSAY COMPETITION 2023.

ACHIEVEMENTS

AWARDED THE PRESTIGIOUS ICSBA FELLOWSHIP (2024–2025)

Mehedi Hasan Shuvo, a student of the Department of Architecture, MIST, received the prestigious International Centre for Study of Bengal Art (ICSBA) Fellowship 2024–2025 (funded by the Ministry of Cultural Affairs, Bangladesh) for his undergraduate thesis, 'Addressing an Oxbow Community: Creating a Sense of Belonging for the Hodi Indigenous Group'. His thesis supervisor is Assoc. Prof. Md. Sazzad Hossain, and his studio teachers are Asst. Prof. Abu Salaque, Asst. Prof. Naznia Momtaz, Asst. Prof. Kazi Zayed and Lecturer Zahid Mehedi was selected as one of five fellows from 34 submissions representing various universities and departments.

AWARDED THE HONORABLE MENTION IN THE INTERNATIONAL DESIGN COMPETITION

The entry of Tahmid Rana Khan, a student from the Department of Architecture at MIST, and his teammate has been awarded the 'HONORABLE MENTION' from over 1,000 global participants across 400 teams in the International Design Competition – 'A Place of Stories: Designing the Stall,' organized by Claymire. Their project was exhibited at the Alliance Française de Dhaka from 25 March 2025 to 27 March 2025.


A Place of Stories
Designing The Stall
International Tea Stall Design Competition

This certificate is proudly awarded to
Tahmid Rana Khan
for outstanding achievement in "Designing the Stall", recognized as
Honorable Mention
for the project Tea Trail
Entry Type: Team Entry
in appreciation of exceptional creativity, innovation, and dedication in the competition.

CLAYMIRE

BIOCITY: YOUTH FOR URBAN WETLAND REVIVAL COMPETITION

The Department of Architecture, Military Institute of Science and Technology (MIST), has proudly emerged as the winner of the "BioCity: Youth for Urban Wetland Revival" competition, held on 22 March 2025. Organized by WaterAid in partnership with the Embassy of Sweden, the competition focused on creating sustainable and innovative strategies to restore the environmentally degraded IPH pond in Mohakhali, a critical urban wetland. The winning team, Water Yard, was selected from over 140 submissions for their outstanding proposal titled "Water Yard – A Community-Led Urban Wetland Restoration Framework." The team included Tahmid Rana Khan (Department of Architecture, MIST), Md Shaidujjaman and Adiba Zaman (BUET), Himel Moulik (BUET), and Nahiduzzaman (University of Dhaka). Their solution integrated ecological, social, and economic sustainability, demonstrating a deep commitment to environmental resilience and inclusive community engagement.

ACHIEVEMENTS

SECURED 1ST PLACE IN AN OPEN DESIGN COMPETITION

Inqiad Munir Zarif and Tanveer Husain, students of the Department of Architecture at MIST, along with their teammate Sakibul Hasan Rahid from Ahsanullah University of Science and Technology, Secured '1st PLACE IN AN OPEN DESIGN COMPETITION' Eternal Voices: 'A Monument of Resistance and Remembrance' organized by Archdune. They received the award on January 2025.

RECEIVED THE 2ND PRIZE IN AN OPEN CHARRETTEE

On 08 February 2025, the Department of Architecture, UAP organized design charrettes in two categories. The open charrette received 45 entries, with teams of two. Tahmid Rana Khan, a student of the Department of Architecture, MIST, along with Saidujjaman Shuvo from BUET, received the 2nd prize.

PUBLISHED IN SHOWCASE MAGAZINE

The undergraduate thesis of Amlan Kusum Debnath, a student of the Department of Architecture, MIST, was published in the January 2025 issue of Showcase magazine. Amlan has crafted an innovative conservation plan for the historic Mohini Mill in Kushtia. Once a busy textile factory, the mill stands as a powerful symbol of Bangladesh's industrial heritage. Over time, however, it has fallen into neglect, with only the echoes of its vibrant past remaining. This project is guided by Associate Prof. Mohammad Sazzad Hossain and mentored by Assistant Professors Dr. Syeda Jafrina Nancy, Shafinaz Sameen, and Kazi Zayed Titumir from the Department of Architecture at MIST. Their collective efforts aim to breathe new life into the mill, transforming it into a space that honors its history while serving the community in a modern context.

SPORTS AND CLUB ACTIVITIES

INTER DEPARTMENT FOOTBALL COMPETITION 2025

The 'INTER DEPARTMENT FOOTBALL COMPETITION 2025' was held at the MIST Playground from 04 February 2025 to 16 February 2025 under the supervision of the Directorate of Students' Welfare. In total 12 departments of MIST participated in the tournament. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, was the Chief Guest of the final match and distributed prizes among the winners. The Civil Engineering (CE) Department became the Champion and the Aeronautical Engineering (AE) de-partment became the Runner-Up of the tournament. The competition concluded with the closing speech of the chief guest.

CAMPUS HOUR AND FAREWELL PROGRAMME 2025

The Directorate of Students' Welfare hosted the 'CAMPUS HOUR AND FAREWELL PROGRAMME 2025', which was held on 26 and 27 February 2025. To departing Level 4 students. Students from the cultural club organized various programmes on the MIST campus. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, graced as the chief guest.

MIST COMPUTER CLUB (MCC) GRAND CELEBRATION 2025

On 13 March 2025, the MIST Computer Club (MCC) witnessed a remarkable confluence of past, present and future as it hosted a grand celebration. The event took attendees on a memorable journey, culminating in a profound moment of gratitude as the club honored the architects of its success the visionary leaders, including founders, former presidents, vice presidents, executive directors, treasurers, and moderators whose unwavering dedication laid the foundation for MCC's thriving ecosystem. Their legacy of mentorship and excellence continues to inspire the entire community. The spotlight also was on MCC's outstanding performers, who have excelled in prestigious intra- and inter-university programming contests, hackathons, and numerous other platforms.

SPORTS AND CLUB ACTIVITIES

MIST ENVIRONMENT FEST 2025

The Department of Environmental, Water Resources and Coastal Engineering (EWCE) of Military Institute of Science and Technology, organized a two-day 'MIST ENVIRONMENT FEST 2025' from 28 to 29 June 2025 on the theme "Beat Plastic Pollution" aligned with this year's World Environment Day theme. The event featured a range of activities, which were held on the 28 June including Poster Presentation, GIS Case Competition, Buzzer Blitz Contest and Environmental Article Writing, all designed to foster a deeper understanding of pressing environmental issues and innovative solutions. Lt General S M Kamrul Hassan, BSP, ndc, hdmc, psc, PhD, Principal Staff Officer, Armed Forces Division, graced the event as the chief guest. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant, MIST was the Chief Patron of the programme. Prof Dr. Md Mafizur Rahman from Civil Engineering department, BUET gave the keynote address and discussed international initiatives to reduce plastic pollution. Bangladesh's sanitation problems were brought to light by Dr. Abdullah Al-Muyeed of the Department of Public Health Engineering (DPHE), who emphasized the need for better infrastructure and legislative support. In the meantime, Nayoka Martinez Bäckström from the Swedish Embassy encouraged attendees to actively participate in creating a resilient and sustainable future by discussing the significance of empowering youth leadership in the face of climate change and global uncertainties.

PROJECT COMPETITION AND POSTER PRESENTATION 2025

'PROJECT COMPETITION AND POSTER PRESENTATION 2025' held on 25 June 2025 in MIST under the overall supervision of the Electrical, Electronics, and Communication Engineering Department and the Research and Development Wing. A total of 12 Departments of MIST participated in the competition. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, was the chief guest of the event and distributed prizes among the winners.

SPORTS AND CLUB ACTIVITIES

INVENTIOUS 4.1 2025: NATIONAL TECH FESTIVAL

MIST successfully hosted 'INVENTIOUS 4.1 2025', A NATIONAL TECH FESTIVAL' held on 07-08 March 2025 organized by the MIST Innovation Club under the R&D Wing. The two-day event brought together participants from 37 universities across Bangladesh, featuring four competitive segments: Hackathon, Lead the Future, UI/UX Design Competition, and Project Showcasing. The festival aimed to drive technological innovation, foster creativity, and develop leadership skills among students in line with Fourth Industrial Revolution demands. During the closing ceremony, the Commandant of MIST, Major General Md. Nasim Parvez, BSP, ndc, afwc, psc, graced as the chief guest. The event featured insightful sessions by prominent speakers including Prof Dr Khondaker Al Mamun (IRIIC) and Mr Taufiqur Rahman (a2i), who emphasized innovation's role in national development. Competition results saw IUT claim top honors in Hackathon and Project Showcasing, while NSU dominated Lead the Future and UIU excelled in UI/UX Design.

WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY HACKATHON 2025

'WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY HACKATHON 2025' for Schools, Colleges and Universities' powered by Posts & Telecommunication Division and BTRC was hosted by MIST on 16 May 2025 at MIST Campus. The preliminary round was held online on 12 May 2025. 190 teams of various schools, colleges, universities from all over the country participated in the preliminary round. The top 35 teams have qualified for the final round. The onsite contest was held from 10 am to 4 pm. Problems were from multiple categories like: Cryptography, Digital Forensic, Networking, Web Hacking, Steganography, Reverse Engineering etc. Team Oscillating/Pandas from BUET secured 1st place. Team MIST_ Shaheed_Yamin_Forever from MIST secured 5th place in the final.

SPORTS AND CLUB ACTIVITIES

CYBER RAID 2025

The Cyber Security Club of MIST successfully hosted 'CYBER RAID 2025' on 01 February 2025, in collaboration with the IT Directorate, Bangladesh Army, and Kerberos. The event featured a Capture the Flag (CTF) competition with a prize pool of approximately 6 Lacs. After online preliminaries on 18 January 2025, 40 teams qualified for the onsite competition. After 6.5 hours of intense challenges, Team 'n006_54uad' claimed the championship, with Team 'n00b_c0rps' as the runner-up. "n00b_c0rps" as the runner-up. The top six teams received prize money and awards, with Team 'MIST_Shaheed_Yamin_Forever' securing 18th place. The awards ceremony was presided over by Major General Md Nasim Parvez, BSP, ndc, afwc, psc, the Commandant of MIST, with presentations on cybersecurity and AI by Professor Mohammed Shahriar Rahman and Shahadat Khan.

MIST CYBERTRON 2025

On 15 March 2025, the MIST Cyber Security Club proudly hosted 'MIST CYBERTRON 2025' - an electrifying event filled with learning, competition, and celebration. The day was packed with an intense Capture The Flag (CTF) competition, engaging hacking sessions, live demonstrations, and real-world security challenges, making it an significant unforgettable experience for all participants. Highlight of the event was the competitive CTF competition, where teams presented their cybersecurity expertise in solving complex challenges. After a thrilling contest, B1nary_Band1ts (Reefah Tasnia and Sumaiya Kabir) emerged as the Champions, followed by MIST_Mega_Minds (Sheikh Rafsan Jain and Tahsina Rahman Mayome) as the Runner-Up, and Ctrl+Alt+Defeat (Tamim Sharif and Saif Ahmed) securing the third place. Individual excellence was also recognized, with Reefah Tasnia (Level 3) securing the first place, followed by Ibrahim Reza (Level 3) in the second place, and As Jamil (Level 2) in third place. Additionally, top-performing Level 1 teams were acknowledged, with cyber_warriors (Noor Chowdhury and Lubaina Sakhawat) taking the first place and H4cking_K0r@_Dr!m_Vy (Nitun Kundu Swapnil and Arif Sadik) coming in second.The event' also marked a heartfelt farewell to the 2023–24 Presidential Panel Members, celebrating their leadership and unwavering contributions to the club's growth. Their dedication has paved the way for future leaders to carry forward the mission of excellence in cybersecurity and technological innovation.

MISCELLANEOUS

OBSERVANCE OF GENOCIDE DAY 2025 AT MIST

MIST observed The 'GENOCIDE DAY 2025' on 25 March 2025 to commemorate the memories of the victims of 25 March 1971. Discussions on the Great War of Liberation were organized under the supervision of Science and Humanities Department. The valiant freedom fighter Major General Jamil D Ahsan, BP (Retd), was the chief speaker of the programme. All military and civilian officers and employees working in MIST participated in the programme. A special prayer was organized for the martyrs after Zuhr.

OBSERVANCE OF INDEPENDENCE AND NATIONAL DAY 2025 AT MIST

On 26 March 2025, on 'INDEPENDENCE AND NATIONAL DAY 2025, a documentary screening followed by a special prayer was held at the Multipurpose Hall and MIST Mosque. On the same occasion, an Iftar party followed by dinner was also arranged in the evening. All Faculties and staffs were present the event.

MIST ANNUAL PICNIC 2025

'MIST ANNUAL PICNIC 2025' held on 28 February 2025. Where all the officers, faculties, staffs and their families participated in a festive environment. The Commandant and Commandant Madam inaugurated the colourful programme with the lifting of balloons. The final part of the programme was marked by a cultural event featuring the participation of MIST's family and artists from outside.

INCOMING OFFICIALS

BA-5586 Brig Gen G M Faruque
Head, EWCE Dept
Joined on 10-02-25

BA-5595 Brig Gen Muhammad Shafiqul Islam, afwc, psc
Director, ICT
Joined on 06-05-25

BA-6221 Col Tanim Shahriar, afwc, psc
Head, PME Dept
Joined on 02-02-2025

BA-7389 Lt Col Mir Hasan Shahriar Mahmud, psc, Sigs
GSO-1, ICT
Joined on 01-05-2025

BA-8793 Lt Col Md Neaz Morshed, PhD, AEC
Instr Cl-A, Sc & Hum Dept
Joined on 24-02-2025

BA-8794 Lt Col Md Ikramul Haque, PhD, AEC
Instr Cl-A, Sc & Hum Dept
Joined on 05-01-2025

BA-8912 Lt Col Md Altab Hossain, PhD
Instr Cl-A, NSE Dept
Joined on 19-02-2025

BA-8915 Lt Col Tahmina Sultana, PhD, Engrs
Instr Cl-A, Sc & Hum Dept
Joined on 05-01-2025

BA-6415 Maj Muhammad Emad Uddin Lasker, G+
GSO-2 (Mess) Admin Wg
Joined on 01-02-2025

BA-9260 Maj Md. Manwarul Haq, M Phil, PhD
Instr Cl-B, Sc & Hum Dept
Joined on 23-04-2025

BA-7177 Maj Md Riadul Islam, psc
GSO-2 (SS), Admin Wg
Joined on 01-06-2025

BA-9116 Maj Shafiul Hasan Rafi
GSO-2, DSW
Joined on 03-02-2025

BA-10451 Capt Md. Tauhidur Rahman, Sigs
GSO-3
Joined on 03-01-2025

OUTGOING OFFICIALS

BA-4154 Brig Gen Md Rezaul Awal, psc
Dean Faculty of ECE & Head EECE
Departed on 19-01-25

BA-4193 Brig Gen Md Mahfuzul Karim Majumder, ndc, psc, te
Dir Academic & Head CSE Dept
Departed on 08-05-2025

BA-5051 Brig Gen Md Kamal Uddin Komol, psc
Head, CE Dept
Departed on 06-01-2025

BA-4477 Col Md Zillal Hossain, psc
Head PME Dept
Departed on 28-02-25

BA-4246 Lt Col Sayeed Hossain, Sigs
GSO-1, ICT
Departed on 28-05-24

BA-7133 Lt Col Md Munir Hossain, M Phil, AEC
Instr Cl-A, Sc & Hum Dept
Departed on 01-03-25

BA-7413 Lt Col Mst Tahmina Bushara, psc
GSO-1, DSW
Departed on 14-05-25

BA-8910 Lt Col Palash Kumar Sarker, Sigs
Instr Cl-A, Sc & Hum Dept
Departed on 01-03-25

BA-8916 Lt Col Md Amirul Islam, PhD, Engrs
Instr Cl-A, Sc & Hum Dept
Departed on 05-03-25

BA-8918 Lt Col Md Nur-E-Mostafa, Engrs
Instr Cl-A, Sc & Hum Dept
Departed on 19-01-25

BA-8918 Lt Col Md. Faisal Kader
Instr Cl-A, NSE Dept
Departed on 22-01-25

BA-5576 Maj Md Soebur Rahman, PhD, Engrs
Instr Cl-B, CE Dept
Departed on 14-04-2025

BA-5690 Maj Md Mokhlesur Rahman, psc, Sigs
Instr Cl-A, CSE Dept
Departed on 06-03-25

BA-7885 Maj Md Shah Alam, AEC
Instr Cl-B, Sc & Hum Dept
Departed on 01-03-25

BA-7925 Maj Ahmed Muhtasim Taj
GSO-2 (Database Admin) Admin Wg
Departed on 16-01-25

BA-8073 Maj Md Rezaur Rabby, G, Arty
GSO-2 (Mess) Admin Wg
Departed on 19-06-25

BA-8356 Maj Adib Bin Akram
GSO-2, MIST Sectt
Departed on 10-03-25

BA-8800 Maj Tasmia Hassan Saika
Instr Cl-B, EECE Dept
Departed on 10-03-25

BA-8801 Maj Fariha Tabassum, Sigs
GSO-2, MIST Sectt
Departed on 29-06-25

PUBLICATIONS
JOURNAL ARTICLE

CE DEPARTMENT

- Prof Dr. G M Jahid Hasan published a journal article titled 'Assessing the correlation between sea level rise, temperature, and erosion-accretion along the coastline of Bangladesh' in Discover Geoscience Journal (Publisher: Springer) on 04 March 2025.
- Lt Col Khondaker Sakil Ahmed, along with 04 co-authors published a journal article titled 'Influence of Shape Memory Alloy in Seismic Response of Coupled Shear Wall of Concrete Structures' in the International Journal 'Heliyon' in January 2025.
- Lt Col Khondaker Sakil Ahmed, PhD along with 04 co-authors published a journal article titled 'Predicting shear strength of hollow pretensioned spun precast concrete pile using machine learning models' in the International Journal 'Structures' in March 2025.
- Lt Col Khondaker Sakil Ahmed, PhD along with 03 Co-authors published a journal article titled 'Soil Bearing Capacity Estimation using Plate Load Test for Station 5 of MRT Line-6 at Dhaka: A Case Study' in the International Journal 'Indian Geotechnical Journal' in February 2025.

CSE DEPARTMENT

- Lt Col Nazrul Islam, PhD, Sigs, along with four co-authors published a journal article titled 'Identifying Key Indicators to Develop a Novel Mobile Application for Early Screening of Postpartum Depression in Developing Countries' published in BMC Health Services Research on 20 March, 2025.

EECE DEPARTMENT

- Brig Gen Md Rosaidul Mawla, ndc, psc along with two co-authors published a journal article titled 'Comparative analysis of VVER-1200 core inventory considering non-uniform and uniform reactor core power distribution' in the International Journal 'Nuclear Engineering and Technology' on 14 April 2025.
- Maj Kazi Newaj Faisal, EME along with two co-authors published a journal article titled 'Time-Series Forecasting Using SVMD-LSTM: A Hybrid Approach for Stock Market Prediction' in the International Journal of 'Probability and Statistics' in February 2025.
- Maj Md. Abdul Wahed, Sigs 'High-capacity reversible data hiding with iterative dual pixel value ordering' in the International Journal of 'Alexandria Engineering Journal' on 09 March 2025 (Q1).
- Lecturer Tareque Bashar Ovi along with three co-authors published a journal article titled 'FocusU2Net: Pioneering dual attention with gated U-Net for colonoscopic polyp segmentation' in the International Journal of 'Computers in Biology and Medicine' February 2025 (Q1).
- Lecturer Md.Tanjil Islam Aronno along with eight co-authors published a journal article titled 'LipBengal: Pioneering Bengali lip-reading dataset for pronunciation mapping through lip gestures' in the International Journal of 'Data in Brief' February 2025 (Q2).

PUBLICATIONS
JOURNAL ARTICLE

ME DEPARTMENT

- Md Insiat Islam Rabby and 05 co-authors published a Journal article titled 'Computational Study of Thermofluidic Characteristics of Al2O3-Cu Hybrid Nanofluids in Backward Facing Step Channel with Varying Step Angles' in the 'A Cell Press Journal' published on 28 February 2025.
- Maj Md Anisur Rahman and 05 co-authors published a Journal article titled 'Basalt-Silk Fiber Reinforced PLA Composites: Effect of Graphene Fillers and Stacking Sequence' in the Elsevier Journal published in March 2025.
- Lec Ramim-Ul Hasan and 05 co-authors published a Journal article titled 'Material flow analysis and risk evaluation of informal and formal E-waste recycling processes in Bangladesh: Towards sustainable management strategies' in Journal of Cleaner Production" an international journal by Elsevier in March 2025.
- Asst Prof Dr. Ahmed Afif Bin Abedin and 03 co-authors published a Journal article titled 'Study of Ba1-xNaxCe0. 7Zr0. 1Y0. 15Zn0. 05O3-δ (x= 0.1, 0.3 & 0.5) structures as electrolyte for proton conducting solid oxide fuel cell' in Journal of 'AIP Conference Proceedings' published on April 2025.
- Lec Ahmed A. Saqafi and 05 co-authors published a Journal article titled 'Investigation of the Mechanical Properties of Repurposed-Net-Bag Reinforced Plastic' in Journal of 'MIJST' published on 30 June 2025.
- Asst Prof Dr. Muammaer Din Arif, Lec Rashidun Nessa Chowdhury and 02 co-authors published a Journal article titled 'Numerical simulation of thermal barrier coating in gas turbine combustion chamber liner: a comparative study of YSZ and PSZ' in Journal of 'Materials Research Express' Published on 21 Jan 2025.

BME DEPARTMENT

- Professor Dr. Md Enamul Hoque, 2xco-auther published a Journal article titled 'Biomedically vibrant and cost- effective biocomposite bone plate–development and testing' in the reputed journal named 'Hybrid Advances' (Elsevier)on 01 March 2025.
- Professor Dr. Md Enamul Hoque, 8xco-auther published a Journal article titled 'Effects of systemic challenges on agricultural development systems: a systematic review of perspectives' in the reputed journal named 'Sustainable Futures' (Elsevier) on 27 March 2025.
- Professor Dr.Md Enamul Hoque, 5xco-auther published a Journal article titled 'Exploring Agricultural Circular Economy Models in Emerging Bioecosystems: Opportunities and Challenges' in the reputed journal named 'Cogent Food & Agriculture' on 22 May 2025
- Assistant Professor Dr. Md Asadur Rahnam & 5xco-author published a Journal article titled 'Effects of systemic challenges on agricultural development systems: a systematic review of the reputed 'AIP Advances' on 25 February 2025.
- Assistant Professor Dr. Md Asadur Rahnam & 4xco-author published a Journal article titled 'Lung-AttNet: An Attention Mechanism based CNN Architecture for Lung Cancer Detection with Federated Learning' in the reputed 'IEEE Access' on 08 March 2025.
- Lecturer Md.Tobibul Islam & 9xco-author published a Journal article titled 'Metamaterial Wave Absorber using quasi-rectangular symmetric split ring resonators for harvesting energy in visible, UV-A, and UV-C regions' in the 'Heliyon' journal on 05 March 2025.

PUBLICATIONS

JOURNAL ARTICLE

PME DEPARTMENT

- Li Z., Fujii Y., Matsumoto H., Dzimunya N., Kodama J., Kiyama T., Alam AKM B. (2025), Roadway Deformation of Room-and-Pillar Mining at Kushiro Colliery, Japan, Geotechnical and Geological Engineering.
- Alam AKM B., Fujii Y., Li Z., Dipu N H., Islam M T., Razo S A. (2025), The Influence of Silt Layer Orientation on Slope Stability in Shale Formations, MIST International Journal of Science and Technology.
- Alam AKM B., Fujii Y., Li Z., Dipu N H., Chakma T (2025), Hydration-induced fractures in shale with silt layers: A perspective on slope stability, Geohazard Mechanics, (In press).
- Md. Shameem Hossain, Md. Nasirul Islam, Khaza Shahriar, Mohammad Mujtaba Hasan, Md. Sohag Hossain "The role of solar thermal hydrogen production technologies in future energy solutions: A review" Journal of Energy Conversion and Management.
- Md. Asiful Islam, Waraka Bin Ismail, Md. Nasirul Islam*, Mohammad Mujtaba Hasan, 'Gas Chimney Delineation and Prospect Identification from Seismic Data Using Artificial Neural Networks in an Area of North Sea, Netherlands', Journal of Petroleum & Coal.

EWCE DEPARTMENT

- Professor Dr Abul Fazal M. Saleh, EWCE Department of MIST published a journal paper in June 2025 titled 'Environmental Flow Estimation for the Jamuna River' in Tech J. River Res. Inst. 17 (1), pp.32-42.

Arch DEPARTMENT

- Lecturer Arfa Morshed published a Journal article titled 'Evaluating Publicness of Public Space and Its Transforming Pattern: A Case of the Inner Courtyard at Khulna New Market' published in the 'FARU Journal' January 2025.
- Lecturer Arfa Morshed published a Journal article titled 'Analyzing Numerical Simulation of Ventilation System and Filter Membrane: The Exposure of Airborne Nanoparticles in Health Interior Space' published in the 'FARU Journal' January 2025.

CONFERENCE PAPER

EECE DEPARTMENT

- Lt Col Md Aminul Islam, PhD, EME along with three co-authors published a conference paper titled 'Dual-Band Adaptive GPS Antennas for Real-Time Spoofing Mitigation' CUET, Bangladesh 13-14 Feb 2025 International Conference on Electrical, Computer and Communication Engineering (ECCE) 2025.
- Lt Col Md Aminul Islam, PhD, EME along with three co-authors published a conference paper titled 'Performance Evaluation and Applications of Silicon-Based Dielectric Resonator Antennas for 70 GHz Wireless and Body-Centric Systems' CUET, Bangladesh 13-14 February 2025, International Conference on Electrical, Computer and Communication Engineering (ECCE) 2025.
- Maj Shah Mohazzem Hossain, PhD, Sigs 'Modeling of IEEE-2800 Complaint Type-3 Wind Farm for Short Circuit Studies' in February 2025 Dallas, TX, USA '2025 IEEE Texas Power and Energy Conference (TPEC)'.
- Maj Kazi Newaj Faisal, EME along with two co-authors published a conference paper titled 'Electroencephalogram-based Unified Approach for Multiple Neurodevelopmental Disorders Detection in Children Using Successive Multivariate Variational Mode Decomposition' in IEEE Transactions on Cognitive and Developmental Systems.

PUBLICATIONS

CONFERENCE PAPER

EECE DEPARTMENT

- Asst. Professor. Md Ahsan Kabir along with four co-authors published a conference paper titled 'Performance Evaluation of Grid-Tied PV System in Metrorail Stations: A Case Study in MRT-6, Dhaka' in 2024 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE), Chennai, India.
- Lecturer Zia Md Galib Ul Alim along with three co-authors published a conference paper titled 'A Machine Learning Approach for Classification and Identification of Important ROIs for ADHD-I' in '2025 International Conference on Electrical, Computer and Communication Engineering (ECCE)' CUET, Bangladesh 13-14 February 2025.
- Lecturer Tareque Bashar Ovi along with five co-authors published a conference paper titled 'Optimizing Monocular Depth Estimation through Bi-Level Nested Architecture Integrationin' in International Conference on Electrical, Computer and Communication Engineering (ECCE) 2025, CUET, Bangladesh 13-14 February 2025.
- Lecturer Tareque Bashar Ovi along with five co-authors published a conference paper titled 'Utilizing Reverse Attention for Enhanced Mitochondria Segmentation in Microscopic Images' CUET, Bangladesh 13-14 February 2025 International Conference on Electrical, Computer and Communication Engineering (ECCE)' 2025.
- Lecturer Tareque Bashar Ovi along with five co-authors published a conference paper titled 'Advancing Road Lane Detection in Autonomous Driving through Multistage Attention Network' CUET, Bangladesh 13-14 Feb 2025 International Conference on Electrical, Computer and Communication Engineering (ECCE) 2025.
- Lecturer Tareque Bashar Ovi along with five co-authors published a conference paper titled 'Depth-PVT: Pyramid Vision Transformer with Channel Attention for Depth Estimation' CUET, Bangladesh 13-14 Feb 2025, International Conference on Electrical, Computer and Communication Engineering (ECCE) 2025.

PME DEPARTMENT

- Md. Nasirul Islam*, Mohammad Mujtaba Hasan, Ranggan Mouni Mandal, Mahfuj Ahmed, Shehoba Yasmin1, Shakil Ahmed Razo, A T M Masum "Economic and Prospect Analysis of Geothermal Energy Production from Abandoned Petroleum Wells: A Brief Review", 8th International Conference on Mechanical, Industrial and Energy Engineering 2024 02-04 January, 2025, Khulna, BANGLADESH.
- Md. Anonno Habib Akash, Md. Shameem Hossain*, Md. Nasirul Islam, Kazi Siamul Islam and Shamima Yesmin Sony "Simulation of Biomass Gasification Model for Syngas Production from Wood Residue and Food Wastes", 8th International Conference on Mechanical, Industrial and Energy Engineering 2024 02-04 January, 2025, Khulna, Bangladesh.

EWCE DEPARTMENT

- Lecturer Sumaya Tasnim Rasna, EWCE Department of MIST published a conference paper in February 2025 titled, 'Assessment of Groundwater Vulnerability Considering Water Quality Using Drastic Model: A Case Study in Narayanganj City Corporation' in 10th International Conference on Water and Flood Management (ICWFM-2025), IWFM, BUET.
- Lecturer Nishat Islam, EWCE Department of MIST published a conference paper in February 2025 titled, 'Identifying Erosion Hotspots and Assessing their Impacts on the Communities at Jamuna-Teesta Confluence' in 10th International Conference on Water and Flood Management (ICWFM-2025), IWFM, BUET.

Chief Patron	: **Major General Md Nasim Parvez, BSP, ndc, afwc, psc** Commandant, MIST
Editor in Chief	: **Colonel Ashfaquer Rahat Siddique, BGBMS** Director, Research and Development Wing, MIST
Editor	: **Lieutenant Colonel Md Faizul Kabir, psc, Engrs** General Staff Officer-1 (Research) Research and Development Wing, MIST
Asst Editor	: **Major Kazi Imtiaz Kabir** General Staff Officer-2 (ARSTC) Research and Development Wing, MIST
	Major Md. Manwarul Haq, M Phil, PhD Instructor Class-B Science and Humanities Department, MIST
Graphic Design	: **Nurun Naher** Sub Assistant Engineer Research and Development Wing, MIST
Photography	: **Sergeant Md. Noor-A-Alam** **Md. Zabed Hossain** **Md Rabbi Hasan**
Published By	: Research and Development Wing, MIST
Address	: Mirpur Cantonment, Dhaka-1216
Website	: www.mist.ac.bd
Email	: info@mist.ac.bd