



MIST

MILITARY
INSTITUTE OF
SCIENCE AND
TECHNOLOGY,
BANGLADESH

Newsletter



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
- Seminar, Conference, Workshop, and Short Course
- Delegations and Visits
- Collaborations and Agreements
- Achievements
- Sports and Extra-Curricular Activities
- Miscellaneous
- Incoming Officials
- Outgoing Officials
- Publications

COMMANDANT'S FOREWORD

The establishment of the Military Institute of Science and Technology (MIST) in 1998 has remained steadfast in its mission to serve as a 'Centre of Excellence' in science, engineering and technology education. Over the years, MIST has grown into a premier institution, fostering innovation, discipline and academic excellence. The newsletter serves as a mirror of our journey, capturing the achievements, academic activities, research endeavor and vibrant social and games and sports activities that define the spirit of our institute. This newsletter reflects the dedication of our faculty, staff and students, whose collective efforts continue to strengthen MIST's reputation as a hub of excellence.



The 47th issue of Newsletter highlights significant milestones, scholarly contributions and institutional initiatives undertaken from July-December 2025. I extend my heartfelt appreciation to the editorial board for their dedicated efforts. May this newsletter inspire us to pursue excellence and uphold the values of MIST.

44TH GOVERNING BODY MEETING OF MIST



The '44th MEETING OF THE GOVERNING BODY OF MIST' was held on 08 July 2025. The meeting was chaired by Commandant, MIST Major General Md Nasim Parvez, BSP, ndc, afwc, psc. Major General Md Hasan Uz Zaman, ndu, afwc, psc, M Phil, Engineer-in-Chief, Bangladesh Army, attended the meeting as Vice Chairman. Representatives from the Ministry of Education, Ministry of Defence, Ministry of Finance, Armed Forces Division, three Services Headquarters, BMA, BNA,

BAFA, academicians of BUET, BUP, and Dhaka University, along with the officers of MIST were also present in the meeting. Discussions were held on the probable expenditure of the contractual faculty members and staffs in the 2024-2025 (fall term) session, seminar, conference, workshop, and training etc.

86TH AND 87TH ACADEMIC COUNCIL MEETING OF MIST

The '86th and 87th ACADEMIC COUNCIL MEETING OF MIST' were convened on 27 August and 04 December 2025 at MIST. The session was presided over by the Commandant MIST, Major General Md Nasim Parvez, BSP, ndc, afwc, psc. The council was attended by eminent academicians and representatives from BUET, University of Dhaka, Ministry of Education, Ministry of Defence, Bangladesh University of Professionals, three Services Headquarters, BMA, BNA, and BAFA as well as the Deans and Heads of various wings and departments of MIST. As the highest academic body of the institute, the Academic Council deliberated on key academic issues, policy guidelines, and strategic decisions to ensure the continued growth of MIST in education and research.



42ND AND 43RD COMMITTEE FOR ADVANCED STUDIES AND RESEARCH (CASR) MEETING OF MIST



The '42nd and 43rd COMMITTEE FOR ADVANCED STUDIES AND RESEARCH (CASR) MEETING' were held on 11 September and 20 November 2025. 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 the postgraduate students, including the section of supervisors, research proposals, research costs, and approval of different boards were discussed in the meeting.

3RD INDUSTRIAL ADVISORY PANEL (IAP) MEETING OF BME DEPARTMENT



The Department of Biomedical Engineering (BME), MIST, successfully conducted the '3rd INDUSTRIAL ADVISORY PANEL (IAP) MEETING' on 22 October 2025. The session proved to be highly productive, fostering insightful discussions on aligning academic training with evolving industry needs. The distinguished panel members shared valuable feedback on the department's academic curriculum, ongoing research initiatives, and infrastructural advancements.

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

The Department of Nuclear Science and Engineering (NSE), MIST successfully conducted the '1st INDUSTRIAL ADVISORY PANEL (IAP) MEETING' on 20 November 2025 at the NSE Department, MIST. The meeting was attended by distinguished representatives from nuclear, power, pharmaceutical, engineering, and industrial sectors, along with faculty members of the department. The objective of the meeting was to strengthen academia-industry collaboration, ensure curriculum relevance, and support continuous improvement of the Nuclear Engineering program in line with industry requirements.



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



The '1st INDUSTRIAL ADVISORY PANEL (IAP) MEETING' was held on 15 December 2025 at the Industrial and Production Engineering Department. Representatives from academia and industry actively participated in the meeting. Key issues related to the existing curriculum and the performance of graduates were discussed in details. Several new perspectives and concerns were raised by the participants, highlighting areas for improvement. A good number of these

issues will be addressed at the departmental level. The meeting proved to be highly productive and offered valuable insights that will contribute to the continuous enhancement of academic and industry alignment.

SEMINAR, CONFERENCE, WORKSHOP, AND SHORT COURSE

3RD INTERNATIONAL CONFERENCE ON MECHANICAL ENGINEERING AND APPLIED SCIENCES (ICMEAS) 2025



The '3rd INTERNATIONAL CONFERENCE ON MECHANICAL ENGINEERING AND APPLIED SCIENCE (ICMEAS 2025)' was held at Military Institute of Science and Technology (MIST) from 17 - 19 July 2025. At this conference, researchers and professionals from the United States, the United Kingdom, Brunei, Egypt, Canada, Ireland, Japan, Kazakhstan, Malaysia, Australia, India, Singapore, China, and Bangladesh participated. The conference

focused on recent research, materials engineering, renewable energy, AI, industrial IoT, thermal engineering, aerospace and avionics, aerodynamics, hydrodynamics, fluid dynamics and CFD, mechatronics, robotics, and other related fields. At this conference, 289 papers were submitted from Bangladesh and 8 other countries, of which 176 were presented. Three day session included 30 technical sessions, 6 keynote sessions, poster presentation, and project showcase, covering a broad range of topics in Mechanical Engineering. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant, MIST, graced the inauguration ceremony on 17 July 2025 as Chief Patron. General Waker-Uz-Zaman, SBP, OSP, SGP, psc, Chief of Army Staff, Bangladesh Army, graced the closing ceremony on 19 July 2025 as the chief guest and awarded the best paper presenters at the seminar.

4TH IEEE INTERNATIONAL CONFERENCE ON ROBOTICS, AUTOMATION, ARTIFICIAL-INTELLIGENCE, AND INTERNET-OF -THINGS (RAAICON)

The '4th IEEE INTERNATIONAL CONFERENCE ON ROBOTICS, AUTOMATION, ARTIFICIAL INTELLIGENCE AND INTERNET-OF-THINGS (RAAICON)' was also held from 27 to 28 November 2025 at MIST. The conference was inaugurated on 27 November 2025 by Major General Md Nasim Parvez, BSP, psc, Commandant of MIST, as the chief guest. Jointly organized by the MIST Robotics Club and the IEEE Bangladesh Section, RAAICON served as a prominent academic forum fea-



turing technical paper presentations, keynote speeches, and specialized sessions on robotics, automation, artificial-intelligence, and IoT. The integration of conference sessions with Robolution activities facilitated meaningful engagement among students, researchers, and industry professionals, further strengthening MIST's contribution to technological research and innovation.

SEMINAR, CONFERENCE, WORKSHOP, AND SHORT COURSE

4TH INTERNATIONAL SYMPOSIUM ON QUALITY ASSURANCE IN ENGINEERING EDUCATION



The Military Institute of Science and Technology (MIST) participated in the '4th INTERNATIONAL SYMPOSIUM ON QUALITY ASSURANCE IN ENGINEERING EDUCATION THROUGH ACCREDITATION', held at the Hotel Inter-Continental Dhaka, on 08 to 09 December 2025. Total 16 participants from 11 academic departments, along with representatives from IQAC-MIST, attended the symposium, reflecting MIST's strong institutional commitment to quality enhancement and continuous improvement in engineering education.

The symposium was jointly organized by the Bangladesh Accreditation Board for Engineering and Technology (BAETE) and the Institution of Engineers, Bangladesh (IEB).

SEMINAR ON CAUSES AND PREVENTION OF INLAND MARINE ACCIDENTS

The Department of Naval Architecture and Marine Engineering (NAME), MIST, organized a seminar titled 'CAUSES AND PREVENTION OF INLAND MARINE ACCIDENTS' on 14 July 2025. The seminar was attended by Commandant Major General Md Nasim Parvez, BSP, ndc, afwe, psc. Distinguished speakers included Commodore Md. Shafiu Bari, nde, psc, BN, Commodore Arif Ahmed Mostofa, nup, ndc, afwc, psc, BN, Professor Dr. Mir Tareque Ali, and Lt Col Muhammad Rabiul Islam, PhD, EME, who shared insights on accident causes, prevention strategies, case studies, and emerging safety technologies. Attended by students and faculty at all levels, the seminar emphasized the importance of safety in inland marine operations.



SEMINAR ON NANOTECHNOLOGY IN BIOMEDICINE



On 04 September 2025, the Department of Biomedical Engineering (BME), MIST, hosted a seminar on 'NANOTECHNOLOGY IN BIOMEDICINE'. The event drew students, faculty, and professionals, with Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, as the chief guest. The keynote was delivered by Prof Dr. Md. Sharif Hosain of Jahangirnagar University, who presented his research on the clinical applications of nanotechnology, including targeted drug delivery, diagnostics, imaging, and regenerative therapies.

SEMINAR, CONFERENCE, WORKSHOP, AND SHORT COURSE

SEMINAR ON RESILIENCE IN THE INFORMATION DOMAIN: TOOLS TO ADDRESS MISINFORMATION AND DISINFORMATION ON SOCIAL MEDIA



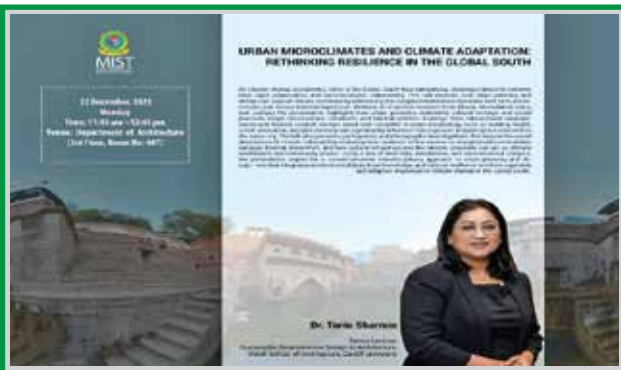
The Military Institute of Science & Technology (MIST) hosted a timely and high-profile seminar titled ‘RESILIENCE IN THE INFORMATION DOMAIN: TOOLS TO ADDRESS MISINFORMATION AND DISINFORMATION ON SOCIAL MEDIA’ on 03 September 2025. The event was jointly organized by the Armed Forces Division (AFD) and the Department of Computer Science & Engineering (CSE), MIST. The event was graced by Lieutenant General (Retd) Abdul Hafiz, ndc, psc Special Assistant to the Chief Adviser on Defence and National Reconciliation Affairs, as the chief guest, and Lieutenant General S M Kamrul Hassan, BSP, ndc, hdmc, psc, Principal Staff Officer of the Armed Forces Division, as the special guest.

SEMINAR ON HONESTY AND ENGINEERING ETHICS

The Department of Science and Humanities of MIST hosted a seminar titled ‘HONESTY AND ENGINEERING ETHICS’ on 22 December 2025. The seminar aimed to promote ethical values and moral responsibility among future engineers. The programme emphasized moral development as a foundation for personal integrity and national progress. Professor Dr. Mohammad Rafiqul Islam, Vice Chancellor of the Islamic University of Technology (IUT), delivered the keynote address, highlighting the importance of ethics in engineering education and professional practice and stressing ethical decision-making as essential for sustainable technological advancement. Professor Dr. Mohammad Kaykobad of BRAC University followed with an engaging presentation on AI and Engineering Ethics, addressing contemporary challenges and responsibilities in the era of artificial intelligence.



SEMINAR ON URBAN MICROCLIMATES AND CLIMATE ADAPTATION: RETHINKING RESILIENCE IN THE GLOBAL SOUTH



Dr. Tania Sharmin, Senior Lecturer in Sustainable Environmental Design at Cardiff University, led a thought-provoking seminar titled ‘URBAN MICROCLIMATES AND CLIMATE ADAPTATION: RETHINKING RESILIENCE IN THE GLOBAL SOUTH’. Dr. Sharmin's talk explored the escalating challenges faced by cities in the Global South, such as extreme heat, rapid urbanization, and socio-economic vulnerability due to climate change. Drawing on empirical research from cities like Dhaka, Ahmedabad, Cairo, and Jodhpur, she

highlighted how urban form, materiality, cultural heritage, and social practices influence microclimatic conditions and thermal comfort.

UNIVERSITY ACTIVATION PROGRAMME



The Military Institute of Science and Technology (MIST) hosted the 'UNIVERSITY ACTIVATION PROGRAMME' organized under the Innovation Design and Entrepreneurship Academy (iDEA) Project of the ICT Division on 14 August 2025. Mr. Shish Haider Chowdhury, ndc, Secretary of the ICT Division, attended the programme as the chief guest, while Major General Md. Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, was present as the special guest. MIST Innovation Club organized

the in-house 'iDEA' competition, featuring 23 student teams, from which the top 3 teams were selected to present their innovative proposals during the programme. The programme was successfully coordinated by MIST's Research and Development (R&D) Wing and MIST Innovation Club (MIC).

ATTENDING THE ANNUAL MEETING OF THE NUCLEAR SECURITY EDUCATION NETWORK (INSEN), JAPAN

Lieutenant Colonel Md. Altab Hossain, PhD, EME attended the 'ANNUAL MEETING OF THE NUCLEAR SECURITY EDUCATION NETWORK (JAPAN)' from November 10–14, 2025. He strengthened research collaboration with the IAEA and other experts globally, promoting joint academic and innovation initiatives. He also becomes Vice Chair, Asia-Pacific Region, marking academic and research collaboration on nuclear security education.



WEBINAR ON CAREER IN AEROSPACE AND AVIATION INDUSTRIES



The Department of Aeronautical Engineering (AE), MIST, successfully conducted a webinar titled 'CAREER IN AEROSPACE AND AVIATION INDUSTRIES' under the banner of the newly established MIST Student Branch of the American Institute of Aeronautics and Astronautics (AIAA) on 27 July 2025. The session featured two distinguished alumni: Mr. Suvesa Chakraborty, APQP (Advanced Product Quality Planning) Lead & Senior Supplier Quality Engineer at The Boeing Company, and Dr. Akhter Mahmud Nafi, Research Scientist at the University of New Hampshire and Integral team member of NASA's GLIMR Mission.

LECTURER SESSION ON APPLICATION OF ISOTOPE TECHNIQUES IN GROUNDWATER MANAGEMENT IN MINES



The Department of Petroleum and Mining Engineering (PME), MIST, organized a guest lecture on ‘APPLICATION OF ISOTOPE TECHNIQUES IN GROUNDWATER MANAGEMENT IN MINES’ on 24 July 2025. The session was conducted by Dr. Md. Moniruzzaman Monir, Principal Geologist, INST, BAEC. A total of 129 students from various levels and 10 faculties participated in the session with great enthusiasm. The lecture focused on the application of isotopic techniques to identify mine-related contaminants, trace their sources, understanding their impacts, and outlining possible mitigation strategies. The session concluded with an engaging question-and-answer segment in which students actively interacted with the speaker to deepen their understanding of the subject.

LECTURE SESSION ON INCLUSIVITY IN THE BUILT ENVIRONMENT

On 26 August 2025, the Department of Architecture, MIST, hosted a lecture session titled ‘INCLUSIVITY IN THE BUILT ENVIRONMENT’, featuring Dr. Mohammad Faruk, Associate Professor at BRAC University, as the keynote speaker. The session brought together students and faculty members to explore the principles and practices of inclusive design, emphasizing how thoughtful, participatory approaches can create spaces that are accessible, equitable, and responsive to diverse communities. An interactive Question and Answer session followed, during which participants discussed challenges and opportunities in applying inclusive design principles in real-life urban projects.



STUDIO PROJECT ON DESIGNING FOR HEALING: SPECIALIZED HOSPITAL DESIGN IN JOLSHIRI ABASHON PROJECT



Students of Level-05, Department of Architecture, MIST, have undertaken the design of six different types of specialized hospitals: Cardiac, Kidney and Urology, Children’s, Eye, Burn and Plastic Surgery, and Orthopedic hospitals as part of their ‘Design Studio IX (ARCH 5102)’ in Fall 2025. Guided by Assistant Professor Mustafizur Rahaman, Assistant Professor Naznia Momtaz, and Lecturer Nafisa Tasnim, the studio titled ‘DESIGNING FOR HEALING’ focused on developing sensitive, functional, and sustainable healthcare environments responding to patient, staff,

and environmental needs. The project sites were located within various designated hospital plots of the ‘Jolshiri Abashon Project’, allowing students to integrate real-site conditions, technical standards, and contextual design thinking into their architectural proposals.

SEMINAR, CONFERENCE, WORKSHOP, AND SHORT COURSE

JURY, FINAL PROJECT OF LEVEL 3, TERM 1, WITH DISTINGUISHED FOREIGN JURORS



The final jury for the Level 3, Term 1 Design Studio at the Department of Architecture, MIST, was held on 23-24 September 2025, with an esteemed panel of external jurors and studio faculty members. The jury panel included: Dr. Stephen Schrapel, Senior Associate, Swanbury Penglase Architects; Adjunct Fellow, University of Adelaide, Australia Dr. Shaimaa Samir Kamel Ashour, Professor and Dean, Architecture and Interdisciplinary Studies, Arab Academy for Science, Technology, and Maritime Transport, Cairo, Egypt, Ar.

Hector Abarca Torres, Architect AIBC, Member, Architectural Association of British Columbia, Canada. Alongside the studio faculties: Assoc. Prof. Md Sazzad Hossain, Lecturer Anika Sharmila, Lecturer Afeefa Adeeba Rahman, Lecturer Iqra Binte Zamil. The session featured presentations of student's design projects developed throughout the semester, showcasing innovative and contextually responsive architectural ideas.

DESIGN EXPO – AN EXHIBITION OF PROJECTS FROM DESIGN STUDIO I

The Department of Architecture, MIST, organized 'DESIGN EXPO – EXHIBITION OF DESIGN STUDIO I' on 25 September 2025, showcasing the creative works of first-year students from Level 1, Term 1. The exhibition presented selected projects developed under the Design Studio I course, reflecting the students' exploration of visual principles, spatial organization, and form generation. The event featured a diverse range of works from geometric and nature-derived compositions to color and 2.5D spatial studies — demonstrating the students' early understanding of design thinking and architectural representation. The exhibition was inaugurated by the Head of the Department of Architecture, who visited each display and interacted with the students about their design processes and inspirations.



VLSI IC DESIGN COURSE



The Department of Electrical, Electronic, and Communication Engineering (EECE) at the MIST officially inaugurated its first-ever 'VLSI IC DESIGN COURSE' on 14 December 2025. The programme, organized by the MIST VLSI Training Centre, was formally launched through an opening ceremony held at the VLSI Laboratory. This four-month, weekend-based certification programme is being conducted in collaboration with Neural Semiconductor Limited. The inaugural cohort comprises 39 participants from 23 universities across Bangladesh, reflecting strong nationwide interest in advanced semiconductor education and research.

SHORT COURSE ON EXTENDED 3D ANALYSIS OF BUILDING SYSTEMS (ETABS)



The Department of Environmental, Water Resources, and Coastal Engineering (EWCE) of the Military Institute of Science and Technology (MIST) successfully organized a five-day short course on 'EXTENDED 3D (THREE-DIMENSIONAL) ANALYSIS OF BUILDING SYSTEMS (ETABS)' from 09 to 13 November 2025. During the programme, participants gained practical knowledge on the fundamentals of ETABS software, developed 3D structural models, and enhanced their decision-making skills for real-life engineering prob-

lems, while also boosting their research and career development potential. The course was conducted by distinguished instructors Professor Major Md. Soebur Rahman, PhD, PEng, Engrs, CE, MIST; Lecturer Gazi Algaj Hossain, CE, MIST; and Lecturer Nurul Islam Zihad, CE, MIST, whose expertise greatly enriched the learning experience.

SHORT COURSE ON DELFT3D

The Department of Environmental, Water Resources and Coastal Engineering (EWCE) of the Military Institute of Science and Technology (MIST) successfully organized a five-day short course on DELFT3D from 16 to 20 November 2025. Throughout the programme, participants gained extensive hands-on experience in numerical modeling, hydrodynamic analysis, and sediment transport processes, significantly enhancing their academic knowledge and professional skills. The course was conducted by distinguished instructors



Professor Dr. Anisul Haque and Mr. Mursalin Ibn Mahbub from the Institute of Water and Flood Management (IWFM), Bangladesh University of Engineering and Technology (BUET).

JOB FAIR 2025



As part of the institute's career advising efforts, the 'MIST JOB FAIR 2025' was organized by the Directorate of Students' Welfare (DSW) on 09-10 July 2025. Lieutenant General Mohammad Shaheenul Haque, OSP, BSP, ndc, hdmc, psc, Commandant, National Defence College, graced the occasion as the chief guest. It is an on campus recruitment event organized by MIST, where companies from various industries visited the campus to meet, interview, and recruit graduating students and alumni.

NSE ALUMNI MEET 2025



The Department of Nuclear Science and Engineering (NSE), MIST, successfully organized the '1st NSE ALUMNI MEET 2025' on 16 November 2025 at MIST. Alumni from NSE 01 to NSE 07 batches participated in the event, along with respected faculty members, creating a warm and engaging atmosphere. The event served as a meaningful bridge between the past and the present, strengthening the bond between graduates and the department. It also provided a valuable platform to share experiences,

foster collaboration, and inspire current academic initiatives. Address by the Head of the Department, and speeches by the alumni, and senior faculty members and professors were held on syllabus relevance and industry integration, followed by an open forum with alumni.

IPE ALUMNI MEET 2025

The Department of Industrial & Production Engineering (IPE), MIST, proudly hosted the '1st IPE ALUMNI MEET 2025' on 15 November 2025 at MIST. Alumni from the IPE 01 to IPE 06 batches joined the gathering, reconnecting with faculty members and celebrating the growing legacy of the department. The programme featured an inauguration and welcome session, an address by the Head of the Department, introductions of the attending alumni, remarks from senior faculty, and an open discussion focusing on curriculum relevance and industry integration.



On this significant day, the MIST IPE Alumni Association 2025 was also formed, aiming to build a structured and sustainable platform for continuous collaboration, knowledge exchange, and mentorship between past graduates and the department.

EWCE ALUMNI MEET 2025



The Department of Environmental, Water Resources and Coastal Engineering (EWCE) hosted its '2nd ALUMNI MEET 2025', with participation from alumni both at home and abroad, joining in person and via Zoom. The event featured active discussions on the association's constitution, alumni activities, and future plans. The event ended successfully with fruitful discussion on Importance of alumni involvement in curriculum development and graduate career advancement.

COLLABORATIONS AND AGREEMENTS

RESEARCH AGREEMENT WITH MIST AND BANGLADESH ENERGY AND POWER RESEARCH COUNCIL (BEPRC)



On 29 September 2025, the Bangladesh Energy and Power Research Council (BEPRC) hosted the contract signing ceremony for a landmark initiative titled ‘Development of an Artificial Intelligence Enabled Digital Twin of a Solar Photovoltaic Plant to Enhance Renewable Penetration in the Power Grid of Bangladesh’. The agreement was signed between BEPRC and the Military Institute of Science and Technology (MIST).

Major Shah Mohazzem Hossain, PhD, Instructor Class B from the Department of EECE at MIST, will lead the three-year research project as the Principal Investigator (PI). The project with a total budget of BDT 1.63 core, will be carried out by a team from the EECE Department. Co-Principal Investigators include Major Mohammad Naim Uddin and Assistant Professor Md. Ahsan Kabir, while Assistant Professor Ahsan Kabir will serve as the Lead Research Engineer. The signing ceremony was attended by the Senior Secretary (Chairman of BEPRC), Secretary of the Power Division, Commandant of MIST, Chairmen of BPDB and SREDA, members of BEPRC and BEREC, as well as prominent professors and researchers from BUET and SUST. A key moment of the event was a presentation by Major Shah Mohazzem Hossain, PhD, who provided an in-depth overview of the proposed AI-powered Digital Twin (DT) of a solar photovoltaic system.

MoU SIGNING WITH MIST AND NEURAL SEMICONDUCTOR LIMITED TO ADVANCE BANGLADESH’S SEMICONDUCTOR INNOVATION

The Military Institute of Science and Technology (MIST) has signed a Memorandum of Understanding (MoU) with Neural Semiconductor Limited, marking a significant step towards strengthening Bangladesh’s semiconductor and deep-tech ecosystem on 06 November 2025. This strategic partnership aims to bridge academia and industry by fostering collaboration in research, innovation, and skill development. Through this MoU, both institutions



will work together on joint research initiatives, industry-oriented training, knowledge exchange, and talent development in semiconductor design and related advanced technologies. The collaboration is expected to enhance practical learning opportunities for students while supporting cutting-edge research and innovation.

COLLABORATIONS AND AGREEMENTS

MoU SIGNED BETWEEN NAME DEPARTMENT OF MIST AND GREENHUL SOLUTIONS LTD



The Department of Naval Architecture and Marine Engineering (NAME), MIST, signed a Memorandum of Understanding (MoU) with GreenHul Solutions Ltd. on 14 July 2025. GreenHul Solutions Ltd is a leading organization in the field of Green Shipyard development and works closely with the Ministry of Industries and various donor organizations to transform Bangladesh's shipbreaking yards into environmentally sustainable and pollution-reduced facilities. The MoU aims to foster collaboration in

promoting green shipyard initiatives, creating opportunities for academic involvement, applied research, and industry-academia cooperation. This partnership will enable the NAME department, MIST, to contribute to national efforts in reducing marine pollution and advancing sustainable practices in the shipbreaking and shipyard sectors.

MoU SIGNED BETWEEN BME DEPARTMENT OF MIST AND OMC HEALTHCARE (PVT.) LTD

The Military Institute of Science and Technology (MIST) and OMC Healthcare (Pvt.) Ltd. (OHL) has entered into a strategic partnership through a Memorandum of Understanding (MoU) on 21 December 2025, aimed at advancing research and development of molecular diagnostic kits. This collaboration marks a significant milestone in enhancing the country's healthcare capabilities and scientific innovations. The Memorandum of Understanding (MoU) was formally signed by Colonel Mohammad Shariful Islam, psc, Head of the Biomedical Engineering (BME) Department at MIST, and Mr. Mazbahul Kabir, the Managing Director of OMC Healthcare (Pvt.) Ltd. (OHL), marking a significant step towards strengthening the collaboration between academia and industry.



MoU SIGNED BETWEEN BME DEPARTMENT OF MIST AND BCTL



The Military Institute of Science and Technology (MIST) and Bangladesh Clinical Trials Limited (BCTL) signed a Memorandum of Understanding (MoU) on 22 December 2025, to collaborate on clinical trials of pharmaceutical drugs and medical devices. The MoU was signed by the Head of the Biomedical Engineering Department, MIST, and Managing Director of BCTL.

DELEGATIONS AND VISITS

VISIT OF A DISTINGUISHED PROFESSOR FROM THE UNIVERSITY OF CALIFORNIA



Dr. M. Saif Islam, Distinguished Professor and Chair of the ECE Department at the University of California, Davis, USA, visited the Department of EECE at MIST on 07 July 2025. During his visit, he participated in a discussion session with the department's faculty members, focusing on potential research collaborations between UC Davis and MIST. The discussion also covered recent advancements in nanotechnology and opportunities for knowledge exchange. Following the session, Dr. Islam delivered

a technical seminar titled 'Nanotechnology-enhanced AI: Unlocking the Power of Light for Precision Healthcare and Cybersecurity Innovations,' which highlighted the integration of AI with advanced semiconductor materials, particularly the integration of CMOS-based imaging platforms with nanostructures for AI-powered multidimensional imaging, paving the way for transformative advancements in healthcare, cybersecurity, and communication.

DELEGATION VISIT FROM THE UNIVERSITY OF EAST ANGLIA, UK TO MIST

MIST had the honor of welcoming a distinguished delegation from the University of East Anglia (UEA), UK, on 26 August 2025, as part of a collaborative initiative between the two institutions. As part of the visit, the delegation team explored the facilities of MIST central library, various laboratories, classrooms, and other academic facilities at MIST. The visiting team expressed high appreciation for the management, services, and academic atmosphere of MIST. This visit marks another step toward strengthening academic ties and creating opportunities for collaborative research, knowledge sharing, and institutional growth.



academic ties and creating opportunities for collaborative research, knowledge sharing, and institutional growth.

DELEGATION VISIT FROM UNIVERSITY OF CANBERRA TO MIST



A delegation team headed by the Vice-Chancellor of the University of Canberra, Mr. William Richard Shorten, visited the MIST on 14 December 2025. The visit began with a courtesy meeting with the Commandant, MIST, during which both parties discussed potential avenues for academic and research collaboration. Following the meeting, the delegation toured key academic and research facilities, including the Central Library, Aerodynamics Laboratory, Solid Mechanics Laboratory,

Cyber Range, class rooms, facilities and gaining insight into MIST's teaching and research capabilities.

DELEGATIONS AND VISITS

MIST DELEGATION VISITED TO WALTON HIGH-TECH & DIGI-TECH INDUSTRIES PLC



A delegation from the MIST, led by Major General Md. Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, visited Walton High-Tech & Digi-Tech Industries PLC to explore opportunities for Industry Academia Collaboration. The 32-member team included Heads of Departments and Researchers from different fields of MIST. They visited several Walton production plants and participated in discussions on innovation, research, and technology development to address future challenges. During the visit, Mr. S M Rezaul

Alam, Chairman, and Mr. S M Monjurul Alam Ovi, Managing Director, Walton Digi-Tech Industries PLC, welcomed the delegation and shared information about Walton's latest technological progress.

COLLABORATION AND KNOWLEDGE SHARING BETWEEN IQAC-MIST AND AIUB

The Internal Quality Assurance Cell (IQAC) of MIST visited the Internal Quality Assurance Cell (IQAC) of the AMERICAN INTERNATIONAL UNIVERSITY BANGLADESH (AIUB). The visit featured a productive knowledge-sharing and technical exchange session focused on IQAC operations and best practices. Additionally, the AIUB team conducted an introductory session on the Institute of Continuing Education (ICE), highlighting its activities and contributions. The delegation also had the honour of meeting with the Vice Chancellor of AIUB, Professor Dr. Saiful Islam, which further strengthened the spirit of collaboration between the two institutions.



MIST DELEGATION VISITS ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)



A delegation from the Military Institute of Science and Technology (MIST), comprising representatives from the IQAC-MIST and the Power Research Team of the Department of EECE, visited the Accreditation and Quality Assurance (AQA) Office and the Institute of Energy of the Islamic University of Technology (IUT). During the visit, AQA-IUT shared their practices and experiences in accreditation and quality assurance, followed by an engaging knowledge-sharing session. The Power Research Team also visited the

240 kW Solar Panel Installation at the Institute of Energy and discussed collaborative prospects in renewable energy research. The visit concluded with a courtesy call on to Professor. Dr. Mohammad Rafiqul Islam, Vice-Chancellor, IUT.

ACHIEVEMENTS

INVESTED AS THE 11TH COLONEL COMMANDANT OF THE CORPS OF SIGNALS

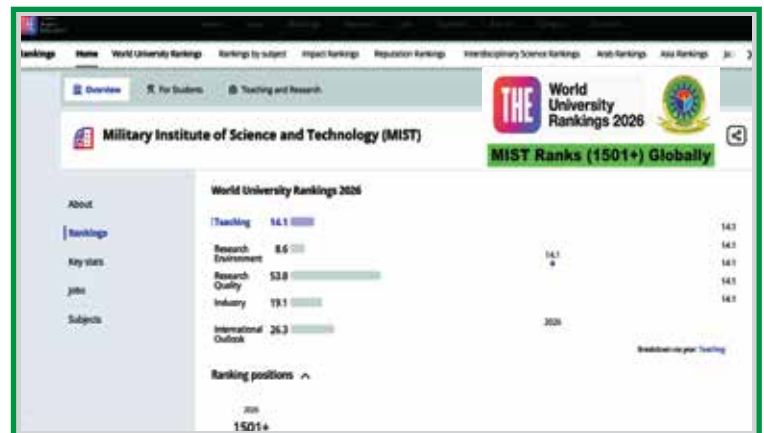


Major General Md. Nasim Parvez, BSP, ndc, afwc, psc, Commandant, Military Institute of Science and Technology (MIST), was invested as the '11th COLONEL COMMANDANT' of the Bangladesh Army Corps of Signals at the Signal Training Center and School in Jashore Cantonment. Upon his arrival at the parade ground, the newly appointed Colonel Commandant was formally greeted and accorded a Guard of Honour. The 'Colonel Commandant Rank Badge' was then presented to the newly appointed Colonel Commandant by the Senior

Most Officer and the Senior Most Master Warrant Officer. Following a spectacular parade, the newly appointed Colonel Commandant delivered his valuable speech to all attendees of the ceremony.

MIST ACHIEVES RANKING FOR THE FIRST TIME IN TIMES HIGHER EDUCATION (THE) RANKING

The Military Institute of Science and Technology (MIST) has secured a global ranking for the first time in the UK-based higher education ranking, 'TIMES HIGHER EDUCATION (THE)' World University Rankings 2026. MIST has been ranked in the 1501+ category, marking a milestone for an advanced engineering educational institution run by the Bangladesh Armed Forces. This achievement reflects MIST's progress in academic excellence, research innovation, and institutional development. MIST successfully met THE's criteria across multiple indicators, including research impact, international collaboration, industry engagement, and teaching quality. The MIST community considers this achievement a proud step forward in advancing higher education and research in Bangladesh.



A MILESTONE FOR MIST: FEATURED IN THE INTERDISCIPLINARY SCIENCE RANKING 2026



MIST has reached a remarkable milestone by being ranked in the 'TIMES HIGHER EDUCATION (THE) INTERDISCIPLINARY SCIENCE RANKING 2026' for the first time in its history. MIST secured a global position in the 401-500 band, placing 6th in Bangladesh, among a total of 1,267 universities that applied from 94 countries. Out of these institutions, 911 universities were ranked while 356 received Reporter status. This achievement reflects MIST's strong and growing presence in interdisciplinary research, academic excellence,

and global innovation. It is truly a proud moment for the entire MIST community.

ACHIEVEMENTS

ACCREDITATION CERTIFICATE AWARDING CEREMONY



On 12 December 2025, during the Arch Summit 2025, the Bachelor of Architecture (B.Arch) programme of the Military Institute of Science and Technology (MIST) was conferred non-conditional accreditation by the Institute of Architects Bangladesh (IAB) for a period of five years. At the formal accreditation ceremony, Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, received the accreditation certificate from Ar. Dr. Abu Sayeed M. Ahmed, President of the Institute of Architects Bangladesh. This distinguished recognition marks a significant institutional milestone for MIST and reaffirms its enduring commitment to upholding the highest standards of excellence in architectural education.

significant institutional milestone for MIST and reaffirms its enduring commitment to upholding the highest standards of excellence in architectural education.

MIST FACULTY MEMBERS HONORED AMONG WORLD'S TOP 2% SCIENTISTS

The Military Institute of Science and Technology (MIST) is proud to announce that our faculty members, Lieutenant Colonel Muhammad Nazrul Islam, PhD, and Professor Dr. Md Enamul Hoque, have been named among the 'World's Top 2% Scientists' by Stanford University and Elsevier Data for this year. This prestigious recognition is a testament to their outstanding contributions to research and academia. We congratulate them on this remarkable achievement, which elevates the reputation of MIST and serves as an inspiration to the academic and research community.



MIST CSE FACULTY ACHIEVED TOP 2% PAPER AWARD AT ICCIT 2025



The Department of Computer Science and Engineering (CSE) at MIST celebrated another scholarly milestone as a distinguished research team received the prestigious TOP 2% PAPER AWARD AT THE 28th INTERNATIONAL CONFERENCE ON COMPUTER AND INFORMATION TECHNOLOGY (ICCIT) 2025. The award-winning research stood out among hundreds of international submissions for its technical depth and innovative contribution to the field of information technology. This paper was

authored by Lecturer Md Rashid Ul Islam, Lecturer Khaled Hasan Irfan, Lecturer Tariq Hasan Rizu, Lecture Iyolita Islam, and Lieutenant Colonel Muhammad Nazrul Islam, PhD.

ACHIEVEMENTS

PARTICIPATION AS A KEYNOTE SPEAKER IN INTERNATIONAL CONFERENCE



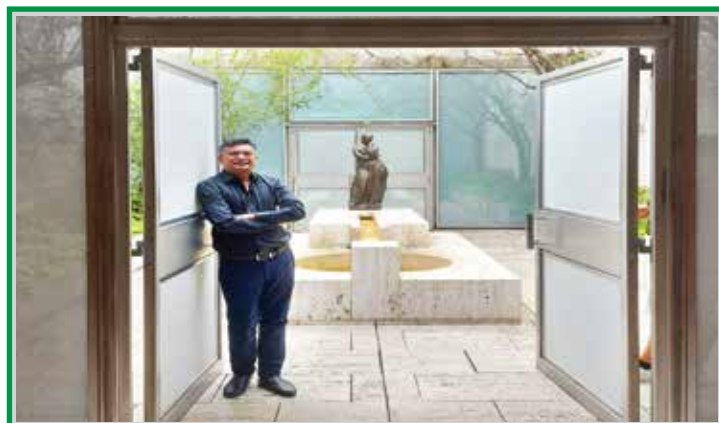
Lieutenant Colonel Md. Altab Hossain, PhD, EME Department of Nuclear Science & Engineering (NSE), MIST, attended the 23rd Conference on International Exchange of Professionals (Shanghai) and the 2025 International Conference on the Cooperation and Integration of Industry, Education, Research and Application (Changchun) as a keynote speaker, representing the Department of Nuclear Science & Engineering, MIST. He strengthened research collaboration with Jilin University, China, promoting joint academic and innovation initiatives. He also received official confirmation of the MoU between MIST and Jilin University, China, marking the initiation of formal academic and research collaboration.

RECEIVED AN INTERNATIONAL FELLOWSHIP AT THE GETTY CONSERVATION INSTITUTE, USA

Associate Professor Mohammad Sazzad Hossain, Department of Architecture, MIST, received international training with a full fellowship on the Conservation of Modern Heritage from the renowned Getty Conservation Institute, USA and participated in scholarly activities there during July and August 2025. The participants included academics and professionals from 21 countries, namely Albania, Australia, Bangladesh, Bosnia and Herzegovina, Brazil, Canada, Denmark, Ecuador, Egypt, Ethiopia, India, Ireland, Kosovo, Kuwait, Nigeria, North Macedonia, Saudi Arabia, Singapore, the UK, Uruguay, and USA.



SERVED AS ONE OF THE JURORS FOR THE PRESTIGIOUS GLOBAL UNDERGRADUATE AWARDS 2025



Architect Mohammad Sazzad Hossain, Associate Professor, Department of Architecture, MIST, had the privilege of serving as one of the jurors for the prestigious 'Global Undergraduate Awards 2025'. The award was published in September 2025. The Global Undergraduate Awards is the world's leading pan-disciplinary awards programme celebrating exceptional research. This year, 25 global winners have been selected from thousands of submissions representing over 350 universities and institutions from 99 countries across the world. The distinguished judging panels comprised leading academics and industry experts from around the globe.

ACHIEVEMENTS

ACHIEVEMENT IN THE BEAR SUMMIT AND NATIONAL SEMICONDUCTOR SYMPOSIUM 2025



The 'BEAR SUMMIT AND NATIONAL SEMICONDUCTOR SYMPOSIUM 2025' was held in Bangladesh from 16 to 17 July 2025, at the National Science and Technology Complex, Dhaka. Served as the platform where "RAD-SAFE," an IoT and ML-powered Nuclear Radiation Safety System, secured a Top 3 position among over 100 participants. Led by Mubin Hossain Omio, a Level-04 student of the Department NSE, and supervised by Prof. Dr. Abdus Sattar Mollah. A group of talented researchers from the Department of EECE,

MIST, showcased outstanding research contributions at the programme. The poster titled 'High-Speed and Low-Power 8-bit 12-Function ALU using Transmission Gate Logic in 90nm Technology', developed by Level-4 students of MIST, Saquib Farhan, Sadman Rahman, and Saiba Aabira, were ranked among the top 15 entries in the Semiconductor category. Another team from the same department, supervised by Major Kazi Newaj Faisal, presented 'GCAF-Net: An Attention-Enhanced Deep CNN with Grad-CAM for Classifying Rare and Endangered Medicinal Plants in Bangladesh', which earned the 2nd Runner-Up position in the Biotech (Digital Display–People's Choice) category among 94 competing posters.

INTERNATIONAL ASTRONOMY AND ASTROPHYSICS COMPETITION (IAAC) 2025

Shehab Shahriar Fardin of the Aeronautical Engineering Department of MIST has been awarded the Bronze Honour in the 'INTERNATIONAL ASTRONOMY AND ASTROPHYSICS COMPETITION (IAAC) 2025'. Assistant Professor Nazifa Tasnim served as the official supervisor. This accomplishment highlights the continued success of MIST with IAAC, underscoring the growing interest in space sciences among students and reflecting the institute's commitment to academic excellence.



COMPETITIVE SCHOLARSHIP AWARD AT THE INTENSIVE EARTH & FIBRES WORKSHOP



Tahmid Rana Khan (ARCH 8), a student of the Architecture Department of MIST, was awarded a COMPETITIVE SCHOLARSHIP to attend the BASEhabitat Summer School 2025, an intensive earth & fibres workshop organized by the University of Arts and Design Linz. Held from 6–20 July 2025 in Kuchl, Austria, the programme selected him from over 100 international applicants based on portfolio review. Tahmid joined a global cohort of 200 participants and completed the program, earning 4 ECTS (European Credit Transfer System) course credits.

ACHIEVEMENTS

MIST BLITZ SHINES AT FORMULA STUDENT COMPETITION CHINA 2025



Team MIST BLITZ, a Student group formed by enthusiasts of automobiles from the Mechanical Engineering Department at MIST, participated in the ‘FORMULA STUDENT COMPETITION CHINA 2025’, held in Zhengzhou, China, from October 8 to 12 October 2025. The competition was organized by the China Society of Automotive Engineers (China-SAE). Out of 76 international teams at the competition, they secured the ‘Best Foreign Team’ and ‘Best Presentation’ awards. They secured 4th pl-

ace in the Business Plan Presentation. This remarkable achievement highlights the dedication, innovation, and engineering excellence of MIST students on the global stage.

TEAM MONGOL BAROTA SHOWCASES ROVER ‘AURORA-X’ AT BANGLADESH SPACE OLYMPIAD SEASON-3

On 13 August 2025, Team Mongol Barota from MIST proudly showcased its rover ‘AURORA-X AT THE EARTH TO ETHER PROJECT SHOWCASE’ of the Bangladesh Space Olympiad Season-3 at the AIUB campus. The event brought together teams from several prestigious universities, including BRAC University, UIU, IUT, and Green University, creating a vibrant platform for talent and innovation. Aurora-X drew significant attention for its innovative design, functionality, and the dedication behind its development. Team Mongol Barota engaged in enriching discussions with other university teams, exchanging insights on engineering processes, challenges faced, and creative solutions implemented. A highlight of the event was the rare opportunity to witness demonstrations of all five operational rovers from Bangladesh gathered in one place. This unique experience not only broadened the team’s technical perspective but also strengthened their confidence, unity, and team spirit, marking an inspiring milestone in their journey.



AUTOMECH 2025, ISLAMIC UNIVERSITY OF TECHNOLOGY



Quazi Shadid Rashid, a student of Level 3 of the Department of Mechanical Engineering (ME) of MIST, clinched the Champion title in the Autoquest segment of ‘AUTOMECH 2025’. The competition hosted by the Islamic University of Technology (IUT) was held from August 8 to 9, 2025. The event brings together aspiring engineers, researchers, and industry enthusiasts to explore cutting-edge technologies, creative problem-solving, and real-world engineering applications.

ACHIEVEMENTS

BANGLADESH ICT & INNOVATION AWARDS 2025



The 'BANGLADESH ICT & INNOVATION AWARDS 2025 COMPETITION', organized by the Bangladesh ICT & Innovation Network, was held on 18 October 2025. The MIST team "RADSAFE" participated with their project, RADSAFE - IoT-based Nuclear Safety System. The team leader of the project is Mubin Hossain Omio, a level 04 student of the Nuclear Science and Engineering Department at the Military Institute of Science and Technology (MIST), and the supervisor is Prof. Dr. Abdus Sattar

Mollah, Professor of the NSE Department, MIST. The project's success led to the team winning the Gold Trophy and being selected to participate in the Asia Pacific ICT Alliance Award 2025 in Taiwan.

MIST CSE SHINES AT THE ICT OSCARS: APICTA AWARDS 2025, TAIWAN

The Military Institute of Science and Technology (MIST) reached a historic milestone at the 'ASIA PACIFIC ICT ALLIANCE (APICTA) AWARDS 2025' in Taiwan, often referred to as the 'ICT Oscars of Asia-Pacific.' Competing against over 1,000 innovators from across the region, Fatima Ashraf (CSE '23 Batch) of team 'Bored Tunnelers' achieved a monumental victory by winning the Silver Prize and a USD 5,000 award at the MEGA DAY Startup Pitch for her innovative project, Automated MTBM. Further



elevating the department's global profile, Lecturer Md. Rashidul Hasan and Lecturer Adib Ahsan represented MIST CSE on the international stage to present 'Anchor Eye,' an AI-powered pisciculture monitoring system.

SHOKTIKONNA LEADERSHIP COHORT 2025



The 'SHOKTIKONNA LEADERSHIP COHORT 2025', organized by The World Bank, the European Union in Bangladesh, and GIZ Bangladesh, was participated in by Purba Meghwati Nakshi, Level 04 student of the Department of Nuclear Science and Engineering (NSE), MIST. She was selected from 1,000+ applicants nationwide through a competitive selection process. The four-month cohort focused on sustainable energy and leadership development. During the program, she participated in structured technical sessions, field visits, applied energy problem-solving activities, and collaborative project work, including a Solve-A-Thon addressing real-world energy challenges. She successfully graduated from the cohort

after completing all academic, technical, and project requirements, marking a significant milestone in her academic and professional development.

ACHIEVEMENTS

MIST TEAMS SHINE AT BUP CSE TECH CARNIVAL 2025



CSE team of MIST achieved remarkable success at the BUP CSE TECH CARNIVAL 2025 Programming Contest, held on 25 September 2025. Team MIST_Eagle Forces, from the CSE department, emerged as the Champion, while Team MIST_Untitled, from the same department, secured the 1st Runner-up position. A total of 29 teams from MIST, BUP, BAUST, and BAIUST participated in this prestigious contest, marking a proud moment for MIST.

FUTURE BANGLADESH CHALLENGE 2025

The 'FUTURE BANGLADESH CHALLENGE 2025 COMPETITION', organized by The Bangladesh Dialogue, was held on 02 December 2025. MIST student Mubin Hossain Omio, level 04, Department of Nuclear Science & Engineering, participated with his policy idea Project KIRON (Key Isotope Resources for Oncology Network). The policies' success led him to win the Champions trophy with 1 lac taka prize money.



MIST CENTRAL LIBRARY SECURES FIRST PRIZE IN IDEA COMPETITION



With the vision of inspiring the younger generation to become more library-oriented, Librarian Voice launched a special initiative titled "Making the Future." As part of this initiative, a nationwide idea competition was organized under the theme 'MY LIBRARY IN MY THOUGHTS', which received 47 innovative proposals from across the country. In this competition, MIST Central Library proudly secured the First Place Award, receiving the official crest and certificate from the Librarian

Voice on 23 August 2025 at Bishwo Shahitto Kendro, Dhaka. The library presented a proposed model for a school library designed to be participatory and student-led.

SPORTS AND EXTRA-CURRICULAR ACTIVITIES

INTER DEPARTMENT FOOTBALL COMPETITION 2025



The 'INTER-DEPARTMENT FOOTBALL COMPETITION 2025' was held at the MIST Playground from 24 August 2025 to 07 September 2025 under the supervision of the Directorate of Students' Welfare (DSW). A total of 12 MIST departments participated in the tournament. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, graced as the chief guest of the final match and distributed prizes among the winners. The Aeronautical Engineering (AE) Department became the Champion, and the Computer Science

Science and Engineering (CSE) Department became the Runner-Up of the tournament. The competition was concluded with the chief guest's closing speech.

INTER DEPARTMENT VOLLEYBALL COMPETITION 2025

The 'INTER DEPARTMENT VOLLEYBALL COMPETITION 2025' was held from 21 to 30 July 2025 with great enthusiasm and active participation from students across all departments. A total of 12 departments took part in the event, engaging in a series of exciting matches that fostered teamwork, discipline, and competitive spirit. The final match of the tournament was a highly spirited competition between the Electrical, Electronic, and Communication Engineering (EECE) department and the Aeronautical Engineering (AE) department. The EECE department emerged as the Champion, while the AE department secured the Runner-up position. The closing ceremony was honored by the presence of Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant, MIST, as the chief guest.



INTER DEPARTMENT CRICKET COMPETITION 2025



The 'INTER DEPARTMENT CRICKET COMPETITION 2025' was held from 07 to 24 December 2025 under the supervision of the Directorate of Students' Welfare (DSW). A total of 12 departments of MIST dividing into 4 groups, participated in the tournament. The Civil Engineering (CE) department became the champion, and the Mechanical Engineering (ME) Department became the runner-up of the tournament. Md Ariful from the CE Department became the Best player of the tournament.

Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant, MIST, was the chief guest of the closing ceremony.

SPORTS AND EXTRA-CURRICULAR ACTIVITIES

INTER DEPARTMENT DEBATE COMPETITION 2025



The 'INTER DEPARTMENT DEBATE COMPETITION 2025' was commenced on 02 December 2025 under the arrangement of the Science and Humanities Department, with the active participation of all twelve departments. The Final Debate was held as an integral part of the closing ceremony on 11 December 2025, was contested between the Electrical, Electronic, and Communication Engineering (EECE) department and the Industrial and Production Engineering (IPE) department.

Demonstrating remarkable logical reasoning and persuasive skills, the department of EECE emerged as the champion of the debate competition.

NOBIN BORON 2025

'NOBIN BARON 2025' was held at MIST on 03 July 2025. Newly joined Level-1 students were warmly welcomed by students of Levels 2 to 4 and faculty members through a traditional ceremony, during which sashes were adorned on the newcomers as a gesture of welcome. Lieutenant General S M Kamrul Hassan, BSP, ndc, hdmc, psc, PhD, Principal Staff Officer, Armed Forces Division (AFD), graced the occasion as the chief guest. He inaugurated the event by releasing balloons, marking the formal commencement of the ceremony. Following the inauguration, the chief guest, Commandant MIST, senior officers, and programme coordinators participated in a photo session with the newly enrolled Level-1 students.



CENERTIA 25



The Department of Civil Engineering (CE), Military Institute of Science and Technology (MIST), successfully hosted 'CENERTIA 25' on 6 to 7 December 2025, unfolding two vibrant days of academic excellence, inter-university collaboration, cultural expression, and professional exchange. The first day of CE Fest commenced with a morning rally. The rally was graced by the presence of the Commandant of MIST, Major General Md Nasim Parvez, BSP, ndc, afwc, psc. The second day of CE Fest 2025 featured a highly

significant seminar titled 'TOWARDS A RESILIENT BANGLADESH: UNDERSTANDING SEISMIC RISKS, DESIGNING SAFETY, AND MANAGING EMERGENCIES'. The seminar was honored by the presence of the chief guest, Engineer-in-Chief Major General Hasan Uz Zaman, ndu, afwc, psc, MPhil, whose leadership and vision highlighted the critical role of civil engineers in ensuring national safety and infrastructure resilience. The session was further enriched by distinguished keynote speakers and panelists.

SPORTS AND EXTRA-CURRICULAR ACTIVITIES

TALENT HUNT 2025



The Department of Computer Science and Engineering (CSE) successfully conducted 'TALENT HUNT 2025' on 05 July 2025 in a festive, engaging atmosphere. A total of 108 participants actively participated in the Programming Contest (54) and the Cyber Security CTF (54). The event met its objective by identifying promising talents with a genuine interest in programming and cybersecurity. Major General Muhammad Nasim Parvez, BSP, ndc, afwc, psc, Commandant of MIST, attended the event and distributed prizes among the winners.

Md Ismail Hossain (CSE) secured 1st place, followed by Ashria Mahmud (CSE) in 2nd and Abdullah Al Kafi (EECE) in 3rd, with seven other students earning distinction among the Top 10 winners.

ROBOLUTION 2025: NATIONAL ROBOTICS FESTIVAL AT MIST

The Military Institute of Science and Technology (MIST) successfully hosted 'ROBOLUTION 2025', two days from 27 to 28 November 2025 at the MIST campus, organized by the MIST Robotics Club. Robolution 2025 brought together participants from schools, colleges, and universities across the country, providing a national platform for young innovators to demonstrate their creativity and engineering expertise in robotics and automation. The festival featured a diverse range of competitive events, including Battle of Bots, Line Following Race, Soccer Bot, Cosmo Clench, Valorant Gaming Competition, VLSI Design Competition, and Arduino Code Challenge, conducted at multiple venues within the MIST campus.



MIST INNOVATION CLUB SUCCESSFULLY CONDUCTED TREASURE HUNT 4.0



MIST Innovation Club, under the supervision of the Research and Development Wing (R&D), successfully hosted the dynamic TREASURE HUNT 4.0 on 02 to 03 July 2025, designed to welcome our newly joined Level-1 students with creativity and excitement. Treasure Hunt 4.0 was designed to challenge participants with a series of intriguing Quizopia challenges. Top 16 teams unlocked clues across the MIST campus guided by Pirates of the Caribbean-inspired hints offering a fun - filled

introduction to MIST facilities. The initiative encouraged problem solving, collaboration, and joyful exploration—earning overwhelming appreciation from participants.

ARMED FORCES DAY 2025



On 21 November 2025, MIST observed 'ARMED FORCES DAY'. All members of MIST and their families attended the programme. This day is an important occasion to honour the dedicated service and sacrifices made by our country's military personnel. To commemorate this significant day, MIST organized various events, including special prayer, flag hoisting, special darbar and a Priti Bhoj.

VICTORY DAY (BIJOY DIBOSH) 2025

On 16 December 2025, MIST observed the Victory Day. On this day, Bangladesh gained independence after a nine-month-long struggle, which resulted in the creation of the new nation, Bangladesh. In 2025, Victory Day marked the 54th anniversary of this historic event. The day was observed with national pride and solemnity, honouring the sacrifices made by freedom fighters and those who lost their lives during the war. MIST organized a special prayer, flag hoisting, and Priti Bhoj to commemorate this significant day. Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant and all members of MIST participated in the event.



FORMAL INAUGURATION OF RENOVATED MIST AVENUE



The renovation of MIST Avenue, a 840-foot-long and 18-foot-wide roadway, was formally inaugurated on 1 December 2025 by Major General Md Nasim Parvez, BSP, ndc, afwc, psc, Commandant MIST. This project, which addressed a long-standing requirement of the institute, was completed on 30 November 2025, having commenced on 4 May 2025. Guided by the Commandant, the work was executed by Advance Development Technologies Limited under the

supervision of the Engineering and Maintenance Section of MIST and GE (Army) Mirpur. During the ceremony, the Commandant appreciated the quality of the work and commended all involved teams and individuals for its successful completion.

INCOMING OFFICIALS



BA-5464 Brig Gen A K M Khabirul Islam, PhD
Head, IPE Dept
Joined on 05-09-25



BA-5693 5693 Col Shah Zulfikar Ali, afwc, psc
Dir Admin
Joined on 02-09-25



BA-5815 Col Md Rezaul Karim, psc
SI, EWCE Dept
Joined on 12-09-25



BA-6117 Col Abu Sadat Mohammad Tanvir, afwc, psc,
Dir, DSW
Joined on 06-11-25



BA-6216 Lt Col Md Enamul Karim, psc, EME
Instr Cl-A, Sc & Hum Dept
Joined on 13-08-25



BA-6348 Lt Col Sanjeev Delwar, psc, Engr
GSO-1 (Research), R & D Wg
Joined on 10-07-25



BA-4647 Maj Abu Shakik, Arty
GSO 2, Admin Wg
Joined on 01-08-25



BA-4678 Maj Md Khurshid Alam, ASC
Instr Cl-B, Sc & Hum Dept
Joined on 26-11-25



BA-5010 Maj Syed Ashraf Shahed, EB
Instr Cl-B, CSE Dept
Joined on 17-09-25



BA-6021 Maj Mohammad Tanvir Hasan Chowdhury, AEC
Instr Cl-B, Sc & Hum Dept
Joined on 01-08-25



BA-6388 Maj Mohiuddin Ahmed Mojumder
Instr Cl-B, Sc & Hum Dept
Joined on 07-11-25



BA-6984 Maj Selina Nasrin, Engrs
GSO 2, NSE Dept
Joined on 13-10-25



BA-8812 Maj H. M. Imran Kays, Engr
Instr Cl-B, CE Dept
Joined on 30-07-25



BA-9416 Maj Tania Islam, Arty
GSO 2, DSW
Joined on 23-09-25



BA-9416 Lt Cdr Uttthan Edward (E), (BN)
Instr Cl-B, NAME Dept
Joined on 14-09-25

OUTGOING OFFICIALS



BA-4619 Brig Gen Md Anisur Rahman
Head, EECE Dept
Departed on 13-11-25



BA-4275 Brig Gen Md Rosaidul Mowla, ndc, psc
Head, EECE Dept
Departed on 14-08-25



BA-5545 Brig Gen Md Shamim Iftakhar, NUP, PBGMS
Head, Arch Dept
Departed on 01-09-25



BA-5873 Col Hasan Masud, psc
Dir Admin
Departed on 13-07-25



BA-5378 Lt Col Newaz Khurshid Ahmed, AEC
Instr CL A, Sc & Hum Dept
Departed on 23-08-25



BD- 8808 Wg Cdr Md Zohurul Islam, psc (BAF)
GSO- 1, Exam
Departed on 15-09-25



BA-6415 Maj Muhammad Emad Uddin Lasker, G+, Arty
GSO-2 (Mess) Adming Wg
Departed on 13-08-25



BA- 8453 Maj Nazmul Karim Mazumder, AEC
GSO-2, BME Dept
Departed on 21-08-25



BA- 7717 Maj Kanchon Nahar Shipa, Engrs
GSO-2, CE Dept
Departed on 08-10-25



BA- 9268 Maj H. M. Khairul Enam, EME
Instr CL B, ME Dept
Departed on 26-11-25



P No-2614 Lt Cdr Naima Afrin Tanni (E), (BN)
Instr CL B, NAME Dept
Departed on 14-09-25

PUBLICATIONS

JOURNAL ARTICLE

CE DEPARTMENT

- Lieutenant Colonel Mohammed Russedul Islam, along with five co-authors, published a journal paper titled 'High-strength and low absorption geopolymer artificial aggregates produced under heat, autoclave, and heat-solution curing' in the International Journal of 'Case Studies in Construction Materials'.
- Lieutenant Colonel Khondaker Sakil Ahmed, along with three co-authors, published a journal paper titled 'Experimental and numerical investigation for the flexural behavior of pretensioned spun precast concrete piles' in the International Journal of 'Engineering Structures'.
- Lieutenant Colonel Khondaker Sakil Ahmed, along with two co-authors, published a journal paper titled 'Investigating shear behavior of fiber-reinforced rubberized recycled aggregate concrete beams using a hybrid ML-FEM approach' in the International Journal of 'Engineering Structures'.
- Lieutenant Colonel Md Jahidul Islam, along with four co-authors, published a journal paper titled 'Behavior of recycled brick aggregate concrete column retrofitting with carbon fiber reinforced polymer under concentric and eccentric loading' in the International Journal of 'Thin-Walled Structures'.
- Lieutenant Colonel Khondaker Sakil Ahmed, along with two co-authors, published a journal paper titled 'Data-driven tensile strength prediction for fiber-reinforced rubberized recycled aggregate concrete using machine learning' in the International Journal of 'Cleaner Materials'.
- Lieutenant Colonel Khondaker Sakil Ahmed, along with four co-authors, published a journal paper titled 'ML models for predicting compressive strength of concrete containing various fiber types' in the International Journal of 'Computers and Concrete'.
- Professor GM Jahid Hasan, along with two co-authors, published a journal paper titled 'Analysis of rainfall patterns and modulations of extreme climatic indices along the coastal zones of Bangladesh' in the International Journal of Earth System Science.

EECE DEPARTMENT

- Brigadier General K. M. Mustafizur Rahman, along with two co-authors, published a journal paper titled 'Broadband CMOS compatible High-performance TM-pass polarizer based on hybrid plasmonic ridge waveguide,' in IEEE Access December.

ME DEPARTMENT

- Lecturer Ramim-Ul Hasan, along with four co-authors, published a journal paper titled 'Dispersion stability of a water-based ternary hybrid nanofluid with Al₂O₃, CuO, and graphite: an experimental and RSM modeling approach' in the International Journal of 'Next Research' on 9 July 2025.
- Md. Ramim-Ul Hasan, Tanjimur Rashid, Md. Emdadul Hoque, Muhammad Aziz, and Md. Sanowar Hossain published a journal paper titled 'Dispersion stability of a water-based ternary hybrid nanofluid with Al₂O₃, CuO, and graphite: an experimental and RSM modeling approach' in the International Journal of 'Next Research' on 9 July 2025.
- Nelay Kumar Das, Arup Das, Tasfia Fairuz Nuha, Syeda Tanjila Sarwar, and M Monjurul Ehsan has published a journal paper titled 'Numerical and machine learning investigation of mixed convection in a corrugated enclosure with dual rotating cylinders and variable port arrangements' in the International Journal of Next Research in December 2025.
- Rahikim Tanzim, Arup Das, Syed Nasif Zaman, Tasmia Azmi Lia, and Syeda Tanjila Sarwar has published a journal paper titled 'A chromosome-inspired fin structure for microchannel heat sinks: CFD driven XGBR, ANN, and MLR models for thermal and fluid flow prediction' in the International Journal of 'International Communications in Heat and Mass Transfer' in December 2025.

PUBLICATIONS

JOURNAL ARTICLE

BME DEPARTMENT

- Lecturer Md Kaiissar Mannoor, along with twenty co-authors, published a journal paper titled 'Altered carnitine-acylcarnitine profiles in levothyroxine-treated congenital hypothyroid patients with fatigue: An LC-MS/MS-based study from Bangladesh' in the reputable 'Plos ONE' journal in September 2025.'

EWCE DEPARTMENT

- Maisha Khan, HM Imran Kays, Dominique M. Pittenger, Gerald A. Miller, and Arif Mohaimin Sadri published a journal paper titled 'Identifying traffic control mechanism to improve the level of service and resilience in road networks based on topological credentials' in the International Journal of 'Transportation Research Interdisciplinary Perspectives'.

IPE DEPARTMENT

- Colonel Syed Rashedul Haque, published a journal paper titled 'Prospects of Bamboo Fibers in the Textile and Apparel Industries: A Case Study', in International journal of innovative research in multidisciplinary field.
- Colonel Syed Rashedul Haque, published a journal paper titled 'Machine Learning Applications in End-To-End Supply Chain Management: A Comprehensive Review', in International journal of scientific research and management (IJSRM).
- Professor Dr. AKM Nurul Amin, published a journal paper titled 'Parameter optimization in high-speed machining of hardened die steel; AISI H13 using PVD-coated WC tools' in International journal of Advances in Materials and Processing Technologies on 22 May 2025.
- Professor Dr. AKM Nurul Amin, published a journal paper titled "Optimization of process parameters in Nano-particle mixed EDM of hardened die steel AISI H13 using RSM and GA' in International journal of 'Results in Surfaces and Interfaces'. (Elsevier) on 01 May 2025.

PME DEPARTMENT

- Taukir Ahsan, along with six co-authors, published a Journal paper titled 'Potential Application of Lemon Peel Powder as Bio-Additive for Modifying Characteristics of Water-Based Drilling Fluids' in the Journal of Advanced Research in Micro and Nano Engineering.
- Md. Aumio Tajrian, along with five co-authors, published a Journal paper titled 'Comparative analysis of Machine Learning Models for Predicting Particle Size Parameters from Drilling Data' in the Journal of Advanced Research Design.

PUBLICATIONS

JOURNAL ARTICLE

Sc & Hum DEPARTMENT

- Hazzaz Al Abtahee, Tauhfa Mahanur, 'Blurring boundaries : A New Historicist Approach to Humayun Ahmed's Badshah Namdar and Reimagining Historical Narrative', Journal of ELT and Education.
- Dr. Dilip Kumar Roy and Nahreen Saleha Shahadat, "William Shakespeare: A Marxist before Marx", BUP Journal, September 2025
- Motafizur Rahaman, Md. Fahamidul Islam, Mohebul Ahsan, Mohammad Imran Hossain, Faruq Mohammad, Tahamida A. Oyshi, Md. Abu Rashed, Jamal Uddin, and Mohammad A. Hasnat, "Development of a Au/TiO₂/Ti Electrocatalyst for the Oxygen Reduction Reaction in a Bicarbonate Medium", Catalysts.
- Mohebul Ahsan, Md Asaduzzaman, Jahir Ahmed, Kazi Hamidur Rashid, Kentaro Aoki, Yuki Nagao, M. Faisal, Jari S. Algethami, Farid A. Harraz, Mohammad A. Hasnat, 'Theoretical Insights into Enhanced Electrocatalytic Arsenic Oxidation on Au-Decorated Pt Surfaces in Neutral Medium', Chemistry-An Asian Journal.
- Nakshatra Bahadur Singh, Asima Monjur, Bhuvnesh Kumar, Shivani Varshney and Md. Abu Bin Hasan Susan, "Revolutionizing healthcare with nanosensor technology", RSC Advances, 2025.
- Nilufar Yasmin, Roni Akter, Mst. Sathi Akter, Mahtab U. Ahmmed, "Numerical Simulation of viscous Air Dynamics in Emphysemic Human Lungs", AIP Advance, 2025.
- Md Masud Rana , M J H Khan, Md. Asaduzzaman, "Analysis of Safety Margin Aspects of the BAEC TRIGA Research Reactor using the Deterministic Code System SRAC2006", Journal of FST, BUP Journal.
- Farheen Akter Bhuian and Shah Ehsan Habib, "Disability, Vulnerability and Sexuality: Sexual and Reproductive Healthcare Experiences of Young Persons with Disabilities in Dhaka City", Disability & the Global South (DGS), 2025, Vol. 12(1), pp. 2568-2592.

CONFERENCE PAPER

CE DEPARTMENT

- Lieutenant Colonel Khondaker Sakil Ahmed published a conference paper titled 'Seismic Performance of Concrete Column Reinforced with High-Strength Rebar (GPH 600 CR)' in The Fourth International Conference on Sustainable Civil Engineering and Architecture 2025 held at Ho Chi Minh City, Vietnam.

EECE DEPARTMENT

- Professor M. Hossam-E-Haider, along with four co-authors, published a conference paper titled 'Multi-modal Brain Tumor Segmentation Using Attention and Residual- Enhanced 3D U-Net Architectures', 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 1 to 2 August, 2025.
- Lieutenant Colonel Md. Tawfiq Amin, PhD, EME, along with four co-authors, published a conference paper titled 'Quadrature Clock Generator Based on Folded MCML D-Latch for Half-Rate CDR Applications' at the 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 31 July 2025 to 02 August 2025.
- Lieutenant Colonel Md. Tawfiq Amin, PhD, EME, along with four co-authors, published a conference paper titled 'Wideband and Linear Current Starved VCO with Source Degeneration and Integrated Charge Pump for ADC Front Ends' at the 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 31 July 2025 to 02 August 2025

EECE DEPARTMENT

- Lieutenant Colonel Md. Tawfiq Amin, PhD, EME, along with four co-authors, published a conference paper titled 'CMOS-Memristor-Based LIF & STDP Functions for Spiking Neural Networks Application' at the 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 31 July 2025 - 02 August 2025.
- Major Kazi Newaj Faisal, PhD, EME, along with three co-authors, published a conference paper titled 'Leveraging Power Spectrum-based Features and Machine Learning for Resource-Efficient Cough Classification in Respiratory Disease Monitoring', in the 2025 IEEE International Conference on Signal Processing, Information, Communication and Systems (SPICSCON 2025), Dhaka, Bangladesh, 2025. (Best Paper Award).
- Major Kazi Newaj Faisal, PhD, EME, along with three co-authors, published a conference paper titled 'Towards Real-Time Tea Leaf Disease Management: A Deep Learning Solution for Resource-Constrained Environments,' in the 11th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2025 (IEEE WIECON-ECE 2025), Cox's Bazar, Bangladesh, 2025.
- Major Kazi Newaj Faisal, PhD, EME, along with three co-authors, published a conference paper titled 'Wi-FHARNet: A CNN-BiLSTM Hybrid model for Fine-grained Human Activity Recognition utilizing Wi-Fi-based CSI Data,' in the 2025 6th IEEE International Conference on Telecommunications and Photonics (ICTP 2025), Dhaka, Bangladesh, 2025.
- Major Md Abdul Wahed, Sigs, along with five co-authors, published a conference paper titled 'Urban Traffic Flow Prediction via Multi-Model Classifier Ensemble' at the 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 29 September 2025.
- Major Md Abdul Wahed Sigs, and Lt Col Hussain Md Abu Nyeem published a conference paper titled 'Context-Aware Dual Pixel Value Ordering based High Fidelity Reversible Data Hiding,' in Proceedings of the IEEE International Conference on Computer and Information Technology (ICCIT), Bangladesh, 2025.
- Major Shah Mohazzem Hossain, PhD, Sigs, along with three co-authors, published a conference paper titled 'Design and Modeling of Campus Microgrid for Future Sustainable Energy Operations' in the IEEE International Conference on Power Systems (ICPS)-2025, held in IIT-Hyderabad, India.
- Major Shah Mohazzem Hossain, PhD, Sigs along with one co-author published a conference paper titled 'Techno-Economic and Environmental Assessment of On-Grid Rooftop Solar Integration for Diesel-Dependent Urban Markets' in IEEE International Conference on Power Systems (ICPS)-2025, held in IIT-Hyderabad, India.
- Major Shah Mohazzem Hossain, PhD, Sigs, along with two co-authors, published a conference paper titled 'Exploring a Hybrid Renewable Energy System to Meet Bangladesh's Future Energy Needs' in the IEEE International Conference on Power Systems (ICPS)-2025, held in IIT-Hyderabad, India.
- Major Shah Mohazzem Hossain, PhD, Sigs, along with one co-author, published a conference paper titled 'Impact of Rooftop PV on Overcurrent Relay Performance in Distribution Networks' in the 2025 IEEE International Conference on Power, Electrical, Electronics and Industrial Applications (PEEIACON), Dhaka, Bangladesh.
- Assistant Professor Sunjida Sultana, along with four co-authors, published a conference paper titled 'Neural Network Enhanced PID Control of Automatic Voltage Regulators: Comparative Study with Classical and Regression Approaches', 2025 28th International Conference on Computer and Information Technology (ICCIT) 19-21 December 2025, Cox's Bazar, Bangladesh.

EECE DEPARTMENT

- Lecturer Z. M. G. Ul Alim, along with two co-authors, published a conference paper titled 'Predictive Modelling for Alzheimer's Disease Detection: A Machine Learning and Deep Learning Approach', 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 1-2 August, 2025.
- Lecturer Ayat Subah Alam, along with five co-authors, published a conference paper titled 'HAACNet++: Attention-Driven Context Learning for Mitochondrial Segmentation,' 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 29 September 2025.
- Lecturer Tareque Bashar Ovi, along with five co-authors, published a conference paper titled 'YESnet: YOLOv11 Enabled SAM-2 Framework for Memory-Efficient Skin Lesion Segmentation' 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 29 September 2025.
- Lecturer Tareque Bashar Ovi, along with four co-authors, published a conference paper titled 'DoubleUNet++: Channel-Aware Gated Attention for Road Extraction in Satellite Imagery,' 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 29 September 2025.
- Lecturer Md Tanjil Islam Aronno, along with four co-authors, published a conference paper titled IEEE, Compass IEEE International Conference on Computing, Applications and Systems (COMPAS 2025) 15 September 2025.
- Lecturer Lamiya Mahbu, along with five co-authors, published a conference paper titled 'A Comparative Analysis on the Design of CMOS SRAM for Key Performance Parameters' at the 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 2025, 31 July 2025 - 02 August 2025.
- Lecturer Lamiya Mahbub, along with four co-authors, published a conference paper titled 'Optimized Multiplexer Architectures: A hybrid approach to Low-power and High Speed VLSI design' at the 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Rangpur, Bangladesh, 31 July 2025 - 02 August 2025.
- Lecturer Zia Md Galib Ul Alim, along with three co-authors, published a conference paper titled 'RCGA-UNet-DS: Residual Cross-Gated Deeply-Supervised U-Net for Thyroid Nodule Segmentation on TN3K', IEEE International Conference on Signal Processing, Information, Communication and Systems (SPICSCON 2025).
- Lecturer Zia Md Galib Ul Alim, along with three co-authors, published a conference paper titled 'DuoPath-SPGNet: Dual-Path Strip-Pyramid Gated U-Net for Robust Thyroid Nodule Segmentation on DDTI', 2025 IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON).
- Lecturer Zia Md Galib Ul Alim, along with five co-authors, published a conference paper titled 'Multi-modal Brain Tumor Segmentation Using Attention and Residual-Enhanced 3D U-Net Architectures,' in Proceedings of the IEEE International Conference on Computer and Information Technology (ICCIT), Bangladesh, 2025.

PUBLICATIONS

CONFERENCE PAPER

ME DEPARTMENT

- Md. Mursalin Nabil, Mahmud Khan Tamim, Orko Basak, Md. Khairul Momin Nihal, Shah Maksul Minar, and Md. Ramim-Ul Hasan has published a Conference paper titled 'Stability Modeling of CuO-ZnO-MWCNT/DW Tri-Hybrid Nanofluid Using Response Surface Methodology' in proceedings of the 8th International Conference on Mechanical Engineering and Renewable Energy 2025 (ICMERE2025), Chittagong University of Engineering & Technology (CUET), Chattogram, Bangladesh.
- Mohammad Tarequl Islam, Md Insiat Islam Rabby, Md. Shofiul Alam Shanto, Md. Sifat Khan, Md. Abdullah Al Kawser and Sadik Simanto has published a Conference paper titled 'Impact of Insulations on Thermal Comfort Inside a Military Tent' in proceedings of the 8th International Conference on Mechanical Engineering and Renewable Energy 2025 (ICMERE2025), Chittagong University of Engineering & Technology (CUET), Chattogram, Bangladesh.
- Md. Ramim-Ul Hasan, Tanjimur Rashid, Md. Emdadul Hoque, Muhammad Aziz, and Md. Sanowar Hossain published a journal paper titled 'Dispersion stability of a water-based ternary hybrid nanofluid with Al₂O₃, CuO, and graphite: an experimental and RSM modeling approach' in the International Journal of 'Next Research' on 9 July 2025.
- Nelay Kumar Das, Arup Das, Tasfia Fairuz Nuha, Syeda Tanjila Sarwar, and M Monjurul Ehsan has published a journal paper titled 'Numerical and machine learning investigation of mixed convection in a corrugated enclosure with dual rotating cylinders and variable port arrangements' in the International Journal of Next Research in December 2025.
- Rahikim Tanzim, Arup Das, Syed Nasif Zaman, Tasmia Azmi Lia, and Syeda Tanjila Sarwar has published a journal paper titled 'A chromosome-inspired fin structure for microchannel heat sinks: CFD driven XGBR, ANN, and MLR models for thermal and fluid flow prediction' in the International Journal of 'International Communications in Heat and Mass Transfer' in December 2025.
- Arup Das, Syeda Tanjila Sarwar, Swarna Veronica Rozario, Nelay Kumar Das, and Mohammad Rejaul Haque has published a journal paper titled 'Numerical analysis of geometric and flow effects on lid-driven enclosure heat transfer with correlation and VIF evaluation' in the International Journal of 'International Communications in Heat and Mass Transfer' in December 2025.
- Md. Ramim-Ul Hasan, Tanjimur Rashid, Md. Emdadul Hoque, Muhammad Aziz, and Md. Sanowar Hossain has published a journal paper titled 'Dispersion Stability of a Water-based Ternary Hybrid Nanofluid with Al₂O₃, CuO, and Graphite: An Experimental and RSM Modeling Approach' in the International Journal of 'Next Research' in September 2025.
- Ahmed Ahnaf Saqafi, Afnan Sadia, Al Amin Rashid Tarek, Abdul Alim, Farzana Yeasmin Tuly, and Md. Anisur Rahman has published a journal paper titled 'Investigation of the Mechanical Properties of Repurposed-Net-Bag Reinforced Plastic' systems' in MIST International Journal of Science and Technology.

BME DEPARTMENT

- Lecturer Saira Binte Awal, along with five co-authors, published a conference paper titled 'Eye-Controlled Mouse Cursor and Adaptive Graphical User Interface for Disabled Individuals', Proceedings of the 2025 International Conference on 'Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA)', IEEE, on 24 September 2025.
- Lecturer Saira Binte Awal, along with five co-authors, published a conference paper titled 'Comparative biomechanical analysis of shape-closed and force-closed femoral stems in total hip arthroplasty', Proceedings of the 2025 IEEE '6th KhPI Weekon Advanced Technology', on 06 October 2025.

PUBLICATIONS CONFERENCE PAPER

BME DEPARTMENT

- Lecturer Faria Tasnim, along with five co-authors, published a conference paper titled ‘Eye-Controlled Mouse Cursor and Adaptive Graphical User Interface for Disabled Individuals’, Proceedings of the 2025 International Conference on ‘Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA)’, IEEE, on 24 September 2025.
- Lecturer Faria Tasnim, along with five co-authors, published a conference paper titled ‘Comparative biomechanical analysis of shape-closed and force-closed femoral stems in total hip arthroplasty’, Proceedings of the 2025 IEEE ‘6th KhPI Weekon Advanced Technology’, on 06 October 2025.
- Lecturer Nashitun Haque, along with five co-authors, published a conference paper titled ‘Comparative biomechanical analysis of shape-closed and force-closed femoral stems in total hip arthroplasty’, Proceedings of the 2025 IEEE ‘6th KhPI Weekon Advanced Technology’ on 06 October 2025.

Sc & Hum DEPARTMENT

- Taslima Mohsina Mimi, ‘Impact of Social Media on Consumer Culture among the Youths of Bangladesh’. 05th International Conference on Intangible Cultural Heritage (ICICH 2025), Jointly organized by the Department of Anthropology, University of Sri Jayewardenepura and SAARC Cultural Center, Sri Lanka, Date: 19 and 20 September, 2025, Venue: University of Sri Jayewardenepura, Srilanka (Online participation).
- Md. Nahul Rahman, Taslima Mohsina Mimi & Mohammad Tammam Saad, ‘Dhaka Eid Procession 2025: Revitalizing an age old intangible festive heritage of the Mughal and Bengal Sultanate’. 05th International Conference on Intangible Cultural Heritage (ICICH 2025), Jointly organized by the Department of Anthropology, University of Sri Jayewardenepura and SAARC Cultural Center, Sri Lanka, Date: 19 and 20 September, 2025, Venue: University of Sri Jayewardenepura, Srilanka (Online participation).
- Rifah Afia Ibnat & Tahiya Akter, ‘Inscribing the Female Bodies: Gendered Resistance and Cultural Rebellion in Ngũgĩ wa Thiong’o’s Novels’. National Symposium ‘La Luta Literária: Ngũgĩ and the Battle for Language and Liberation’, organized by the Department of English and Humanities, University of Liberal Arts Bangladesh (ULAB), Dhaka. Date: 31 July 2025, Venue: University of Liberal Arts Bangladesh (ULAB), Dhaka.
- Ferdous Jahan Antee, Dr kazi Hanium Maria, Iffat Nur Esha, Nazrul Islam khan, International conference on Perovskite semiconductor: From Fundamental to Devices, Date: 08 to 10 September 2025, Venue : Konstanz, Germany.
- Nahreen Saleha Shahadat, ‘Microaggressions of Linguistic Encirclement: An Exploration of Anglicized Renaming through the Lens of Ngugi wa Thiong’o’. National Symposium ‘La Luta Literaria: Nugugi and the Battle for Language and Liberation’ organized by University of Liberal Arts, Bangladesh (ULAB) on 31 July 2025.
- Rifah Afia Ibnat, ‘Performativity in Crisis: Subaltern Women, Climate Disasters, and the Gendered Politics of Survival in South Asia’. 10th Annual Conference on Social Research in Bangladesh organized by the Bangladesh Institute of Social Research (BISR) Trust, Date: 8 November 2025. Venue: National Academy for Planning and Development (NAPD), Dhaka.
- Rifah Afia Ibnat, ‘Performing Resistance: Gender, Ethics, and Sustainability in South Asian Literary Narratives of Crisis’. International Conference on Challenges and Trends in Arts and Social Sciences (ICCTASS 2025), organized by the Faculty of Arts and Social Sciences, American International University–Bangladesh (AIUB), Date: 11 to 12 December 2025. Venue: American International University–Bangladesh (AIUB), Dhaka.

Chief Patron : Major General Md Nasim Parvez, BSP, ndc, afwc, psc
Commandant, MIST

Editor in Chief : Colonel Sanjeev Delwar, psc
Director, Research and Development Wing, MIST

Asst Editor : Major Md Riadul Islam, psc, Inf
General Staff Officer-2 (R&D)
Research and Development Wing, MIST

: Major Kazi Imtiaz Kabir, SGP, Engrs
General Staff Officer-2 (ARSTC)
Research and Development Wing, MIST

: Major Md. Manwarul Haq, M Phil, PhD, AEC
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