



MIST newsletter

Technology for Advancement

Military Institute of Science and Technology

16th Year

July - December 2016

Issue 29

COMMANDANT'S GLOSS



It is indeed a matter of great satisfaction that MIST is publishing its 29TH issue of newsletter. MIST started its journey on 19 April 1998 with the motto "Technology for Advancement". Keeping this motto ahead, It has now 12 departments. In the 2nd half of this year many academic, social and administrative events took place. Among those the 18th Council of MIST was the most significant event which was held on 18 Dec 2016. I express my heartfelt thanks and gratitude for the sincere effort of the faculties and officials to make MIST as "Centre of Excellence". The editorial board of MIST Newsletter deserves appreciation.

CHANGE OF COMMAND



Major General Md Abul Khair, ndc, PEng took over as Commandant MIST on 10 October 2016. He has taken over the Command from Brigadier General K M Salzar Hossain, ndc, psc. Before joining MIST as Commandant he was the surveyor General of Bangladesh.

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18TH MEETING- COUNCIL OF MIST



The 18th council meeting of MIST was held on 18 December 2016 at Central Conference Room of General Mustafiz Tower, MIST. Education Minister Mr. Nurul Islam Nahid, MP presided over the meeting. Commandant MIST Major General Md Abul Khair, ndc, PEng welcomed the Minister. In the meeting, approval of corrected post graduate ordinance of MIST, conduct of level-1 program of MIST from 2016-17 at BNA, arrival of BAF cadets at the 3rd year of training and studying 2nd year of engineering program at MIST, information of corrected curriculum-2016 regarding MIST undergraduate admission test and important discussion and decision was taken regarding selection of number of seats for admission in the academic session 2016-17. Chief of Army Staff, Chief of Naval Staff, Chief of Air Staff, Principal Staff Officer Armed Forces Division, VC BUP, Engineer-in-Chief, high ranking representatives of Dhaka University, BUET, Ministry of Defence, Ministry of Education, Ministry of Information and Communication Technology were present in the meeting.

28TH MEETING OF GOVERNING BODY



The 28th meeting of the Governing Body of MIST was held on 28 November 2016 at Central Conference Room of General Mustafiz Tower, MIST. Commandant MIST Major General Md Abul Khair, ndc, PEng presided over the meeting. Engineer in Chief Bangladesh Army Major General Md Siddiqur Rahman Sarker, SGP, hdmc, psc, high officials from civil and military, representatives from DU, BUET and BUP were present in the meeting.

51ST ACADEMIC COUNCIL MEETING



The 51st meeting of the Academic Council of MIST was held on 03 November 2016. Commandant MIST Major General Md Abul Khair, ndc, PEng chaired the meeting. Representatives from DU, BUET, Ministry of Education, Ministry of Defence and Ministry of Finance, Armed Forces Division, Army, Navy and Air Force were present in the meeting.



CIVIL ENGINEERING FEST-2016



Civil Engineering department of MIST celebrated a day long festival for the 1st time on 20 October 2016. The Festival started with a colorful rally in the morning around the MIST premises. A seminar was organized at multipurpose hall of MIST. Honorable Mayor Anisul Haque graced the seminar as the chief guest. Major General Abu Sayeed Md Masud and Prof Mehedi Ahmed Ansari were present as keynote speakers. Head of CE Department, Col Shah Md Muniruzzaman presented a paper at the seminar. The seminar ended with cake cutting by the guests, Commandant MIST Major General Md Abul Khair, ndc, PEng, Faculty members and students. Different competitions like Mechanics Olympiad, Truss Challenge, poster presentation and project showcase were arranged with the participation of students from different universities. Prizes were given to winners of these competitions in the closing ceremony arranged in the evening. The fest finally ended by a colorful cultural program in the evening.

AERO DAY- 2016



Realizing the necessity and future flourishing, Aeronautical Engineering Department of Military Institute of Science and Technology (MIST) started its journey from January 2009. Aero day, founding anniversary of the department of the Aeronautical science at MIST was observed on 01 September 2016. The day is celebrated with different contests and Olympiad where around 100 students took part. Acting commandant of MIST Brigadier General K M Salzar Hossain, ndc, psc were chief guest at the prize giving ceremony.



SEMINAR ON CLOUD COMPUTING GNSS (GLOBAL NAVIGATION SATELLITE SYSTEM) AND CAMPAIGNING ON EATL (ETHICS ADVANCED TECHNOLOGY LIMITED) PROTHOM ALO APPS CONTEST-2016



The Department of CSE organized seminar on “**Cloud Computing and Global Navigation Satellite System (GNSS)**” were held on 11 August 2016. Acting Commandant of MIST Brigadier General K M Salzer Hossain, ndc, psc graced the occasion as the Chief Guest. Dean Faculty of ECE Brigadier General Md Shohail Hossain Khan, psc and Dr. Md Zahidul H. Bhuiyan, a Senior Researcher from Finnish Geospatial Research Institute, Finland were present as special Guest.



Beside a Campaign on “EATL-Prothom Alo Apps Contest-2016”- was held on 11 August 2016. Dr A.K. Abdul Momen, Former Perm Rep of Bangladesh to the UN was the Chief Guest, Mr. pallav Mohaimen, Dy Feature Editor, Daily Prothom Alo and M A Mubin Khan, MD, EATL were present as Special Guest in the seminar.

3RD INTERNATIONAL CONFERENCE ON “ELECTRICAL ENGINEERING AND INFORMATION & COMMUNICATION TECHNOLOGY (iCEEICT 2016)



The 3rd International Conference on “**Electrical Engineering and Information Technology (iCEEICT 2016)**” aims to bring together leading academic scientists, researchers, scholars to exchange and share their experiences, research results about all aspects of Electrical Engineering, ICT and discuss the practical challenges encountered and the solutions adopted. It was held in 22-24th September 2016 at MIST premises. The conference is jointly organized by the EECE department of MIST and Institute of Information Technology (IIT) of Jahangirnagar University, Savar, Dhaka. About 600 papers were submitted and 200 papers were presented in oral session and poster session. There was also a project show and industrial exhibition. About 40 project proposals were submitted and best 10 projects were selected for the project display. Best 3 papers, best 3 posters and best 3 projects were awarded. There were also Plenary Sessions, Tutorial Session and Industrial Exhibition in the 3 days long conference. Professors, researchers and emerging young professionals from home and abroad took part in this conference. The 3 days long venture ended with a splendid cultural show and “Gala Dinner”.





“BANGLADESH INTERNATIONAL CONFERENCE FOR BIOMEDICAL STUDENTS & YOUNG DOCTORS (BICOBS) 2016”



“Bangladesh International Conference for Biomedical Students & Young Doctors (BICOBS), 2016” was jointly organized at MIST on 23-24 December 2016 by Biomedical Engineering Department of MIST and Asian Medical Students Association (AMSA). Dr. Mashiur Rahman, Adviser, Economic Affairs to the Honorable Prime Minister, the People's Republic of Bangladesh was the Chief Guest at this conference. Commandant MIST Major General Md. Abul Khair, ndc and other high officials of Bangladesh Army, renowned scientists, senior physicians, young doctors and students of Biomedical Engineering attended this conference. While addressing as Chief Guest Dr. Mashiur Rahman highlighted the importance of Biomedical Engineering for the development of medical sector in Bangladesh. The aim of this two-day long conference was to establish bridge between Medical Professionals and Biomedical Engineers for ensuring better health of Bangladeshi nationals and elevate them internationally.

WORKSHOP ON “NON DESTRUCTIVE TESTING (NDT) AND CONDITION MONITORING (CM) APPLICATION IN SHIP BUILDING INDUSTRY”



NAME Department organized a Workshop on “Non Destructive Testing (NDT) And Condition Monitoring (CM) Application in Ship Building Industry” on 29 October 2016 at MIST. Commodore Md. Munir Hassan (E), BN chaired the session. Md. Faruque Hossain Chowdhury, Head NDT Division, Atomic Energy Centre graced the session as Chief Guest and Keynote speaker. The officers & engineers of Saj Engineering & Trading Company Ltd delivered theoretical and practical training.



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INAUGURATION OF “POST GRADUATE RESEARCH LAB AND CERTIFICATE AWARDING CEREMONY OF MOBILE APPS DEVELOPMENT SHORT COURSE”



Inauguration of newly established “**Postgraduate Research Lab**” at CSE Department of MIST followed by a “**Certificate Awarding Ceremony**” of recently concluded Mobile Application Development Short Course-2016 conducted by the same department held on 31-August 2016. Honorable State Minister Zunaid Ahmed Palak, MP, Ministry of Post, Telecommunications and Information Technology, Government of the People's Republic of Bangladesh was present in the ceremony as Chief Guest.

The Postgraduate Research Lab is a highly furnished Lab equipped with state-of-the art research facilities in the field of IT. It will offer cutting-edge research opportunities for the researchers at postgraduate level as well as for the faculties. This facility will add a new dimension in the area of high quality research in MIST. It is to be mentioned that the equipment of the Lab has been acquired with the sponsorship of ICT Division.

Following the inauguration, certificates were handed over by the Chief Guest among the participants of a Mobile Apps Development Short Course conducted by CSE Department. Head of the Department, Colonel Humayun Kabir, psc, te co-ordinated the whole event.



SHORT COURSE ON “ADVANCE BRIDGE DESIGN -2016 “



The Department of Civil Engineering (CE) organized a short course on “**Advance Bridge Design-216**” from 23 - 24 September 2016. Dr. A. H. M. Muntasir Billah from PARSONS Inc, Burnaby, BC was the principal resource person for the course. A total of 72 participants took part in the sessions which includes participants from different universities, professionals from government and non-government organizations.

Dr. Billah delivered a series of lectures associated with bridge design with the context of Bangladesh. Besides, practical software application like MIDAS, Seismostruct, Response-2000 and SAP-2000 was also demonstrated side by side. At the end of the course, Brigadier General K M Salzar Hossain, ndc, psc, the then acting Commandant, MIST handed over certificate to each participant.





SHORT COURSE ON DESIGN OF STEEL AND CONCRETE STRUCTURES FOR LATERAL LOADS USING PROPOSED BNBC-2015



The Department of CE organized a short course on “**Design of Steel and Concrete Structures for Lateral Load Using Proposed BNBC-2015**” from 07-08 October 2016. Prof Dr. Khan Mahmud Amanat and Prof Dr. Tahsin Reza Hossain from BUET conducted the course. A total of 70 participants took part in the course which includes participants from different universities, professionals from government and non-government organizations. Both of the resource persons delivered a series of lectures associated with design of steel and concrete for lateral load with the context of BNBC-2015. At the end of the course, a closing ceremony was arranged for handing over the Certificate to the participants.

SHORT COURSES ON “ELECTRICAL SERVICES DESIGN” AND “MICROCONTROLLER AND ROBOTICS”



Department of EECE took the venture for the short courses on “**Electrical Services design**” and “**Microcontroller and Robotics**” during the term end break to equip the students on this widely applied practical field of engineering. Microcontroller is an integral part of modern electronics. The evolution of robotics has opened a new era of applied science. To familiarize our students with this modern technology, Department of EECE has been arranging this course on microcontroller since 2013. On the other hand, Electrical Services Design is a very new short course at MIST to orient the students with the practical engineering knowledge and to improve their engineering design skill. The short courses were inaugurated on 18th and 21st December 2016 respectively. Resource personnel Eng. Shah Alam conducted the “Electrical Services Design” course and the course on “Microcontroller and robotics” was supported by Micro Teq.

SEMINAR ON “MACHINE BRAIN INTERFACE”



IEEE MIST Student Branch with the help and guidance of Department of EECE regularly organizes seminars, industrial tours, job festivals, website design contest, etc. To continue this tradition IEEE MIST Student Branch organized a seminar on “**Machine Brain Interface**” in the month of July 2016. Keynote speaker was Dr. Knondoker Al Mamum, Associate Professor Department of CSE United International University (UIU).



SEMINAR ON “WIRELESS COMMUNICATION ON ENERGY HARVESTING NODES”



Department of EECE arranges a number of conferences, seminars, workshops and short courses on different topics related to Electrical Engineering every year. The aim of these events is to equip the students with modern technology and practical engineering. In the month of August 2016 Dr. Jahangir Hossain, Assistant Professor, University of British Columbia, Canada visited the department of EECE and delivered a lecture on “Wireless Communication with Energy Harvesting Nodes”. The students and all faculty members of EECE attended this

INTERACTIVE SESSION TO “IMPROVISE ENGINEERING ETHICS”



Prof Muhammad H. Rashid is a Life Fellow, Institute of Electrical and Electronics Engineers (IEEE) and Fellow, Institution of Engineering and Technology (IET, UK). In the month of December 2016 he visited Department of EECE and delivered a lecture on “**Trust worthiness and Reliability of Engineering Professionals**”. As a Honorable member of American Society of Engineering Education (ASEE), he made his valuable suggestion about ABATE accreditation. He motivated our members to face crucial professional situations ethically.

“CAMPUS CAREER FESTIVAL- 2016”



Bdjobs Campus Career Festival-2016 was held at MIST on 28-29 December 2016. Commandant MIST Major General Md. Abul Khair, ndc inaugurated the festival as Chief Guest. The event was organized by AE Department. Level 4 students of MIST participated in the event and dropped their CV. The eligible candidates were called on for interview on 29th December 2016. It was a very fruitful event as it helped to make a connection between the students and the various companies.



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INAUGURATION OF “DUTCH BANGLA BANK FAST TRACK”



The inauguration program of “**Dutch Bangla Bank Fast Track**” in MIST campus was held on 02 September 2016. Acting Commandant of MIST Brigadier General K M Salzar Hossain, ndc, psc was the chief guest of the program. Others Deans, Wing Heads, Department Heads, Chairman Mr. Sayem Ahmed and High officials of Dutch Bangla Bank were also present in the occasion.

OBSERVANCE OF “NATIONAL MOURNING DAY”



MIST observed the National Mourning day on 15 August 2016 with the deepest respect and honour on the occasion of the 41st death anniversary of Father of the Nation Bangabandhu Sheikh Mujibur Rahman. The day was a public holiday and the national flag flew at half-mast. Special prayer was offered after Fazr for the departed soul of Bangabandhu. Documentary films were shown and discussion was held highlighting the struggle, achievements and contribution of the Father of the Nation. Everybody urged upon to fulfil Bangabandhu's dream of building a happy and prosperous “Sonar Bangla”.

ADMISSION TEST-2016



MIST conducted undergraduate Admission Test on 12 November 2016 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), Civil, Environmental, Water Resources and Coastal Engineering (CEWCE), Petroleum and Mining Engineering (PME), Industrial and Production Engineering (IPE) programmes. Against 570 vacancies a total of 9973 short- listed candidates appeared the admission test.



VISIT TO MIST



ORIENTATION TRAINING VISIT OF BCS & BJS-68

A 70 member team of 68th batch of BCS & BJS officers visited MIST on 20 July 2016. The team was briefed on different activities and facilities of MIST. After the briefing, they visited CATS-MIST, Faculty of CE, Faculty of ME & Faculty of ECE.

VISIT OF 57 FLIGHT SAFETY OFFICER'S COURSE (FSI)

The 57 Flight Safety Officer's course of FSI, BAF comprising 22 members Visited MIST on 09 October 2016 and attend theoretical and practical classes on aerodynamics jointly with AE Department of MIST.



VISIT OF FLYING INSTRUCTORS SCHOOL (FIS)

A team of officers from Flying Instructors School (FIS) of BAF has visited AE Department of MIST on 10 October 2016. The FIS team attended classes on CFD simulation and aircraft engines. It was a very fruitful event for them to visit MIST.



STUDENTS TRAINING VISIT (IPE DEPARTMENT)–NANNU SPINNING MILLS LTD



Faculty members and students of Industrial and Production Engineering (IPE) Department visited Nannu Spinning Mills Ltd at Narsingdi 06 November 2016. It helped the students to acquire practical knowledge on the functioning and production system of an industry.



INTER-DEPARTMENT FOOTBALL TOURNAMENT-2016



Inter-Department Football Tournament - 2016 was organized by CE Department on 07-18 August 2016. A total of 08 teams participated in this Competition. EECE Department became Champion and ME Department became Runner up respectively. Lt Imran Sarker of ME Department was awarded with both the golden ball and Golden boot. Major Fahim Hossain of EECE became the best goalkeeper. Acting Commandant of MIST Brigadier General K M Salzar Hossain ndc, psc graced the prize giving ceremony as the chief guest.

INTER- DEPARTMENT DEBATE COMPETITION-2016



Inter-Department Debate Competition-2016 was organized by Sc & Hum Department at MIST from 21-29 August 2016. The final day topic was "Discipline, not freedom, is the key to successful engineering study." Eight teams participated in this competition. EECE Department became Champion and NAME Department became Runner-up respectively. SM Monzur Abid (NAME-3) was adjudged as the best speaker. Acting Commandant of MIST Brigadier General K M Salzar Hossain, ndc, psc graced the occasion as the chief guest and awarded the winners.

INTER- DEPARTMENT ANNUAL TABLE TENNIS COMPETITION-2016



Inter-Department Annual Table Tennis Competition-2016 was held from 02-06 October 2016. EECE Department became Champion and CSE Department became Runner-up respectively. Acting Commandant of MIST Brigadier General K M Salzar Hossain, ndc, psc graced the Closing ceremony as the chief guest.

CELEBRATION "RAG DAY-2016" 12 BATCH OF MIST



A one day long farewell celebration for final year students batch-12 of MIST titled as "Rag day-2016" was observed on 10 November 2016 under the overall responsibility of Director Student Welfare (DSW), MIST. Almost two thousand students from MIST including 350 final year students, faculties and staff officers attended the day long event.



ACHIEVEMENT

On 29 July 2016 a competition titled "Truss Challenge" contest of making a truss bridge was held in CENNOVATION-2016 organized by the department of CEE, IUT. In this competition "MIST UNITED" team of CE Department secured 1st position among 28 participating teams from different university of Bangladesh. The truss bridge made by "MIST UNITED" weighted 147gm which is capable of taking 38.4kg load.



12th Global Engineering, Science and Technology Conference

23 – 24 December, 2016, BIAM Foundation, Dhaka, Bangladesh

Best Paper Certificate

Certified that "Experimental and Analytical Assessment of Reinforced Concrete Column Jacketing: A Simplified Investigative Approach" Authored Major Riaz Mahmud of Military Institute of Science & Technology (MIST), Bangladesh and others has won best paper award at the above international conference.

Congratulations for this achievement!

Prof. Dr. Mohammad Hoque

Conference Chair and President of Global Institute of Science and Technology, Australia

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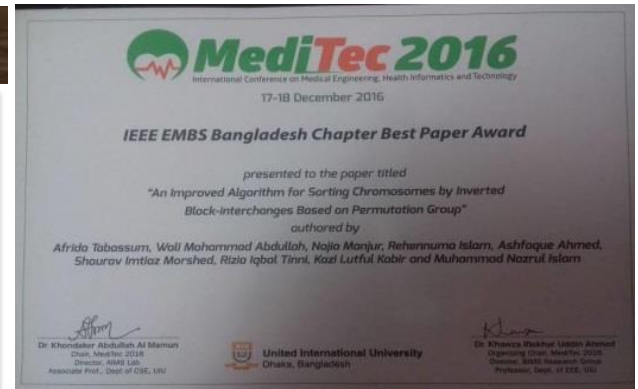
Global Institute of Science and Technology, Australia
Journal of Modern Science and Technology
Global Science and Technology Journal

BEST PAPER AWARD-INTERNATIONAL CONFERENCE

Major Riaz Mahmud, Engrs of Civil Engineering department received the best paper award in 12th Global Engineering, Science and Technology Conference for his research work on Structural Retrofitting titled "Experimental and Analytical Assessment of RC Column Jacketing". This research was supervised by Major Kh Sakil Ahmed, PhD, PEEng who is an associate professor of Civil Engineering Department.

BEST PAPER AWARD PUBLISHED

A research paper from three faculty members (Wali Mohammad Abdullah, Najia Manjur, and Muhammad Nazrul Islam) of this department has awarded as IEEE EMBS Bangladesh Chapter Best Paper Award (2nd Runner-up) in International Conference on Medical Engineering, Health Informatics and Technology (MediTec 2016), which was held at UIU, Dhaka on 17 & 18 December 2016.



RESEARCH PAPER PRESENTED

A Research Article on – "Towards Developing a Cost-Effective Battle Command System in Reaching the Future Soldiering System" presented in a conference of Future Soldier System in Czech Republic on 20 & 21 October 2016. This Research Article Presented by a faculty member and a student officer of CSE Dept.