



MIST newsletter

Technology for Advancement

Military Institute of Science and Technology

14th Year

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Issue 27

CHANGE OF COMMAND



Major General Md Abdul Quadir took over the charge of Commandant, MIST on 29 September 2015. Earlier commandant Major General MdSiddiqurRahmanSarkeris posted to Army Headquarters as the Engineer in Chief. Special darbar and pritibhoj were arranged in honour of outgoing Commandant.

17TH COUNCIL MEETING



The 17th council meeting of MIST was held on 22 Nov 2015 at MIST, Mirpur Cantonment. The meeting was chaired by MrNurul Islam Nahid, MP, Education Minister, Ministry of Education.



In the meeting, some important decisions were taken regarding commencement of post graduation (M Phil and PhD) programmes under Nuclear Science & Engineering and Biomedical Engineering department, inception of two new departments (Industrial and Production Engineering, Petroleum and Mining Engineering) in 2015-2016 academic year, manpower recruitment and estimation of other expenses, approval of policy regarding honorarium and length of service for recruited permanent civil faculties, purchase of land to construct new residential hall for students and inclusion of members for Academic Council, Governing Body and Council of MIST etc.

Chief of Army Staff, Chief of Naval Staff, Chief of Air Staff, Principal Staff Officer of Armed Forces Division, Engineer-in-Chief of Bangladesh Army, VC BUP, representatives of Dhaka University, BUET, Ministry of Defence, Ministry of Education, Ministry of Information and Communication Technology were present in the meeting.

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25TH MEETING OF GOVERNING BODY



The 25th meeting of the Governing Body of MIST was held on 12 Aug 2015 at Military Institute of Science and Technology (MIST). Major General Md Abdul Quadir, Engineer in Chief, Bangladesh Army presided over the meeting. Commandant MIST Major General MdSiddiqurRahmanSarker, SGP, hdmc, psc, high civil and military officials and representatives from University of Dhaka and Bangladesh University of Engineering and Technology (BUET) were present in the meeting.

Important decisions were taken in the meeting in respect of recruiting Lecturer, Asst Professor, Professor for 2015-2016 academic year, reformation of admission qualification and number of seats, introduction of new departments, course curriculum and syllabus for MSc and PhD programmes of Biomedical Engineering Dept and Nuclear Science and Engineering Dept, arrangement of seminar, conference, exhibition, competition and workshop etc.

26TH MEETING OF GOVERNING BODY



The 26th meeting of the Governing Body of MIST was held on 27 October 2015 at Military Institute of Science and Technology (MIST). Major General Md Abdul Quadir, Commandant MIST presided over the meeting. Engineer in Chief, Bangladesh Army, Major General MdSiddiqurRahmanSarker, SGP, hdmc, psc, high civil and military officials and representatives from University of Dhaka and Bangladesh University of Engineering and Technology (BUET) were present in the meeting.

Important decisions were taken in the meeting in respect of contractual Professor for 2015-2016 academic year, reformation of CATS-MIST policy, inclusion of member in regulatory bodies meeting, evaluation committee for research work and arrangement of seminar/ conference/ exhibition/ competition and workshop etc.

49TH ACADEMIC COUNCIL MEETING



The 49th meeting of the Academic Council of MIST was held on 4 Aug 2015. Commandant MIST Major General MdSiddiqurRahmanSarker, chaired the meeting. Representatives from University of Dhaka, BUET, Ministry of Education, Defence and Finance, Armed Forces Division, Army, Navy and Air Headquarters were present in the meeting.

Various important academic issues like opening new department from 2015-16 academic session, approval of course curriculum & syllabus for PhD and MSc Programmes, recruitment of Asst Professor, Professor etc were discussed in the meeting.

OBSERVANCE OF NATIONAL MOURNING DAY



MIST observed the National Mourning day on 15 Aug 2015 with the deepest respect and honour on the occasion of the 40th death anniversary of Father of the Nation Bangabandhu Sheikh MujiburRahman. 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. Commandant, Major General MdSiddiqurRahmanSarker, faculty members, students and all ranks of MIST attended the programme.

“INTERNATIONAL CONFERENCE ON COMPUTER AND INFORMATION TECHNOLOGY (ICCIT)”



The 18th “International Conference on Computer and Information Technology (ICCIT-2015)” was held at MIST, from 21-23 Dec 2015 under the arrangement of Computer Science and Engineering Department of MIST. Major General Tarique Ahmed Siddique (ret'd), Security Affairs Advisor to Honorable Prime Minister, Government of the People's Republic of Bangladesh graced the inauguration ceremony as the Chief Guest. Hon'ble State Minister Zunaid Ahmed Palak, MP, ICT Division, Ministry of Posts, Telecommunications & Information Technology, Govt of the People's Republic of Bangladesh was present in the closing ceremony as the Chief Guest. Chief of Bangladesh Air Force, Air Marshal Abu Esrar was the Special Guest. Engineer-in-chief of Bangladesh Army Major General MdSiddiqurRahmanSarker was present as the Chief Patron of the conference. In this conference researchers and professionals from both academia and industry from USA, Canada, Australia, Korea, China, India, Malaysia, Turkey and Germany along with Bangladesh had participated for sharing up-to-date knowledge and experience in the field of ICT.

INTERNATIONAL CONFERENCE ON "CLIMATE CHANGE AND WATER SECURITY"



A day long International conference on "Climate Change and Water Security (ICCWS-2015)" was held at MIST on 27 Dec 2015 at the General Mustafiz Multipurpose Hall. Renowned researchers from Bangladesh, India and Canada attended the conference.

The Chairman of University Grants Commission, Professor Abdul Mannan graced the occasion as the chief guest and DrAinunNishat was the special guest. The newly introduced Environmental, Water Resources, and Coastal Engineering Department of MIST organized the conference. The purpose of this conference was to make a common platform for the professionals, academicians and entrepreneurs who are working for resolving environmental issues especially in Bangladesh. Researchers and academicians presented various research papers containing different modern technologies and techniques to combat the water scarcity problems. The special guest and renowned climate change specialist DrAinunNishat gave valuable speech regarding the global climate change and its bad effects in the developing countries like Bangladesh. The audience were highly benefitted and inspired from those technical papers and young students showed their keen interest to do research works further.

CERTIFICATE AWARDING CEREMONY OF "BASIC ICT TRAINING FOR BEPZA OFFICIALS"



The Certificate Awarding ceremony of "Basic ICT Training for BEPZA Officials" was held from 13 Sep 2015 - 29 Oct 2015 at MIST. Major General MohdHabiburRahman Khan, Executive Chairman, BEPZA was the Chief Guest of the ceremony. About 108 participants attended this training programme. The Purpose of the programme was to prepare the BEPZA officials efficient in using office applications like word processing, spread sheet, presentation programmes and Internet and Web browsing. The training included the fundamentals of computer application software MS Word, MS Power point, MS Excel and computer networking.

INTERNATIONAL CONFERENCE ON ADVANCES IN “CIVIL INFRASTRUCTURE AND CONSTRUCTION MATERIALS (CICM)”



A 2-day long International Conference on Advances in “Civil Infrastructure and Construction Materials (CICM)–2015” was held at Military Institute of Science and Technology (MIST) from 14-15 Dec 2015. In this conference researchers and professionals from both academia and industry from USA, UK, Canada, Australia, Brunei, Hong Kong, India and Malaysia along with different organizations of Bangladesh participated for sharing up-to-date knowledge and experience in the fields of Civil Engineering and Construction Materials.

Honorable Minister MrObaidulQuader, MP, Ministry of Road Transports and Bridges, Government of the People’s Republic of Bangladesh graced the inauguration ceremony as the Chief Guest and Senior Secretary of Ministry of DefenceKaziHabibulAwal was the Special Guest. Commandant, MIST was the Chief Patron of this conference. Vice-Chancellor of University of Asia Pacific Prof DrJamilur Reza Chowdhury was the Chair of the Steering Committee of the conference. Colonel Shah MdMuniruzzaman coordinated the overall organizational activities of this conference.

Honorable Minister Engr. MosharrafHossain, MP, Ministry of Housing and Public Works, Government of the People’s Republic of Bangladesh was the Chief Guest of the Closing Ceremony. Besides Quarter Master General of Bangladesh Army was the special guest in the occasion.

It is to mention that this conference is the first of its kind in Bangladesh. Canadian Society of Civil Engineering (CSCE), International Association for Bridge and Structural Engineering (IABSE), Computers and Structures Incorporated (CSI) and S-Frame Software were the partner organizations of this conference.

SHORT COURSE ON "FLUID POWER AND CONTROL SYSTEM"



Aeronautical Engineering Department of MIST organized a short course on "Fluid Power & Control System" from 28 Jul 2015 - 6 Aug 2015 in association with SINCOS Engineers Ltd. This course provided a unique opportunity to understand theory underlying the control systems & fluid power and their practical applications in different civil industrial sectors as well as military sector especially for military vehicles like tanks, ships and aircrafts. This short course mainly focused on pneumatic and electro pneumatic control theory and their real time application in the field of automation technologies in industries in order to help and encourage the participants. Students got an opportunity in applying their theoretical knowledge in real time applications and solve real time problems involved in automation technologies in industries. The course was offered to faculty and students of MIST, and officers of Bangladesh Army, Bangladesh Navy and Bangladesh Air Force.

LECTURE SESSION ON "BRAIN MACHINE INTERFACE"



On 29 Jul 2015 a lecture session on "Brain Machine Interface (BMI)" was arranged by the Department of CSE, MIST. Brigadier General Md. Shahidul Alam, Dean, Faculty of ECE, MIST graced the occasion as the Chief Guest & Dr. Khondaker Abdullah Al Mamun, Associate Professor, Department. of CSE, United International University, and Director, Advanced Intelligent Multidisciplinary Systems (AIMS) Lab was the speaker in that event. The objective of the programme was to introduce the recent advancement of different alternative modalities and methods of Human Machine Interface (HMI) and Brain Machine Interface (BMI) technology and it's ranges of real life applications.

SEMINAR ON "BIOSAFETY AWARENESS: A PATHWAY TO IMPROVED PUBLIC HEALTH"



A seminar on "Biosafety Awareness: A Pathway to Improved Public Health" was held on 5 Aug 2015 organized by Biomedical Engineering Department at MIST. The seminar was graced by Syed Monirul Islam, Secretary, Ministry of Health & Family Welfare as the chief guest. Consultant surgeon general of the Bangladesh Armed Forces, Maj Gen Dr HR Harun was present as special guest. The seminar was chaired by Commandant MIST, Maj Gen SiddiqurRahmanSarker. Besides national speakers, Mr. Petrus Paolo Carbonell and Zharmaine Joy Solivet from ESCO, Singapore, were present as invited speakers. All the speakers delivered speech on different aspects of Biosafety with highest importance. Subsequently, all agreed on establishing a national guideline on implementing Biosafety practices in all laboratories, diagnostic centers and Hospitals across the country in order to stop laboratory, diagnostic centers and Hospitals acquired infections.

SEMINAR ON "NUCLEAR ENERGY IN BANGLADESH AND SAFETY ISSUES"



In view of the increasing environmental concerns related to power production using fossil fuels, nuclear technology is important in future for sustainable energy system. In this Purview, a seminar on "Nuclear Energy in Bangladesh and Safety Issues" was held on 20 August 2015 at MIST organized by Department of Nuclear Science and Engineering (NSE) of MIST. Architect Yeafesh Osman, Hon'ble Minister, Ministry of Science & Technology graced the occasion as the chief guest. MrMahmudulHasan, Member, Physical Science, Bangladesh Atomic Energy Commission (BAEC), attended as a Special Guest and Major General SiddiqurRahmanSarker, Commandant MIST, were present in this seminar. The event was attended by more than 300 participants from different organizations. Renowned academicians, professors, researchers, two keynote speakers and students also joined the seminar.

Presentations on different topics were given by renowned professionals from Bangladesh Atomic Energy Commission and AREVA GmbH of Germany.

ACCREDITATION OF AE DEPT



The Board of Accreditation for Engineering & Technical Education (BAETE) visited MIST from 20-22 Oct 2015. Prof. Dr. Md. Fazlillahi, former VC, IUT led the visiting team. The board finally approved the accreditation of Aeronautical Engineering programme of MIST for a period of three years. BAETE is the professional body that gives accreditation to Engineering programmes in Bangladesh.

NEW PROGRAMMES IN NSE & BME

The inauguration ceremony of the 1st Batches of M.Sc and PhD programmes of the faculty of Nuclear Science and Biomedical Engineering of MIST was held on 2 Nov 2015. Major General Md. Abdul Quadir, Commandant, MIST was the Chief Guest of the ceremony. Faculty Deans, Wing/Dept Heads, other faculties, students of the 1st Batches of M.Sc and PhD programmes of NSE and BME were present in the ceremony. Commandant welcomed the newcomers and emphasized on maintaining quality education at MIST.



DELEGATION VISIT TO MIST



VISIT OF SRI LANKAN STAFF COLLEGE DELEGATION

A six member delegation of Sri Lankan Staff College led by Major General GVDUA Perera, RWP, RSP, USP, USAWC, psc, Commandant, Sri Lankan Staff College visited MIST on 5 Jul 2015.

VISIT OF TURKISH ARMED FORCES DELEGATION

A four member delegation of Turkish Armed forces led by Major General HalukSahar, visited MIST on 6 Jul 2015.



DELEGATION VISIT TO MIST



VISIT OF BCS & BJCS OFFICERS

A 60-member team of 66th batch of BCS & BJCS Officers visited MIST on 29 Jul 2015. The team was briefed on different activities and facilities of MIST. After the briefing, they visited MIST premises including library, classrooms, and laboratories.

VISIT OF QATAR EMIRI CORPS OF SIGNAL DELEGATION

A six member delegation of Qatar Army led by Major General Ali Ismail H. Al-Zeyara, Commandar, Qatar EMIRI Corps of Signal visited MIST on 2 Aug 2015.



VISIT OF INDIANA (PURDUE) UNIVERSITY DELEGATION

A Three member delegation of Indiana (Purdue) University led by Prof Ahmed Mustafa, Director, Life Science research Center and Mr. Brain RecharMylrea, Director, International Education, Indiana (Purdue) University, USA visited MIST on 7 Dec 2015.

VISIT OF JAPANESE AMBASSADOR TO MIST

A two member delegation led by H.E Mr Masato Watanabe, Japanese Ambassador, in Bangladesh visited MIST on 8 Dec 2015.



VISIT OF QATAR MILITARY DELEGATION

A four member delegation of Qatar Army led by Major General Yakub Ali Al-Kazem, Comd, Qatar Corps of Engr, visited MIST on 22 Dec 2015.

COMPETITION

INTER-DEPT DEBATE COMPETITION-2015

Inter-Dept Debate Competition-2015 was organized by Sc& Hum Dept at MIST from 7-14 Oct 2015. The final day topic was 'Cultural Aggression through Satellite Channels is a Serious Threat to our Cultural Heritage. Six teams participated in this competition. EECE Dept became the Champion and CSE Dept became the Runner-up respectively. Lt Nur Mohammad, (L), BN (EECE-10) was adjudged as the best speaker. Dean Faculty of ME, Brigadier General MdLutforRahman graced the occasion as the chief guest and awarded the winners.



INTER-DEPT FOOTBALL COMPETITION-2015

Inter-Dept Football Competition-2015 was held from 13 Sep - 05 Oct 2015. Civil Engineering Dept became the champion and Aeronautical Engineering Dept became the Runner-up in the tournament. MohdMezanurRahman (CE-14) became the best player of the Competition. Director R&D, Brigadier General MdShohailHossain Khan, graced the occasion as the chief guest.

INTER-DEPT VOLLEYBALL COMPETITION -2015

Inter-Dept Volleyball Competition-2015 was held from 06-10 Sep 2015. Seven teams participated in this competition. CE Dept became the Champion and EECE Dept became the Runner-up respectively in male group. CE Dept became the Champion and AE Dept became the Runner-up respectively in female group. Dean Faculty of ME, Brigadier General MdLutforRahman graced the occasion as the chief guest.

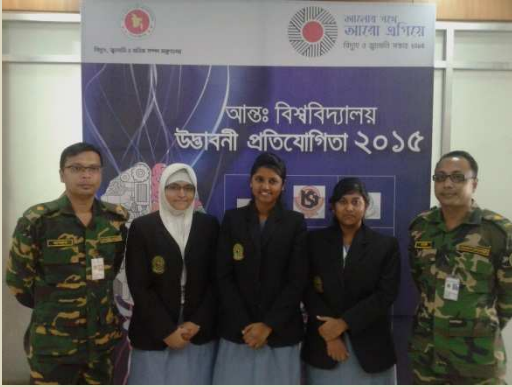


INTER-DEPT TABLE TENNIS TOURNAMENT-2015

Inter-Dept Table Tennis Competition-2015 was held from 16-20 August 2015. EECE Dept became the Champion and ME Dept became the Runner-up respectively. Dean Faculty of ME, Brigadier General MdLutforRahman graced the occasion as the chief guest.



ACHIEVEMENT



A team of 4 students of Biomedical Engineering Department exhibited their outstanding performance in a scientific competition under National Power Week from 10-13 Dec 2015 organized by Ministry of Power, Energy and Mineral Resources. The team developed a prototype of a Solar Powered Automated Vehicle for Disabled Person. The team secured 4th position among hundreds of participants. If financial support is provided, the team is confident enough and committed to developing the real solar powered automated vehicle for disable person that can be relatively cheaper than the existing ones.

The research paper, "Towards User-Intuitive Web Interface Sign Design and Evaluation a Semiotic Framework", submitted by Major Muhammad Nazrul Islam, PhD, Sigs of CSE Dept was accepted and published in a highly prestigious International Journal, International Journal of Human-Computer Studies (IJHCS) by Elsevier on 26 Oct 2015. It would be pertinent to mention that IJHCS is a world leading Journal in the field of Human-Computer Interaction (HCI), and having the impact factor of 1.83 and SNIP of 2.129.

	International Journal of Human-Computer Studies	
ELSEVIER	Volume 86, February 2016, Pages 121-137	
Towards user-intuitive web interface sign design and evaluation: A semiotic framework ☆		
Muhammad Nazrul Islam ^a	Harry Bouwman ^{a, b}	

ADMISSION TEST-2015



MIST conducted undergraduate Admission Test on 13 Nov 2015 for Civil Engineering (CE), Computer Science and Engineering (CSE), Electrical, Electronic and Communication Engineering (EECE), Mechanical Engineering (ME), Aeronautical Engineering (AE), Naval Architecture and Marine Engineering (NAME), Bachelor of Architecture (B. Arch), Biomedical Engineering (BME), Nuclear Science and Engineering (NSE), Environmental, Water Resources and Coastal Engineering (EWCE), Petroleum and Mining Engineering (PME), Industrial and Production Engineering (IPE) programmes. Against 555 vacancies a total of 7286 short-listed candidates appeared in the admission test.

MOU SIGNING CEREMONY



MOU SIGNING CEREMONY BETWEEN MIST & DBBL

AnMoU was signed between MIST and Dutch Bangla Bank Ltd (DBBL) on 10 Dec 2015. Major General Md Abdul Quadir, Commandant MIST, Mr K S Tabrez, Managing Director DBBL, Senior officers of MIST and officials of DBBL were present in the ceremony.

MOU SIGNING CEREMONY BETWEEN MIST & IEST

AnMoU was signed between Military Institute of Science and Technology (MIST) and Indian Institute of Engineering Science & Technology (IEST) on 10 Sep 2015 at MIST. Prof Ajoy Kumar Roy, Director, IEST and Commandant MIST, Major General Md Siddiqur Rahman Sarker were present in this ceremony.



MOU SIGNING CEREMONY BETWEEN MIST & ICT

AnMoU was signed between Military Institute of Science and Technology (MIST) and ICT Division, Ministry of Post, Telecommunication and Information Technology, Bangladesh on 20 Sep 2015. Zunaïd Ahmed Palak, MP, Honourable State Minister, ICT Division, Ministry of Posts, Telecommunications & information technology, Govt of the People's Republic of Bangladesh and Commandant MIST, Major General Md Siddiqur Rahman Sarker were present in this ceremony.

MOU SIGNING CEREMONY BETWEEN MIST & ACTIVE FINE CHEMICALS

AnMoU was signed between Military Institute of Science and Technology (MIST) and Active Fine Chemicals (AFC) on 3 Nov 2015. Major General Md. Abdul Quadir, Commandant MIST, was the Chief Guest of the programme. Major General Md. Mustafizur Rahman, Director General, DGDA, Ministry of Health & Family Welfare, Government of the People's Republic of Bangladesh graced the event as special guest.



MOU SIGNING CEREMONY BETWEEN MIST & BSMRMU

AnMoU was signed between Military Institute of Science and Technology (MIST) and Bangabandhu Sheikh Mujibur Rahman Maritime University (BSMRMU) on 16 Aug 2015 at MIST. Rear Admiral A S M Abdul Baten, Vice-Chancellor, BSMRMU and Major General Md Siddiqur Rahman Sarker, Commandant MIST, were present in the ceremony.