



MIST newsletter

Military Institute of Science and Technology

17th Year

Jan - Jun 2018

Issue 32

COMMANDANT'S GLOSS



It is indeed a matter of great satisfaction that MIST is publishing its 32nd issue of newsletter. MIST started its journey on 19 April 1998 with the motto **"Technology for Advancement"**. Keeping this motto ahead, it has now 13 departments. In the 1st half of this year many academic, social and administrative occasions took place. Among those the 16th graduation ceremony was the most significant event which was held on 31 January 2018. 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.

16th GRADUATION CEREMONY



As the Chief Guest the Honourable Education Minister handed over certificates and medals to new graduates of MIST on the occasion **16th Graduation Ceremony** of B.Sc in Engineering Degree on 31 January 2018. Ministers, MPs, Chief of Army Staff, E-in-C, Secretaries, Ambassadors, Vice-Chancellors, professors of different universities, high ranking civil and military officials were present in the ceremony. A total no of 514 students completed their graduation in this year. Amongst them 437 were civil, 76 military and 1 foreign students. Nafisha Nubayaatt Haq of Naval Architecture and Marine Engineering Department was awarded Osmany Memorial Gold medal for outstanding academic result.

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56th AND 57th MEETING- ACADEMIC COUNCIL OF MIST

The 56th and 57th meetings of the Academic Council of MIST were held on 15 March and 27 June 2018 at MIST respectively. Commandant MIST Major General Md Abul Khair, ndc, PEng chaired the meeting. Representatives from DU, BUET, Ministry of Education, Ministry of Defence, Armed Forces Division, Army, Navy and Air Force were present in the meeting.



LAUNCHING CEREMONY OF ACADEMIC SESSION 2017-18



Launching ceremony of academic session 2017-18 of MIST was held on 14 February 2018. MIST welcome all the young engineering students including their guardians in the ceremony. There were interactive sessions for the guardians with MIST authority and orientation with MIST campus. As per plan academic session 2017-18 was started from 18 February 2018. More than 570 students (both military and civil) joined MIST in level-1 in different disciplines. The disciplines are CE-20, CSE-18, EECE-16, ME-16, AE-10, NAME-6, BME-4, Arch-4, NSE-4, EWCE-4, IPE-3 and PME-3.

ROBOLUTION



MIST Robotics Club has been arranging a nation-wide robotics competition named **“Robolution”** where students from various colleges and universities participate sportingly. This year also this extremely thrilling competition was being arranged by the club under the direct supervision of EECE Department. This was inaugurated on 24 March, 2018 where Prof. Dr. Mohammad Kaykobad, Department of CSE, BUET was present as Chief Guest. Young stars from all over the country participated in a wide variety of competitions such as, i-fight, line-follower, quad-copter challenge, poster presentation, projects etc. The competition was closed on the same day following the motivational speeches by the honorable Chief Guest and prize giving ceremony among the winners.

MIST PROJECT FAIR-2018

Research and Development (R&D) Wing of MIST organized “**MIST Project Fair -2018**” from 16 to 17 January 2018. Brigadier General Md Abdul Wohab, ndc, PEng Director, Research and Development Wing MIST graced the occasion as Chief Guest. A team of external members from BUET, UIU and internal members of MIST worked in the project evaluation committee. 12 teams of different departments with their innovative research work participated in this fair. “**Smart Street Light Control System**” of EECE Department was awarded as the Best Project.



ARCHITECTURE FESTIVAL-2018



The Department of Architecture organized an “**Architecture Festival-2018**” from 3 to 4 February 2018 at MIST. Commandant MIST graced the event as the Chief Guest and the Chief Architect, Ministry of Housing and Public Works Department was present as the Special Guest.

In addition more than 100 participants from different Universities, a good number of scholars, professionals, advisors and researchers across the country attended the two days long program. A Project Exhibition of Students of Architecture Department was also organized.

SEMINAR ON “CONTEMPORARY STRUCTURAL ENGINEERING CHALLENGES”

The Department of Civil Engineering of MIST organized a Seminar on “**Contemporary Structural Engineering Challenges**” held on 5 April 2018. Prof. Dr. Aziz Ahmed from School of Civil, Mining and Environmental Engineering of the University of Wollongong, Australia was the resource person. Approximately 60 Faculties and Students joined the seminar.



SEMINAR ON “PERFORMANCE ASSESSMENT OF BURIED PIPELINES”

The Department of Civil Engineering of MIST organized one day seminar on “**Performance Assessment of Buried Pipelines**” by Prof. Dr. Ashutosh Sutra Dhar held on 18 April 2018. Prof. Dr. Ashutosh is working as a faculty in Civil Engineering Department of Memorial University of Newfoundland, Canada. Approximately 62 Faculties and Students joined the seminar.



SEMINAR ON “PROSPECT OF INTERNET OF THINGS (IOT) IN DEFENCE RESEARCH AND DEVELOPMENT”



The Department of Computer Science and Engineering of MIST organized a Seminar on “**Prospect of Internet of Things (IoT) in Defence Research and Development**” on 15 March 2018 in Multipurpose Hall, General Mustafiz Tower. Students of all levels and Faculties participated in this seminar.

SEMINAR ON “IMPLEMENTATION OF CLASSIFICATION SOCIETY (IACS) RULES IN SHIP CONSTRUCTION OF BANGLADESH: IMPORTANCE AND CHALLENGES”



On 20 March 2018, Naval Architecture and Marine Engineering Department hosted a Seminar titled “**Implementation of Classification Society (IACS) Rules in Ship Construction of Bangladesh: Importance and Challenges**” In the above mentioned Seminar, respected secretary of Ministry of shipping Md. Abdus Samad was present as a Chief Guest. Also Mr. Abdullah Hil Baree, chairman of Ananda shipyard and Slipways Ltd and Mr. Obaid Bashir, Chief surveyors of LR were present as Keynote speakers. The seminar was a big success and all the students and faculty members of NAME Department, participated with great enthusiasm.

“AQUAawareness”- A SEMINAR AND EXHIBITION

The Department of EWCE of MIST arranged “**AQUAawareness**” A Seminar and Exhibition on the occasion of World Water Day 2018 on 1 April 2018, Renowned water resources specialist Dr. Ainun Nishat graced the occasion as Chief Guest and Dr. Atiq Rahman was special guest. Students from different universities took part in quiz competition, poster presentation and other events.



SEMINAR ON “HIGHER STUDY IN USA AND EMK MAKERLAB OVERVIEW”



A seminar on “**Higher Study in USA and Emk Makerlab Overview**” was organized by Directorate of Student Welfare on 7 May 2018. The purpose of the seminar was to enrich students with scholarship information to pursue higher education. Mr Ruhul Amin, Coordinator, USA Education Outreach, EMK Centre was present as the keynote speaker.

WORKSHOP ON “SUBSTATION PLG, DESIGNING AND COMMISSIONING OF POWER SYSTEM ANALYSIS (ETAP)”

The Department of Electrical Electronic and Communication Engineering of MIST organized Workshop on “**Substation Plg, Designing and Commissioning of Power System Analysis (ETAP)**” on 10 March 2018. The workshop was conducted by professionals from Innova EPC Ltd. The purpose of the workshop was designed to enhance theoretical and practical knowledge on power system along with basic training for industrial automation.





WORKSHOP ON “ROBI BD APPS DEVELOPER PROGRAMS”

The Department of Computer Science and Engineering of MIST organized workshop on “**Robi BD Apps Developer Programs-2018**” on 16 May 2018. Students of Level-3 participated in this workshop.



WORKSHOP ON “BASIC SOLIDWORKS”



Solidworks is a part of an integrated approach to get automotive parts from design to manufacturing and is one of the simplest ways to accelerate the product development process. Keeping this note a Workshop on “**Basic Solidworks**” was organized from 22 April to 16 May 2018 by MOTOMIST Automotive Club which is under the supervision of ME department. On the closing ceremony an automobile quiz competition was arranged.

WORKSHOP ON “SUPPLY CHAIN MANAGEMENT AND PTAK PRIZE-2018”

A workshop on “**Supply Chain Management and Ptak Prize-2018**” was organized by Directorate of Students Welfare on 24 May 2018. The purpose of the workshop was to give an idea to the students about supply chain management, encourage them to participate in Ptak Prize-2018 and earn scholarship through it. Mr Ejazur Rahman, CEO, Mind Mapper Bangladesh, Managing Director, ISCEA Asia was present as the keynote speaker.



SHORT COURSE ON CISCO CERTIFIED NETWORK ASSISTANCE (CCNA)-2018



Department of Computer Science and Engineering, MIST organized Short Course on “**Cisco Certified Network Assistance (CCNA)-2018**” from 23 March to 19 May 2018. Duration of this course was eighteen days forty five hours. Students of Level-4 participated in this course.

SHORT COURSE ON “ADVANCED PLUMBING DESIGN”

EWCE Department organized a short course on “**Advanced Plumbing Design: Theory and Practice**” from 24 February - 1 March 2018. Professor Delwar Hossain of BUET and Azizul Huq Additional Chief Engineer, PWD (Retd) were the Resource Persons. Academicians and professionals from different universities and institutions attended the course.



SHORT COURSE ON “LIQUID PETROLEUM GAS (LPG) PLANT CONSTRUCTION AND OPERATION”



On 6 March 2018, a short course on “**Liquid Petroleum Gas (LPG) Plant Construction and Operation**” was organized by the Department of Petroleum and Mining Engineering of MIST. Engr. Jakaria Jalal, General Manager, Bashundhara LP Gas Ltd; Mr. Md Tariqul Islam, Senior Assistant Manager of Navana LPG Ltd. and Ms. Adeeba Rahman Setu, Sales Engineer of Makeen Energy Bd Ltd. successfully conducted this short course as resource persons. All Level-3 students of PME Department gathered profound knowledge on LPG Plant construction, management and operation, LPG business scenario as well as future employment scope in this widely emerging LPG sector.

SHORT COURSE ON “PETROLEUM RESERVOIR MODELING BY ECLIPSE AND PETREL SOFTWARE”

On 20 March 2018, the Department of Petroleum and Mining Engineering organized a short course on “**Petroleum Reservoir Modeling by Eclipse and Petrel Software.**” This short course was conducted by industry specialists from Petrobangla: Mr Md Abdus Sultan, General Manager, Mr Md Jahangir Kabir, Manager and Ms Tania Sultana, Deputy Manager. The main focus of this short course was hands on training, data processing, data correction, test run and industry applications of Eclipse and Petrel software.



SHORT COURSE ON “COMPTIA A+ 2018”

Department of Computer Science and Engineering, MIST organized short course on “**Comptia A+ 2018**” from 18 February to 8 March 2018. Duration of the short course was one hundred twenty contact hours. Students of Level-1 participated in this course.



DELEGATION VISIT

ORIENTATION TRAINING VISIT OF BCS AND BJS-71

A 50 member team of 71st batch of BCS and BJS officers visited MIST on 8 March 2018. The team was briefed on different activities and facilities of MIST. After the briefing, they visited Faculty of CE, Faculty of ECE and Faculty of ME.



VISIT OF OFFICE OF DEFENSE COOPERATION (ODC), USA

A two member delegation team of Defense Cooperation (ODC), USA visited MIST on 7 June 2018. They visited Department of AE. The visit was concluded by a gift handover session with Commandant MIST.



STUDENTS TRAINING VISIT

VISIT OF NAVANA ENGINEERING LTD. AND WALTON HI-TECH INDUSTRIES LTD.

On 5 May, 2018 students from Level-2 of Mechanical Engineering Department paid a day long visit to Navana Engineering Ltd and Walton Hi-Tech Industries Ltd. During their visit they had the chance to explore plastic manufacturing process, waste management system, refrigeration unit, compressor unit, LED manufacturing unit. This short trip helped the students to relate their theoretical knowledge with the hands-on industrial experience.



OBSERVANCE

20th RAISING DAY OF MIST

20th Raising Day of MIST was observed on 16 June 2018. Eidul Fitr was also held on the same day. The day started with a special prayer after Eid Jamat. Commandant and all members of MIST attended in Pritibhoj and cake cutting ceremony on that day. Starting the academic activities with a maiden batch of Civil Engineering in 1999, MIST now stands with 13 Departments under 4 Faculties.



OBSERVANCE OF BIRTHDAY OF "FATHER OF THE NATION"



MIST organized a special program in observance of the 99th Birth anniversary of **"Father of the Nation"** Bangabandhu Sheikh Mujibur Rahman on 17 March 2018. It started with munajat after Fazar prayer. Still photographs on Bangabandhu and Liberation War were displayed. A discussion was arranged under the arrangement of Head, PME Department, Col Nasir Uddin Ahmed. Biography of Bangabandhu and his significant contribution to the Independence of Bangladesh were focused in the program.

HEALTH RUN- 2018



Health Run- 2018 was held on 28 March 2018. The event was conducted as a part of the curriculum conducted in the entire Bangladesh Army. Students, faculty members and all staff of MIST participated in the event. Commandant MIST Major General Md Abul Khair, ndc, PEng graced the occasion as the Chief Guest.

COMPETITION

INTER-DEPARTMENT CULTURAL COMPETITION AND NOBIN BARON-2018

Inter Department Cultural Competition and Nobin Baron-2018 was organized by R&D Wing from 25 February to 1 March 2018 which was under the direct assistance of EECE, CSE Departments, DSW and ICT Directorate. This competition which is being arranged each year to provide the scope to all the students to exhibit their latent potentials has become one of the most popular extra-curricular activities among many others. The lucrative competition came to an end on 1st March, 2018 with CE Department Champion and EECE Department as the Runner-up.



INTER-DEPARTMENT CRICKET COMPETITION-2018



Inter Department Cricket Competition-2018 was held on 11 March, 2018. One team from each of CE, CSE, EECE, ME, AE and NAME Department and two mixed teams from Arch, PME & IPE and EWCE, NSE & BME participated in the competition. The exciting competition came to an end on 19 March, 2018 with EECE department being the champion and AE Department became runner-up.

INTER- DEPARTMENT ATHLETICS COMPETITION-2018

Inter-Department Athletics Competition-2018 took place from 4 to 8 March 2018 organized by Admin Wing. Participants from all Departments put up their best to win with enthusiasm. There were 100 M Sprint, 200 M Race, 400 M Race, 4 x 100 M Relay Race, 4 x 200 M Relay Race, Discuss Throw, Short-Put, Long Jump and High Jump for male and female athletes. CSE Department became the champion and EECE Department became runner-up.



INTRA MIST PROGRAMMING AND GAMING COMPETITION 2018

Department of Computer Science and Engineering MIST organized “**Intra MIST Programming and Gaming Competition 2018**” on 21 April 2018. Students from various Department of MIST participated in this competition.



ACHIEVEMENT

ELECTION: SOUTH ASIAN CHAPTER- 2018



Mr. Md. Sazzad Hossain, Associate professor, Department of Architecture, MIST, is elected as President of South Asian chapter, Erasmus Mundus Association (EMA) for 2018 -19. Earlier, he was also the elected information coordinator of EMA-South Asian chapter and EMA-Country Ambassador (Bangladesh). EMA is the association of scholars who received scholarship/fellowship from European Union supported Erasmus Mundus program for higher study, scholarly activities etc.

ANNUAL CONFERENCE ON “CANADIAN SOCIETY FOR CIVIL ENGINEERING- 2018”



BSS 8923 Captain Muntahith Mehadil Orvin, Engrs, Instr Cl 'C' from Civil Engineering Department, MIST presented a paper entitled “performance evaluation of a four legged intersection using microscopic simulation model” at The Canadian society for civil engineering- 2018 Annual Conference held in Fredericton, NB, Canada from 13 to 16 June 2018 organized by Canadian Society For Civil Engineering (CSCE) and attained certificate.



ACHIEVEMENT

RESEARCH ARTICLES:

- ❖ An article titled "A Proposed system for Automatic Vehicle Monitoring and Accident Detection in Bangladesh" written by Instructor Lt Col Md. Mahboob Karim, Lecturer Tasmiah Tamzid Annanya, Lecturer Sanjida Nasreen Tumpa and 6 students of Department of CSE, MIST has been accepted on the conference "The 4th International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2018)" held from 8 to 9 February 2018 in RUET, Rajshahi.
- ❖ An article titled "A New Algorithm to Compute Single Source Shortest Path in Real Edge Weighted Graph to Optimize Time Complexity" written by Instructor Maj Md. Nazrul Islam, PhD, Lecturer Wali Muhammad Abdullah and 4 students of Department of CSE, MIST has been accepted on the conference "The 17th IEEE/ ACIS International Conference on Computer and information Science (ICIS 2018)" held from 6 to 8 June 2018 in Singapore.
- ❖ An article titled "A Decision Support model to Predict ICU readmission through Data Mining Approach" written by Instructor Maj Md. Nazrul Islam, PhD, Lecturer Toki Tahmid Inan and 2 students of Department of CSE, MIST has been accepted on the conference "The 4th International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2018)" held from 8 to 9 February 2018 in RUET, Rajshahi.
- ❖ An article titled "An Assistive System of Walking for Visually Impaired" written by Instructor Maj Md. Nazrul Islam, PhD, Lecturer Moumita Sarker, Lecturer Nabila Shahnaz Khan and 2 students of Department of CSE, MIST has been accepted on the conference "The 4th International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2018)" held from 8 to 9 February 2018 in RUET, Rajshahi.
- ❖ An article titled "A Proposed System for Automated Electricity Bill Monitoring in Context of Bangladesh" written by Instructor Lt Col Md. Mahboob Karim, Maj Md. Nazrul Islam, PhD, Lecturer Tasmiah Tamzid Annanya and 5 students of Department of CSE, MIST has been accepted on the conference "The 4th International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2018)" held from 8 to 9 February 2018 in RUET, Rajshahi.
- ❖ An article titled "An Efficient Approach of Image Restoration Using Mean Intensity Correlation of Neighboring Pixels" written by Instructor Lt Col Naresh Singh Chauhan, Lecturer Nazia Hossain and 3 students of Department of CSE, MIST has been accepted on the conference "2nd International Conference on Computing Methodologies and Communication (ICCMC 2018)" held from 15 to 16 February 2018 in University of Suraya, India.
- ❖ An article titled "Cost Effective Motion Based Stair Climbing Rover for Rescue Purpose" written by Instructor Lt Col Md. Mahboob Karim, Lecturer Tasmiah Tamzid Annanya and 03 students of Department of CSE, MIST has been accepted on the conference "4th IEEE International Conference on Applied System Innovation 2018 (IEEE ICASI 2018)" held from 13 to 17 April 2018 in Chiba, Tokyo, Japan.