



Conference Program

22 February, 2017 (Wednesday)

Registration and Reception

0800 -1630

0900 - Inauguration Ceremony

1000 Session Chair: Professor Dr Dipak Kanti Das

Keynote Speech-1: Investigation of Bit Vibrations to Enhance Rotary Drilling

[Prof. Stephen D. Butt, Department of Process Engineering, Memorial University of Newfoundland, Canada]

1115- 11:45

Tea Break

Plenary Session-1

Keynote Session-2

Session Chair : Professor Dr Maglub al Noor

Co Chair: Professor Dr Md Alamgir Hossain

**1200 - Keynote Speech-3 by Professor Dr A K M Nurul Amin, Ahsanullah University of
1330 Science and Technology, Bangladesh**

Keynote Speech-4: by Professor Dr MD. ZAHURUL HAQ, PH.D, CEA, FIEB, Department
of Mechanical Engineering, BUET, Bangladesh

Keynote Speech-2: by Professor Dr. Sadiqul Baree, Department of Naval Architecture
and Marine Engineering, BUET, Bangladesh

1330 - 1430

Lunch and Prayer

(Technical Session-I)

Technical Session-01 [NAME]

1430-1600

Session Chair: Professor Dr. Md. Sadiqul Baree

Co-Chair: Asst. Prof. Md. Mezbah Uddin

Venue: Room No. 1

1	DISPLACEMENT POTENTIAL SOLUTION OF A GUIDED DEEP BEAM OF COMPOSITE MATERIALS UNDER SYMMETRIC THREE POINT BENDING *M Muzibur Rahman and S Reaz Ahmed *MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1215
23	STRUCTURAL ANALYSIS OF A SHIP ON GLOBAL ASPECT USING ANSYS *M Muzibur Rahman, Rajia Sultana Kamol and Reyana Islam. *Military Institute of Science & Technology (MIST)
39	Development of a highly maneuverable unmanned underwater vehicle on the basis of quad-copter aerodynamics *Md .Arshadul Karim, Abdullah His Saad and Osman Md .Amin. *MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
40	BLUE ECONOMY AND BANGLADESH -ROLE OF MARITIME PEOPLE *M Golam Mohiuddin and M Muzibur Rahman. *MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
58	*ACCIDENT RESEARCH INSTITUTE (ARI), BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET).
46	Performance Analysis of Forward Blade Centrifugal Fan at Different Impeller Speed *Shadab Malik, Altab Hossain, Shahed Hasan, Aminul Islam and Wasit Safat *MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY

Technical Session-02 [NAME]

1430-1600

Session Chair: Professor Dr Reaz Hasan Khondoker

Co-Chair: Asst. Prof. Mohammad Irfan Uddin

Venue: Room No. 4

201	<p>REASONS AND REMEDIES OF INLAND PASSENGER VESSELS ACCIDENTS IN BANGLADEH</p> <p>*Kaosar Rashid and Muhammad Rabiul Islam</p> <p>*NAVAL INSTITUTE OF TECHNOLOGY, RANGAMATI, BANGLADESH</p>
212	<p>Calm Water Resistance Prediction of a Bulk Carrier Using Reynolds averaged Navier-Stokes based Solver</p> <p>* Md Mashiur Rahaman, Hafizul Islam, Md. Tariqul Islam and Md. Reaz Hasan Khondoker</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000</p>
213	<p>Computational Analysis of Water Entry of a Circular Section at Constant Velocity based on Reynold's averaged Navier-Stokes Method</p> <p>*Mohammad Maruf Uddin, Muzaddid-E-Zaman Fuad, Md Mashiur Rahaman and Muhammad Rabiul Islam</p> <p>*RADIANT SHIPYARD LTD, BANGLADESH</p>
214	<p>Emergence of Inland Container Depots and Inland Container Terminals as a Container Decongestion Strategy of Chittagong Port Authority and Future Projection of Them</p> <p>*Parag Dey, Md. Reaz Hasan Khondoker, Md. Mashiur Rahaman and M. Ziauddin Alamgir</p> <p>*BANGABANDHU SHEIKH MUJIBUR RAHMAN MARITIME UNIVERSITY, BANGLADESH</p>
219	<p>Validation of Numerical Model for Cook Stove using Reynolds averaged Navier-Stokes based Solver</p> <p>*Md. Moinul Islam, Abdullah Al Hasan, Md. Mominur Rahman and Md. Mashiur Rahaman</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000</p>
251	<p>Transitional Behaviour of Thickness Effects in Shipbuilding Materials)MS Plate (</p> <p>*Ikhtiar Mahmud, Amirul HasanRazib and Md .Rabab Raiyatur Rahman.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1215</p>
74	<p>Modelling and Stress Analysis of Tibia-Fibula</p> <p>*Manoj Ghosh, Borhan Uddin Chowdhury, M Subbir Parvej and Dr .Md .Afsar Ali.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>

Technical Session-03 [ME]

1430-1600

Session Chair: Assistant Professor Dr Sumon Saha, BUET

Co-Chair: Lt Col Golam Sakalyen, MIST

Venue: Room No. 3

51	<p>Necessity of Hybrid Electric Vehicle in Dhaka City -lessons learned from literature and practical implications</p> <p>*Md .Zahidul Islam, Md .Ferdous Alam and Dr .Md .Ariful Islam.</p> <p>*SHAHJALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY</p>
64	<p>Feasibility study of Implementing Renewable Energy on an Institutional campus in Bangladesh -A case study</p> <p>*M .S .Islam, Najmul Hoque and M .Rafiqul Alam Beg.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
66	<p>A Techno-economic Analysis of a Solar PV–Diesel–Battery System for Applications in Northern region of Bangladesh</p> <p>*Wasel Rahman, Tanveer Mehedi and Md .Mustafizur Rahman.</p> <p>*ISLAMIC UNIVERSITY OF TECHNOLOGY</p>
67	<p>The Augmentation OF Heat Transfer In a Pipe Flow Using a Swirling Perforated Twisted)SPT (Tape Insert</p> <p>*Shahrokh Ahmad, Sadia Noon Oishe and Dr Md .Lutfor Rahman.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
68	<p>Construction and fixed flywheel weight analysis of a renewable micro hydro-power generation plant.</p> <p>*Md .Shad Rahman, Imtiaz Mohammad Nabil and Dr .Md .Mahbubul Alam.</p> <p>*MEMORIAL UNIVERSITY OF NEWFOUNDLAND</p>
69	<p>A construction of a renewable micro hydro power generation plant</p> <p>*Md .Shad Rahman, Imtiaz Mohammad Nabil and Dr .Md .Mahbubul Alam.</p> <p>*MEMORIAL UNIVERSITY OF NEWFOUNDLAND</p>
76	<p>Experimental Studies of Heat Transfer in A Pipe Flow with A Helical Serrated Twisted Tape Insert</p> <p>*Md .Jahirul Islam Munna, Zannatul Mawa, Tousif Islam and Athkia Maisha.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>

Technical Session-04 [ME]

1430-1600

Session Chair: Professor Dr Abdullah Al Mamun, Malaysia

Co-Chair: Lt Col Md Shariful Islam

Venue: Room No. 4

70	<p>Global analysis of a renewable micro hydro power generation plant</p> <p>*Md .Shad Rahman, Imtiaz Mohammad Nabil and Dr .Md .Mahbubul Alam.</p> <p>*MEMORIAL UNIVERSITY OF NEWFOUNDLAND</p>
71	<p>Feasibility Study of a Micro-Grid Based Biogas Plant of Bangladesh</p> <p>*Nazir Ahammed, Md .Shadman Islam, Kamrul Hasan Suvo, Tanvir Hossain and Mohammad Abdul Mannan.</p> <p>*AMERICAL INTERNATIONAL UNIVERSITY-BANGLADESH</p>
78	<p>STUDY ON THE NUMBER DENSITY OF NANOBUBBLES AT VARYING CONCENTRATION OF ETHANOL IN ETHANOL-WATER SOLUTION</p> <p>*Mahadi Rajib and Parisa Farzeen.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>
81	<p>Myco-coagulant for Turbidity Reduction from River Water</p> <p>*Abdullah Al Mamun.</p> <p>*INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)</p>
86	<p>Waste heat recovery systems for internal combustion engines :A review</p> <p>*Amit Arefin, Mahadi Masud, Mohammad Joardder, Monjur Mourshed, Naim Hasan and Fazlur Rashid.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
89	<p>Prospect of Solar-PV/Biogas/Diesel Generator Hybrid Energy System of an Off-Grid area in Bangladesh .</p> <p>*Soumya Mandal, Hosna Yasmin, M .R .I .Sarker and M .R .A .Beg.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
82	<p>CFD Analysis and Comparison of Performance of Shell-and-Tube Heat Exchangers with Conventional Segmental Baffles and Continuous Helical Baffle</p> <p>*Asif Ahmed, Anuruddha Bhattacharjee and Sumon Saha.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>

Technical Session-05 [AE]

1430-1600

Session Chair: Wg Cdr Saifur Rahman Bakaul, PhD BAF

Co-Chair: Kh. Md Faisal, MIST

Venue: Room No. 5

2	<p>COMPARISON OF COMPLEMENTARY AND KALMAN FILTER BASED DATA FUSION FOR ATTITUDE HEADING REFERNECE SYSTEM</p> <p>* Tariqul Islam,Md.Saiful Islam, Md.Shajid-UI -Mahmu and Md Hossam -E-Haider.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
9	<p>The Application of Ceramic Matrix Composite Augmenting the Performance of Aero Engines -A Literature Review.</p> <p>*Farzana Yeasmin, Mosarruf Hossain, Kamruzzaman Hridoy and Md Tanzimul Hasan.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY</p>
13	<p>Design Point Optimization of a Ground Attack Bomber</p> <p>*Motiur Rahman, Md .Shariar Imroze Khan and Mohammad Sadman Sakib.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
16	<p>Utilization of sonar technology and microcontroller towards reducing aviation hazards during ground handling of aircraft.</p> <p>*Mosammat Samia Khanam, Debasish Biswas, Mohsina Rashid and Abdus Salam.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
17	<p>Comparative Study of Aircraft Approach and Landing Performance Using ILS, MLS and GLS</p> <p>*Mohsina Rashid, Mahbuba Ferdous, Mst .Mowsumie Akhter China and Mohammed Hossam-E Haider.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
106	<p>Optimization of Design Particulars for Ship with Iterative Optimization Methods</p> <p>*Abul Kalam Faruk and Mohammad Sayem Bin Abdullah.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)</p>
130	<p>DEVELOPING AN AUTONOMOUS H-SHAPED SURVEILLANCE QUAD COPTER</p> <p>*Swapnil Das, Saikat Dey, Md. Arif-UI Islam Khan and Sajal Chandra Banik.</p> <p>*CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>

Technical Session-06 [AE]

1430-1600

Session Chair: Wg Cdr Dr Deshpande, India

Co-Chair: Lt Col Md Shamsul Alam, MIST

Venue: Room No. 6

19	<p>Performance Analysis of Wireless Channel Models by Evaluating BER for Different Modulation Schemes</p> <p>*Mst .Mowsumie Akhter China, Mohsina Rashid, Mahbuba Ferdous and Mohammed Hossam-E Haider.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
21	<p>Aerodynamic Characteristics of NACA-2412 Airfoil Section With Upward and Downward Deflection of Flap</p> <p>*Naumi Noshin Chowdhury, Nanzeeba Tabassum and Md Tanzimul Hasan Farabi.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
28	<p>An Optimized Design Point Estimation of “Tactical Bomber” Aircraft</p> <p>*Md.Shafiul Islam Bijoy, Md.Saiful Islam, Md.Shajid-UI -Mahmud and Md .Abdus Salam.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
37	<p>Simulation and Design Analysis of an Unmanned Aerial Vehicle (UAV)</p> <p>*Abu Sufian Saif, Md .Ashiquzzaman, Debanan Bhadra and Md.Imran Nur.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
38	<p>Investigation on Performance Analysis of Gas Turbine Engine and CFD Simulation on different components of Gas Turbine</p> <p>Abu Sufian Saif, Md .Ashiquzzaman, Dianath Kabir and Md .Imran Nur.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
73	<p>Proposed Design for Automated Agro-quadcopter “Agro-ropter”</p> <p>*Shuvro Barman, Redhawan Rouf, Shajaratul Islam and Mahmudul Hasan.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
132	<p>Study on the Selection of Propulsive Machinery for Repowering of a Patrol Craft</p> <p>*M Muzibur Rahman, A H Yusuf Mridha and Kazi Sakib Ahsan.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY (MIST)</p>

Technical Session-07 [IPE]

1430-1600

Session Chair: Professor Dr AKM Nurul Islam, AUST

Co-Chair: Lt Col Khabirul Islam, MIST

Venue: Room No. 7

18	<p>Roundness and taper of hole during drilling composites of various thickness by HSS drill bit under dry condition.</p> <p>*Mahbuba Ferdous, Motiur Rahman, Santanu Mallik, Mohammad Sadman Sakib and Nikhil Ranjan Dhar.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
72	<p>A review on Application of Nanofluid MQL in Machining</p> <p>*Mustafa Rifat, Md .Habibor Rahman and Debashish Das.</p> <p>*UNITED INTERNATIONAL UNIVERSITY</p>
75	<p>Study on effects of Mn substitution in Cobalt ferrite</p> <p>*M Z Ahsan and F A Khan.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
85	<p>Single Degree Motion Control Using Magnetic Levitation System</p> <p>*Monjur Mourshed, Fazlur Rashid, Avijit Sarker, Md .Emdadul Hoque and Mahadi Masud.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
107	<p>Experimental study on the production and characterization of particle-board from the pseudo-stem of banana plant</p> <p>*Md. Ashiqur Rahman, Ashraful Alam Jimmim and Md. Takvirul Alam Khan Shourav.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY(BUET)</p>
113	<p>Bulletproof Vests/Shields Prepared from Composite Material Based on Strong Polyamide Fibers and Epoxy Resin</p> <p>*Remon Ashraf and Mostafa Radwan.</p> <p>*THE BRITISH UNIVERSITY IN EGYPT</p>
134	<p>Water Quality Parameters of Padma River Water near Rooppur Nuclear Power Plant Site</p> <p>*Md Nur Salam, Md. Saifur Rahaman, Md. Razzak, Harun Ar-Rashid, Md. Muminul Haque and Dr. Ruhul Amin Khan.</p> <p>*BANGLADESH ATOMIC ENERGY COMMISSION</p>



Technical Session-08 [ME]

1430-1600

Session Chair: Maj Md Faisal Kader, PhD, BMA

Co-Chair: Assistant Professor Istiaque Mahmud, MIST

Venue: Room No. 8

254	Development and Analysis of a Solar Powered Motorcycle *Md .Monjur Rahman. *MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1215
256	Designing an Optimal Sourcing Strategy from Multiple Suppliers with Alternative Quantity Discounts Model-A Case Study *Md Mashum Billal, Syed Abu Taher, Tazrin Jahan Priyanka and Md .Mosharraf Hossain. *RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY
257	Instantaneous Charging & Discharging Cycle Analysis of a Novel Supercapacitor based Energy Harvesting Circuit . *Sharsad Kara Kuni, Dr .Md Shahrukh Adnan Khan, Dr .Mahmudul Alam, M .Abdullah Al-Amin and Masum Howlader. *UNIVERSITY OF NOTTINGHAM MALAYSIA CAMPUS
261	Mixed Convection Heat Transfer Simulation in a Rectangular Channel with a Variable Speed Rotational Cylinder *Md. Imran Khan, Md. Mamun Billah, Mohammed Mizanur Rahman and Mohammad Nasim Hasan *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000
265	Fabrication of a biomass stove and conversion of electricity from waste heat using TEG. *Md. Mahmoodul Haque, Imteaz Osmani, Md. Asad Hossain, Md. Mominul Haque and Lt. Col. Humayun Kabir Bhuiyan. *MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1215
266	Membraneless Micro Fuel Cell – A Review Dewan Hasan Ahmed Ahsanullah University of Science and Technology, Dhaka, Bangladesh
267	ENVIRONMENTAL POLLUTION IN BANGLADESH BY INLAND PASSENGER VESSEL OPERATION *Kaosar Rashid, Dr N.M. Golam Zakaria, Imran Khaled, *Bangladesh Navy, Bangladesh

1600- 1630: Snacks: Central Tearoom

(Technical Session-II)

Technical Session 09 [ME]

1630-1800

Session Chair: Maj Md Faisal Kader, PhD, BMA

Co-Chair: Assistant Professor Shabnam Konica, MIST

Venue: Room No. 1

3	An Experimental Model of An Indigenous BCI based system to help Disabled people to Communicate *Kazi Sadman Kabir, Chowdhury M Abid Rahman, Araf Farayez and Mahbuba Ferdous. *AHSANULLAH UNIVERSITY OF SCIENCE & TECHNOLOGY
4	Voice Command Based PC Application for Microcontroller *Md.Saiful Islam, Md.Shajid-UI -Mahmud and Md.Shafiul Islam Bijoy. *MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
5	DESIGN OF AUTOMATED BIODIESEL BLEND PLANT AND ANALYS OF ROTATIONAL EFFECT ON BIODIESEL BLENDS *Dr Md .Alamgir Hossain, Zawad Abedin, Shaurin Maher, Arvil Haldar and Golam Saklayen. *MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
6	A REVIEW ON THE STUDY OF WIND LOADS ON MULTIPLE CYLINDERS WITH EFFECTS OF TURBULENCE AND SURFACE ROUGHNESS *Zawad Abedin, Mousumi Rizia and Sadia Noon Oishe *MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
7	ENERGY SAVINGS OF BATTERY ELECTRIC VEHICLES *Amit Roy and Nirendra Nath Mustafi. *RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY
137	Water quality assessment using water hyacinth: a case study for the Dhanmondi Lake, Dhaka *Md. Mahmudun Nabi, Dr. Md. Delwar Hossain and Dr. Muhammad Enamul Quadir. *IUBAT
153	A Comperative Simulation Analysis of RZ & NRZ Modulation in Wavelength Division Mulplexing for Long Haul Single Mode Fibre *Sharsad Kara Kuni, Md Shahrukh Adnan Khan, Mahmudul Alam, M. Abdullah Al-Amin and Md. Masum Howlader *UNIVERSITY OF NOTTINGHAM, MALAYSIA

Technical Session-10 [ME]

1630-1800

Session Chair: Professor Dr Sadrul Islam, BUET

Co-Chair: Captain H M Khairul Enam, MIST

Venue: Room No. 2

8	<p>Flowsheet Development and Simulation of Ethane Production from Synthesis Gas by using Hysys</p> <p>*Sayed Golam Mohiuddin, Ruhul Amin, Fatema Enam, Syeda Ahammad, Md .Masudur Rahman and Liton Kumar.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
22	<p>Implementation and Validation of Finite Difference Scheme for Transient Mixed Convection in Lid Driven Square Cavity</p> <p>*Anwarul Karim and Sumon Saha.</p> <p>*Bangladesh University of Engineering and Technology</p>
24	<p>A Composition Scheme and Performance Analysis of a Dual Axis Solar Tracker</p> <p>*A .M .Muotasim Reza, Md Sohel Rana, Mohammad Nazmul Basher and M S A A F Shiblee.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
27	<p>A COMPREHENSION TO SOLAR THERMAL-ENERGY STORAGE</p> <p>*Kazi Tahmid Rahman, Md Tariful Islam, Mohshin Habib Moquit and Lt Col Golam Saklayen.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
36	<p>Design and Implementation of a Smart Attendance System Using RFID and Fingerprint Sensor</p> <p>*Radif Uddin Ahmed, Mst Nusrat Yasmin, Mirza Asif Haider, Taieba Taher, Nursadul Mamun, Pradipta Saha and Md .Mushfiqur Rahaman.</p> <p>*CHITTAGONG UNIVERITY OF ENGINEERING AND TECHNOLOGY</p>
169	<p>Robotic Unit Model Proposal for Rescue & Aiding: For Disasters in Bangladesh</p> <p>*Niloy Roy, Md. Imtiaz Abedin, Sumaita Khan Sanila, Sadman Sakib Saumik, Shakil Ahmed, Wali Mohammad Abdullah and Md. Mahbubur Rahman</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1216</p>

Technical Session-11 [ME]

1630-1800

Session Chair: Professor Dr Md Rokunuzzaman, RUET

Co-Chair: Lt Col Golam Saklayen, MIST

Venue: Room No. 3

42	<p>Comparative Analysis of Emission Characteristic and Noise Test of I.C.Engine using Biodiesels Blends</p> <p>*Dr Md Alamgir Hossain, Fariha Binthe Rahman, Maliha Mamun, Sadia Naznin and Adib Bin Rashid.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
43	<p>Comparative Performance Analysis of an I.C.Engine using Biodiesel Blends</p> <p>*Fariha Binthe Rahman, Maliha Mamun, Sadia Naznin, Dr Md Alamgir Hossain and Mst Mousumi Rizia.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
44	<p>Design And Construction Of A Mechanical Motion Rectifier)MMR(</p> <p>*Md.Muzahidul Islam, Aurko Rahman Khan and Sarwar Alam.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
45	<p>Thermodynamic Analysis of an Organic Rankine Cycle)ORC (subjected to Phase Change Phenomenon of the Heat Carrier Fluid</p> <p>*Anup Saha, Mohummad Shariful Islam and Jannatul Ferdous Trisha.</p> <p>*BUET</p>
47	<p>ENERGY AND EXERGY BASED ANALYSIS OF SI ENGINES USING ALTERNATIVE FUELS</p> <p>*Md .Mizanuzzaman.</p> <p>*BANGLADESH MILITARY ACADEMY (BMA), BHATIARY, CHITTAGONG, BANGLADESH</p>
48	<p>Simulation of Combustion Characteristics of Biodiesel Blends using Single Cylinder Four-Stroke Diesel Engine</p> <p>*Fariha Rahman, Maliha Mamun, Sadia Naznin, Dr .Md .Alamgir Hossain and Zawad Abedin.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
176	<p>Variation in Water Quality Level with the Seasonal Changes by Determining Physicochemical and Microbiological Water Quality Parameter of Turag River, Dhaka, Bangladesh</p> <p>*Tahmina Begum, Amisha Chowdhury, Serajum Manir, A H M Kamal, Md Saifur Rahaman, Sharmin Sultana, Md Razzak and Ruhul A Khan</p> <p>*BANGLADESH ATOMIC ENERGY COMMISSION, AGARGAON, DHAKA-1207</p>

Technical Session-12 [NAME]

1630-1800

Session Chair: Major Osman Md. Amin, PhD, Engrs

Co-Chair: Lecturer, Md. Abir Hossain

Venue: Room No. 4

110	<p>Introduction of Bayesian Network in Risk Analysis of Maritime Accidents in Bangladesh</p> <p>*Sohanur Rahman.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)</p>
114	<p>Understanding the Science of Accidents in Engineering and Sociotechnical Systems</p> <p>*Dr. Zobair Ibn Awal, Mehnaz Seraj and Dr. Kazuhiko Hasegawa</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)</p>
120	<p>Container Ship Design: A Parametric Approach to Preliminary Estimation</p> <p>*Mehedi Hasan Bappy, Sharat Chandra Paul and Fawuzul Kabir Moeen.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>
122	<p>EFFECT OF ANALYSIS PARAMETERS ON NON-LINEAR IMPLICIT FINITE ELEMENT ANALYSIS OF MARINE CORRODED STEEL PLATE</p> <p>*Muhammad Rabiul Islam, Md Sakib-UI-Alam and Kazi Kaarima Nazat.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY (MIST)</p>
172	<p>Safety Measurements in Local Passenger Vessels in Bangladesh</p> <p>*Hironmoy Ahmad, Nusrat Jahan and Azharul Hannan</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1216</p>
182	<p>STABILITY CRITERIA ANALYSIS OF A TRADITIONAL BANGLADESH INLAND PASSENGER VESSEL ON THE COMMON BASIS: CRITICAL KG</p> <p>*Muhammad Rabiul Islam, Nusrat Zabin and Shifat Monzur</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1216</p>
177	<p>Navigation system using GPS and GSM for visually impaired personals with nerve stimulation feedback</p> <p>*Sakhawat Hossen Rakib, Atika Farhana, A.H.M. Zadid Karim and Galib Hashmi</p> <p>*UNIVERSITY OF ASIA PACIFIC, FARMGATE, DHAKA - 1215</p>

Technical Session-13 [AE]

1630-1800

Session Chair: Sqn Ldr Tawfiqur Rahman, PhD, BAF

Co-Chair: Gp Capt Abdus Salam, MIST

Venue: Room No. 6

77	<p>Design of Miniature Type Parallel Coupled Microstrip Hairpin Filter in UHF Range</p> <p>*Adib Hasan, Tarikur Rahman, Azizul Kahhar and Tasnim Trina.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
83	<p>Remote Joule Heating characteristic of Carbon Nano Tube (CNT) : (A new approach in aircraft electro-thermal anti-icing system</p> <p>*Mahbuba Ferdous, Mohammad Abu Nayem, Abul Kalam Azad and Tanvir Hassan.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
102	<p>Analysis of Shape Memory Polymer and Scope for Application in Morphing Wing Aircraft</p> <p>*Md. Abdus Salam, Tanzimul Farabi, Sajid Nakvee and Rahul D. Nath.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
131	<p>Comparative Study of Flow Analysis over a National Advisory Committee for Aeronautics (NACA) 0012 Airfoil among Different Computational Software</p> <p>*Md Aktharuzzaman, Md. Asif Iqbal, Md Shafiu Islam and Kh Md Faisal.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
138	<p>In Search of Macro to Micro Processes of Business Jet Aircraft Manufacturing</p> <p>*Ashfaque A. Mohib and Ramit Azad.</p> <p>*AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH</p>
202	<p>Facial Expression Detection using Back-propagation Neural Network</p> <p>*Sagor Chandro Bakchy, Md. Meraj Ali, Sanjir Uddin Shishir, Md. Ashraful Islam and Krishna Chandro Ray</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY, RAJSHAHI-6204, BANGLADESH</p>

Technical Session-14 [AE]

1630-1800

Session Chair: Wg Cdr Despande, India

Co-Chair: Wg Cdr Md Mahbulul Alam, MIST

Venue: Room No. 6

150	<p>Construction of a closed loop wind tunnel and measurement of drag of various geometric models.</p> <p>*Abdus Samad Shohan, Emon Majumder Majumder and Professor Dr M A Taher Ali.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
163	<p>An Arduino Microcontroller Based Digitalization of a Vertical Traversing Mechanism Used for The Analysis of Jet Flows</p> <p>*S.M.Rakibur Rahman, S. M Al Mamun Or Roshid and Ishtiaque Ahmed Nishan</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
164	<p>Design of a Multiple Payload Release Mechanism for Unmanned Aerial Vehicles</p> <p>*Tonmoy Sarker, Md Golam Sarwar, Shahidul Alam Shahed and Hridoy Biswas</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
165	<p>Determination of Tail Design Parameters for Analyzing Stability of a Medium Range Jetliner : A Systems Engineering Approach</p> <p>*S.M.Rakibur Rahman, Md.Golam Sarwar and Ishtiaque Ahmed Nishan</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
166	<p>Design and Construction of A 914 MHz Monopole Blade Antenna</p> <p>*Nazmus Saaquib, Tonmoy Sarker, Naimur Rahman and Pran Kanai Saha</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
168	<p>Design and Simulation of A Micro Strip Antenna For Wearable Devices</p> <p>*Nazmus Saaquib, Tonmoy Sarker and Naimur Rahman</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
204	<p>Recent Trends in Small Signal Stability Analysis</p> <p>*Khandaker Haque and Abdul Chowdhury</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000</p>

Technical Session-15 [AE]

1630-1800

Session Chair: Wg Cdr Saifur Rahman Bakaul, PhD BAF

Co-Chair: Kh. Md Faisal, MIST

Venue: Room No. 7

194	<p>Development of an Experimental Setup for Analyzing the Influence of Magnus Effect on the Performance of Airfoil</p> <p>*Md. Samad Sarker, Wasiul Safa, Nahreen Sharah, Md Akhtaruzzaman, Md. Abdus Salam and Kh. Md. Faisal</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
195	<p>Detail Design of Empennage of an Unmanned Aerial Vehicle</p> <p>*Md. Samad Sarker, Shoyon Panday, Md Rasel, Md. Abdus Salam, Kh. Md. Faisal and Tanzimul Hasan Farabi</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
226	<p>Design of improved navigation for automobile parking system</p> <p>*Kumar Saikat Halder, Al Mahmud and Mofazzol Hasan</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
227	<p>Conceptual Design of improved remote navigation for Drones</p> <p>*Kumar Saikat Halder, Mofazzol Hasan and Al Mahmud</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
228	<p>Optimization of Head up display System in automobiles for navigation</p> <p>*Kumar Saikat Halder, Mofazzol Hasan and Al Mahmud</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
229	<p>Design of improved algorithm for automated production system</p> <p>*Al Mahmud and Kumar Saikat Halder</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
205	<p>Solving Difficult Equations Using Mathematical Induction</p> <p>*Md. Ashraful Islam, Md. Meraj Ali, Md. Sanjir Uddin Shishir, M. Rasel Mahmud and Md. Nura Alam Siddiquee</p> <p>*VARENDRA UNIVERSITY, RAJSHAHI-6204, BANGLADESH</p>



Technical Session-16 [ME]

1630-1800

Session Chair: Associate Professor Dr Dewan Sajjad Ahmed, AUST

Co-Chair: Asst Prof A M Istiaqe Mahbub, MIST

Venue: Room No. 8

90	<p>Prediction of Solid Waste Generation and Finding the Sustainable Pathways in the Dhaka City.</p> <p>*Md.Sazol Ahmmed, Md.Faisal Arif and Md.Mosharraf Hossain.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
91	<p>Flat Plate Solar Collectors for water pre-heating using Concentrated Solar Power)CSP (</p> <p>*Leonard Sunny Peris, Md Al Amin Shekh and Lt Imran Sarkar.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
94	<p>POWER GENERATION FROM SPEED REDUCERS USING RACK-PINION MECHANISM</p> <p>*Md .Rubayat-UI -Islam, A .H .M Faisal and Mohammad Abdul Motaleb.</p> <p>*BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>
95	<p>Production of 6 tons per year of Recombinant Bromelain from Genetically Modified E.Coli Cells</p> <p>*Anika Sarah and Araf Al Rafi.</p> <p>*INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA</p>
97	<p>THERMAL CHARACTERISTICS OF AN ALUMUNUM CLOSED-LOOP PULSATING HEAT PIPE CHARGED WITH AMMONIA</p> <p>*Shahid Haque.</p> <p>*BANGLADESH ARMY</p>
101	<p>Biodiesel production from Neem (Azadirachta Indica) seed oil and performance test of diesel engine using diesel-biodiesel blends</p> <p>*Md. Zihadul Alam, Rumana Subnom and Shahriar Milon.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
208	<p>Laminar Flow and Heat Transfer of a Backward-facing Step</p> <p>*Qazi Talal and Md Shah Masum</p> <p>*KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS, SAUDI ARABIA</p>

Technical Session-17 [ME]

1630-1800

Session Chair: Professor Dr AKM Parvez Iqbal, Malaysia

Co-Chair: Lt Col Shariful Islam, MIST

Venue: Room No. 9

123	FEM Analysis of Halbach Permanent Magnet Slot-type Linear Motor for Actuation of a Robotic Arm *A.K.M. Parvez Iqbal, F.A.M Mokhtar, K.S.M. Sahari and Ishak Aris. *UNIVERSITI TENAGA NASIONAL
103	Design, Implementation and Stabilization of a Bipedal Robot *Alok Nath, Goutam Das, Anik Mallick and Shovan Chowdhury. *UNIVERSITY OF SCIENCE AND TECHNOLOGY CHITTAGONG, BANGLADESH
108	Energy Efficient Designs: Cleaner and Greener Energy Technologies, Sustainable Development and Environment *Abdeen Mustafa Omer. *ENERGY RESEARCH INSTITUTE (ERI), UNITED KINGDOM
209	Instantaneous Charging & Discharging Cycle Analysis of a Novel Supercapacitor based Energy Harvesting Circuit *Dr. Md Shahrukh Adnan Khan, Rajprasad Kumar, Anas Syed and Dr. Mahmudul Alam *UNIVERSITY OF ASIA PACIFIC, FARMGATE, DHAKA - 1215
210	Mixed Convection in a Lid-Driven Cavity with Slot Isoflux Heater at Bottom Wall *Araf Al Rafi, Rahagir Ridwan Anik and Anika Sarah *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000
220	Effect Of Wall-Mounted Obstacles On Mixed Convection Heat Transfer In An Open Channel With Multiple Discrete Heaters *Araf Al Rafi, Rahagir Ridwan Anik and Anika Sarah *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000
221	TRACKING DIFFERENT ANIMAL OR MEN USING THEIR NATURAL FREQUENCIES *Md. Masduzzaman and Earshadul Bari Siddique *CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY, CHITTAGONG-4349, BANGLADESH
264	Optimization of Magnet System for Increasing Steering and Capture Efficiency of Nanoparticles in Magnetic Drug Targeting *Md. Zahirul Islam, Najmus Saquib Sifat and Dr. Sumon Saha *Ahsanullah University of Science and Technology

Technical Session-18 [IPE]

1630-1800

Session Chair: Col M Mustafa Kamal, MIST

Co-Chair: Lt Col Md Awal Khan, BMA

Venue: Room No. 10

197	Property Analysis of Quantum Dot in Semiconductor Nanostructures *Nusrat Irin Chowdhury Mary, Md. Ariful Islam and Nusrat Irin Chowdhury Mary *AMERICAN INTERNATIONAL UNIVERSITY- BANGLADESH, BANANI, DHAKA 1213
211	EFFECT OF SURFACE ROUGHNESS AND VOID FRACTION ON THERMAL TRANSPORTATION OF A SOLID: A MOLECULAR DYNAMICS STUDY *Muhammad Rubayat Bin Shahadat, Ahmed Shafkat Masnoon, Shafkat Ahmed and A.K.M. Monjur Morshed *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000
222	A Facile Route for Synthesis Ni-Fe Nanoparticles by Sonofragmentation Process *Rubayet Tanveer, Brajalal Sinha, M Ziaul Ahsan, Mahabubar Rahman Shah, Md Abdul Basith and Sriramulu Torati *MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1216
224	A Potential Approach for Selecting the Appropriate Spacer Size at Ring Frame for Outstanding Performance of 30 Ne Blended Yarn (CVC) *Md. Nasir Uddin, Md. Mazharul Islam, Md. Tanjim Hossain, Md. Nazmul Islam and Palash Kumar Saha *NORTHERN UNIVERSITY BANGLADESH
249	Analysis of Elastic Field in Functionally Graded Material Beams with Square Cross Section * Manish Agrawal, Md .Al Ahsan, and Md Afsar Ali. *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000
262	EFFECT OF NANOSTRUCTURED SURFACE CONFIGURATION ON EVAPORATION AND CONDENSATION CHARACTERISTICS OF THIN FILM LIQUID ARGON IN A NANO-SCALE CONFINEMENT *S. K. KURI, S. M. RAKIBUZZAMAN, A. SABAH, J. AHMED AND MOHAMMAD NASIM HASAN *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000
263	NUMERICAL STUDY OF TURBULENT CO-AXIAL FREE JETS *K. M. MUKUT, M. NASIM HASAN, S. SAHA AND M. A. TAHER ALI *BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY, DHAKA-1000



23 February, 2017 (Thursday)

Registration and Reception

0800 -1200

Plenary Session-2

Session Chair : Professor Dr Quamrul Islam, MIST

Co-Chair: Professor Mohammad Ali, Department of Mechanical Engineering, BUET

Venue: Multipurpose Hall, GMT

- 0900 -** Keynote Speech-5: by Wg Cdr Deshpande, Indian Air Force, India
- 1030** Keynote Speech-6: by Professor Dr Nikhil Ranjan Dhar, Department of Industrial and Production Engineering , BUET
- Keynote Speech-7: Assistant Professor Dr Azizur Rahman, **Memorial University of Newfoundland, Canada**



(Technical Session-III)

Technical Session-19 [AE]

1100-1300

Session Chair: Wg Cdr Dr Vikram Despande, India

Co-Chair: Lt Col Shamsul Alam, MIST

Venue: Room No. 1

230	Design of flight management system of improved efficiency *Al Mahmud and Kumar Saikat Halder * MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
231	Design of image processing based navigation system for automated car for improving reliability *Al Mahmud, Kumar Saikat Halder and Nazmus Saaquib * MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
232	Introduction of an alternative system for home automation to improve efficiency *Al Mahmud, Kumar Saikat Halder and Nazmus Saaquib * MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
233	Design of multifunction display for training and demonstration purpose *Al Mahmud, Kumar Saikat Halder and Mofazzal Hossain * MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
235	STUDY OF FLOW CHARACTERISTICS OVER AND BEHIND NACA0012 AIRFOIL *Mahfuja -A- Khuda, Sadia Islam, Nusrat Jahan and M. A. Taher Ali * MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
236	STUDY OF THE NATURE OF VARIATION OF VELOCITY BEHIND BODIES OF DIFFERENT SHAPES *Mahfuja -A- Khuda, Sadia Islam, Nusrat Jahan and M. A. Taher Ali * MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
234	Identification and Analysis of the Factors of Safety and sustainability for Ready Made Garment Industry in Bangladesh *Md. Ruhul Amin Mondal, Md. Ahashan Habib and Md. Fazley Elahi * SQUARE FASHIONS LTD. (SQUARE GROUP)

Technical Session-20 [AE]

1100-1300

Session Chair: Professor Dr M A Taher Ali, MIST

Co-Chair: Kh Md Faisal, AE, MIST

Venue: Room No. 2

237	<p>Experimental Study of The Mean Flow Characteristics of Swirling Jet</p> <p>*S.M.Rakibur Rahman, S. M Al Mamun Or Roshid, Ishtiaque Ahmed Nishan and M.A. Taher Ali</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
240	<p>The design of a subsonic closed loop wind tunnel</p> <p>*Mir Md. Nasim Hossain, Rushda Rahman, Mahmud Hasan Anik and M.A. Taher Ali</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
241	<p>DESIGN AND CONSTRUCTION OF A FREE JET NOZZLE SETUP</p> <p>*S.M Al Mamun Or Roshid, S.M.Rakibur Rahman and Ishtiaque Ahmed Nishan.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
244	<p>Determination of coefficient of discharge of nozzle plates</p> <p>*Masum Bellah, Md .Arifuzzaman, Muztahid Muhammad, Md.Saiful Islam and M.A .Taher Ali.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
260	<p>UTILIZATION OF SONAR TECHNOLOGY AND MICROCONTROLLER TOWARDS REDUCING AVIATION HAZARDS DURING GROUND HANDLING OF AIRCRAFT</p> <p>*Mosammat Samia Khanam, Debasish Biswas, Mohsina Rashid and Abdus Salam</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
245	<p>Philosophy of Sustainable Design And its Applications in Future Egyptian Architecture</p> <p>*Dr .Khaled Mohamed Dewidar.</p> <p>*BRITISH UNIVERSITY IN EGYPT</p>
246	<p>Comparative Study on Environmental Contamination Following Nuclear Power Plant Accident</p> <p>*Md.Ghulam Zakir, Abdus Sattar Mollah and Md Altab Hossain.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY, MIRPUR CANTT, DHAKA-1215</p>

Technical Session-21 [IPE]

1100-1300

Session Chair: Professor Dr Nikhil R Dhar, BUET

Co-Chair: Col M Mustafa Kamal, MIST

Venue: Room No. 3

151	<p>Raw Materials Shortage and Their Impact on the Manufacturing Business- An Empirical Study in the Pharmaceutical Sector of Bangladesh</p> <p>*Md. Ariful Islam, Choudhury Abul Anam Rashed and Jahid Hasan</p> <p>*SHAHJALAL UNIVERSITY OF SCIENCE & TECHNOLOG, KUMARGAON, SYLHET-3114, BANGLADESH</p>
154	<p>Observation of rate of erosion of several metals under different conditions using sandblasting process</p> <p>*Saif Rahman Khan, Md. Mueeedur Rahman and Imtiaz Muhammed Nabil</p> <p>*AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, TEJGAON, DHAKA-1208</p>
156	<p>Effect of Phase change material on the heat transfer rate of different building material</p> <p>*Mushfiq Hasan, Shahnur Alam and Dewan Hasan Ahmed</p> <p>*AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, TEJGAON, DHAKA-1208</p>
159	<p>Analysis of Thermoelastic Characteristics of a Thick-Walled FGM Cylinder</p> <p>*Ali Newaz Mohammad Tanvir, Faisal Ahmed, Didarul Islam and Dr. Md. Afsar Ali</p> <p>*BANGLADESH POWER DEVELOPMENT BOARD</p>
175	<p>STRENGTH AND THERMAL ANALYSIS OF RESISTANCE SPOT WELDING OF DIFFERENT MATERIALS</p> <p>*Saikat Dey and Swapnil Das</p> <p>*CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY, CHITTAGONG-4349, BANGLADESH</p>
250	<p>Development of a Reconfigurable Robotic Gripper</p> <p>*Dr.Md.Rokunuzzaman, Md.Zahirul Islam Abir and Rajon Bhuiyan.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
198	<p>Performance Analysis of Axial Flow Fan with Different Fan Installation Position and Variable Tip Clearance</p> <p>*Md.Shahib Abrar, Sadia Islam, Dewan Hasan Ahmed, Rakib Hossain and S.M .Asif</p> <p>*AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, TEJGAON, DHAKA-1208</p>

Technical Session-22 [NAME]

1100-1300

Session Chair: Major Muhammad Rabiul Islam, PhD, EME

Co-Chair: Lecturer, Papia Sultana

Venue: Room No. 4

60	<p><i>Finite Element Analysis of container ship's cargo holds using ANSYS and POSEIDON software.</i></p> <p><i>*Tania Tamiz Tanny, Naznin Akhter and Dr.Osman Md.Amin.</i></p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
61	<p><i>Dredging and Land Reclamation in Bangladesh Perspective: A State-of-the-Art Overview</i></p> <p><i>*Papia Sultana, Dr M Reaz Hasan Khondoker, Md. Mezbah Uddin, Mohammad Irfan Uddin and Md. Abir Hossain</i></p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
62	<p>Fatigue Life Analysis of a Part of Ship Structure Consisting a Plate Welded Joint with a Stiffener</p> <p><i>*Md.Mezbah Uddin, Papia Sultana, Md.Abir Hossain and Mohammad Irfan Uddin.</i></p> <p>*MILITARY INSTITUTE OF SCIENCE&TECHNOLOGY</p>
93	<p>Parameters Sensitivity on Mooring System Design of Ship-Shaped FPSOs</p> <p><i>*Mohammad Saidee Hasan.</i></p> <p>*SONARGAON UNIVERSITY</p>
96	<p>Calculation of Principal Parameters of A Shallow Draft Vessel to be Fitted With Two Surface Piercing Propellers</p> <p><i>*Mohammad Saidee Hasan, Ahammad Abdullah, Muhammad Abu Zafar Siddique and Dr .Zobair Ibn Awal.</i></p> <p>*SONARGAON UNIVERSITY</p>
190	<p>DESIGN AND FABRICATION OF A VAPOR ABSORPTION REFRIGERATION SYSTEM FOR AUTOMOTIVE COOLING UTILIZING EXHAUST HEAT</p> <p><i>*Jabid Ishtiaque, Muhammad Momotazul Islam, Suvro Bhowmick and Am Ishtiaque Mahub</i></p> <p>*Military Institute of Science & Technology, Mirpur Cantt, Dhaka-1215</p>
192	<p>Molecular investigation of naturally occurring bacterial strategy in degrading or detoxifying heavy metals from Buriganga River, Dhaka</p> <p><i>*Abdullah Al Mamun, Md Imranul Hoq, Ruhul Amin Khan, Abu Hena Mostofa Kamal, Tofa Begum and Farjana Akter Koly</i></p> <p>*University of Chittagong, Chittagong-4331, Bangladesh</p>

Technical Session-23 [ME]

1100-1300

Session Chair: Associate Professor Dr Monjur Morshed, BUET

Co-Chair: Asst Professor A M Istiaque Mahmud

Venue: Room No. 5

115	<p>Performance of a Gasoline Engine with a Supercharger.</p> <p>*Minhajul Haque Minar, Mahbub E Mustafa, Pritam Bhowmick, Shahriar Rahman Tanvir and Naimul Haque Abir.</p> <p>*AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY</p>
116	<p>DESIGN AND CONSTRUCTION OF AN OPTIMUM WAVE FLUME WITH A PLUNGER TYPE WAVEMAKER FOR VALIDATION STUDIES</p> <p>*Md. Ishmam Islam, Md. Asiful Islam, Mohammad Asif Hossain and Md. Hamidur Rahman.</p> <p>*ISLAMIC UNIVERSITY OF TECHNOLOGY</p>
117	<p>Influence of internal tube diameter on the operational performance of closed loop pulsating heat pipe.</p> <p>*Fabliha Islam, Fahima Akhter, Sifat Haider and Mohammad Ali.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY</p>
119	<p>EXPERIMENTAL INVESTIGATION ON COUNTER-FLOW INDUCED DRAFT COOLING TOWER AND PERFORMANCE ANALYSIS</p> <p>*Md.Solaiman Hossain Khan, Shadman Sharar, Mahmuda Akter Joty, Md.Altab Hossain and Engr.Shahed Hassan.</p> <p>*MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY</p>
121	<p>To Design a Near Zero Energy House in Bangladesh</p> <p>*Arifur Rahman, Nirendra Mustafi, Sukanta Debnath and Paritosh Roy.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY</p>
225	<p>Smart Locomotion of Micro Robotic Wireless Endoscopic Capsule</p> <p>*Md. Imran Hossain</p> <p>*UNITED INTERNATIONAL UNIVERSITY, DHANMONDI, DHAKA-1209</p>
146	<p>Engine exhausts particle emissions in terms of Lung Deposition Surface Area)LDSA(, while using alternative fuels</p> <p>*Md Mostafizur Rahman, Farjana Faisal, Fazlur Rashid and Farhad Hossain.</p> <p>*Rajshahi University of Engineering & Technology</p>

Technical Session-24[ME]

1100-1300

Session Chair: Maj Md Altab Hossain, PhD, MIST

Co-Chair: Assistant Professor Shabnam Konica, MIST

Venue: Room No. 6

124	<p>Experimental Investigation on Droplet Evaporation and Leidenfrost Phenomenon</p> <p>*Aloke K. Mozumder, Shihab I. Alam, Tanzima M. Barsha and Fahmida A. Suma.</p> <p>*PROFESSOR, BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>
125	<p>Study of Desalination Using Most Renewable Energy Resources</p> <p>*Fatema B. Gias, Asma U. Hosna, Sharmi Barua, Swarnali Barua, Fariha F. Niti and Jamal U. Ahamed.</p> <p>*CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY</p>
126	<p>Saving Power consumption and Economic Cost by Using HVAC System in a 10th Floor Building.</p> <p>*Maimuna Torsa Rafique, Prionkari Banik Toma and Mashruf Ahmad Noman.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY (MIST)</p>
127	<p>Using renewable energy to solve power crisis: one of the vital/major problems of Bangladesh</p> <p>*Afshana Morshed Tithi, Farzad Hossain, Rifat Sultana Setu, S.M. Abdullah Al Amin and Md. Insiat Islam.</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY (MIST)</p>
128	<p>Eco-Friendly Automated Parking System: Towards a Traffic Congestion Free Dhaka City</p> <p>*Mohammad Shariful Islam, Afshana Morshed Tithi, Farzad Hossain, S.M Abdullah Al Amin, Rifat Sultana Setu and Shakia Zannatul Ferdous Chowdhury</p> <p>*MILITARY INSTITUTE OF SCIENCE & TECHNOLOGY (MIST)</p>
133	<p>Fabrication, Mechanical and Interfacial Properties of Jute Fabrics Unsaturated Polyester Resin-Based Composites</p> <p>*Kamrun Keya, Md Razzak, Dr.Ruhul Khan and Md.Saifur Rahaman.</p> <p>*Bangladesh Atomic Energy Commission,Savar,Dhaka</p>
136	<p>Stress Analysis of Steel Frame Chair and a Comparative Study for Various Loading Conditions</p> <p>*Minhajul Islam, A M M Mukaddes and Rakibul Hasan.</p> <p>*Shahjalal University of Science and Technology</p>



Technical Session-25 [ME]

1100-1300

Session Chair: Professor Dr Aloke Kumar Mozumder, BUET

Co-Chair: Lt Col Shariful Islam, MIST

Venue: Room No. 7

147	<p>Exploring Optimum Front Contact for Perovskite-sensitized Solar Cell</p> <p>*Najmin Ara Sultana, Md. Obidul Islam, Farha Nazrun and Dr. Md. Faruk Hossain.</p> <p>*RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY (RUET)</p>
148	<p>Scope of Wind Energy in Bangladesh and Simulation Analysis of Three Different Horizontal Axis Wind Turbine Blade Shape</p> <p>*Md. Arif-UI Islam Khan, Swapnil Das and Saikat Dey.</p> <p>*CUET</p>
247	<p>BIO-HEAT TRANSFER SIMULATION IN HUMAN EYE USING FINITE ELEMENT METHOD</p> <p>*Mridul Sanyal, S.M.Kamrul Hasan, Dr .A M M Mukaddes and Shahruque Bin Khaled.</p> <p>*SHAHJALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY</p>
248	<p>Socio-Cultural Acceptability of Urine Diverted Composting Toilets :A Review of Literature for Possible Adoption in Peri-Urban Areas as a Sustainable Sanitation Solution</p> <p>*Sk .Kabir Ahmed and Sarder Shakil Ahmed.</p> <p>*KHULNA UNIVERSITY</p>
200	<p>Potentiality of Wind Power Generation in Bangladesh</p> <p>*Md Akramuzzaman Shaikh, Mohammad Masudul Islam and K M Azam Chowdhury</p> <p>*BANGABANDHU SHEIKH MUJIBUR RAHMAN MARITIME UNIVERSITY</p>
188	<p>SMART VEHICLES FOR SMART CITIES</p> <p>*Manlio Valerio Morganti and Lorenzo Morganti</p> <p>*POLYTECHNIC UNIVERSITY OF MILAN, ITALY</p>
189	<p>Biodegradation of hazardous residual Pesticide by pesticide-resistant naturally occurring bacteria</p> <p>*Farjana Akter Koly, Abu Hena Mostofa Kamal, Md Imranul Hoq, Dr. Ruhul Amin Khan, Abdullah Al Mamun and Tofa Begum</p> <p>*UNIVERSITY OF CHITTAGONG, CHITTAGONG-4331, BANGLADESH</p>

Technical Session-26 [ME]

1100-1300

Session Chair: Professor Dr Md Alamgir Hossain, MIST

Co-Chair: Maj Faisal Kader, PhD, BMA

Venue: Room No. 8

149	<p>Performance analysis of Nano-scale Double-Gated Field Effect Transistor pH Sensor</p> <p>*Md. Obidul Islam, Muhammad Mozaher-UI Haq Patwary, Muhammad Asik Hasan and Najmin Ara Sultana.</p> <p>*UNIVERSITY OF DHAKA</p>
161	<p>Removal of chromium and lead from paint industry effluent by naturally occurring bacteria</p> <p>*Tofa Begum, Md. Imranul Hoq, Ruhul Amin Khan, Abu Hena Mostofa Kamal, Md. Saifur Rahman, Abdullah Al Mamun and Farjana Akter Koly</p> <p>*UNIVERSITY OF CHITTAGONG, CHITTAGONG-4331, BANGLADESH</p>
181	<p>An Analytical Review and Application</p> <p>*Goutam Das, Partha Pratim Chakraborty, Alok Nath and Dr. Jamal Uddin Ahamed</p> <p>*CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY, CHITTAGONG-4349, BANGLADESH</p>
184	<p>Comparison of Heat Transfer Through a Circular Pipe Using Different Geometry Inside The Pipe</p> <p>*Sheikh Fuzael Rahman and Md. Irfan Khan</p> <p>*AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, TEJGAON, DHAKA-1208</p>
185	<p>Effect of drag force on fuel consumption of automobile</p> <p>*Saif Rahman Khan, Imtiaz Muhammed Nabil and Md. Muyeedur Rahman</p> <p>*AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, TEJGAON, DHAKA-1208</p>
187	<p>Constant choke pressure control in an experimental managed pressure drilling setup</p> <p>*Al Amin, Syed Imtiaz, Aziz Rahman, Munzarin Morshed and Alamgir Hossain</p> <p>*MEMORIAL UNIVERSITY OF NEWFOUNDLAND, CANADA</p>
15	<p>CFD simulation of slurry flow in annular pipelines</p> <p>*Rasel A Sultan, Mohamed Aziz Rahman, Sayeed Rushd and Sohrab Zendejboudi</p> <p>*Memorial University of Newfoundland .</p>