

SCHEDULE OF PROGRAM

(Technical Session)

ICMIEE 2018 Conference Program

Date: December 22, 2018

3	3:00PM-6:00PM	Registration

Date: December 23, 2018

	Registration			
09:45AM-11:00AM	Inaugural Session			
	Venue: Student Welfare Center, KUET			
	Chief Guest: Prof. Abdul Mannan, Chairman, University Grants Commission of Bangladesh			
	Special Guest: Prof. Dr. Quazi Sazza			
	Organizing Chair: Prof. Dr. Mihir Ra	njan Halder, Department of Mechanic	al Engineering, KUET	
11:00AM-11:15AM				
11:15AM-01:00PM				
			ogy, North Western University, Khulna	
	1. Nanomembranes for Sustain			
			anical Engineering, College of Engineer	ring, Wichita State University USA.)
	2. Aerodynamics and Hydrod		C · · · · · · · · · · · · · · · · · · ·	
			nufacturing Engineering, RMIT University	sity, Melbourne, Australia.)
01.00DM 02.00DM	Venue: Seminar Room, ME 201 (1F, Lunch Break	ME Building)		
02:00PM-03:45PM	Parallel Sessions (I, II, III, IV)	т 1 : 10 : н	Tr. 1 ' 10 ' HI	T 1 : 10 : 17
	Technical Session I Venue: Seminar Room ME 201 (1F)	Technical Session II	Technical Session III Venue: Room No. ME 310(2F)	Technical Session IV Venue:Room No. ME 312 (2F)
	Fluid Mechanics	Heat and Mass Transfer 1	Energy Engineering	Industrial Engineering 1
	Chair: Prof. Dr. Firoz Alam	Chair: Prof. Dr. Khandkar Aftab	Chair: Prof. Dr. A. N. M. Mizanur	Chair: Prof. Dr. Mohammad Iqbal
	(RMIT University, Australia)	Hossain (KUET, Bangladesh)	Rahman (KUET, Bangladesh)	(SUST, Bangladesh)
	Co-chair: Dr. Md. Arifuzzman	Co-chair: Dr. Md. Sultan Mahmud	Co-chair: Dr. Md. Abdullah Al Bari	Co-chair: Prof. Md. Golam Kader
		Paper No.: 110, 113, 130, 134, 187,		Paper No.: 111, 141, 148, 165, 258,
	256, 319, 322	204, 209, 321, 329	222, 223, 229, 326	263, 283, 309
03:45PM-04:15PM	Coffee and Prayer Break	- , ,	, -, -, -	
	Parallel Sessions (V, VI, VII, VIII)			
	Technical Session V	Technical Session VI	Technical Session VII	Technical Session VIII
	Venue: Seminar Room, ME 201 (1F)	Venue: Room No. ME 308 (2F)	Venue: Room No. ME 310 (2F)	Venue: Room No. ME 312 (2F)
	Fluid Mechanics and Machinery	Aerodynamics	Heat and Mass Transfer 2	Textile Engineering
	Chair: Dr. Zahir Uddin Ahmed	Chair: Prof. Dr. Mohammad	Chair: Prof. Dr. Muhammad	Chair: Prof. Dr. Mohammad Abdul
	(KUET, Bangladesh)	Mashud (KUET, Bangladesh)	Mustafizur Rahman (Wichita State	Jalil (KUET, Bangladesh)
	Co-chair: Dr. Kazi Mostafijur	Co-chair: Dr. Abdullah Al-Faruk	University USA)	Co-chair: Dr. Md. Ismail Hossain
	Rahman	Paper No.: 125, 203, 249, 259, 273	Co-chair: Dr. Mohammad Ilias Inam	Paper No.:120, 208, 215, 303, 304
	Paper No.: 104, 172, 184, 228, 331 Paper No:144, 164, 201, 227, 320			
5:15PM-6:00PM	Prayer Break			
6:30PM-9.30PM	Conference dinner			
	Venue: Hotel City Inn Ltd., Khulna.			

Date: December 24, 2018

9:00AM~	Registration			
9:00AM-11:00AM	Parallel Session (IX, X, XI, XII)	Parallel Session (IX, X, XI, XII)		
	Technical Session IX Venue: Seminar Room, ME 201 (1F) Manufacturing and Production Engineering Chair: Dr. Sabuj Mallik (University of Derby, Derby, UK) Co-chair: Dr. Md. Abdul Hasib Paper No.: 156, 171, 233, 252, 253, 254, 255, 316,318, 327	Energy Science & Engineering Chair: Dr. Md. Tawhidul Islam Khan (Saga University, Japan) Co-chair: Dr. Md. Rafiquzzaman	Technical Session XI Venue: Room No. ME 310 (2F) Industrial Engineering 2 Chair: Prof. Dr. Md. Kutub Uddin (KUET, Bangladesh) Co-chair: Dr. Kazi Arif-Uz-Zaman Paper No.: 153, 170, 244, 260, 261, 289, 298, 299, 305	Technical Session XII Venue: Room No. ME 312 (2F) Power Plant & Energy Engineering Chair: Prof. Dr. Mihir Ranjan Halder (KUET, Bangladesh) Co-chair: Dr. Md. Hasan Ali Paper No.: 107, 151, 176, 190, 194, 218, 241, 285, 311
11:00AM-11:30AM				
	Parallel Session (XIII, XIV, XV, XVI Technical Session XIII Venue: Seminar Room, ME 201 (1F) Robotic and Mechatronics Chair: Dr. M. Habib Rahman (University of Wisconsin, USA) Co-chair: Dr. Md. Helal-An-Nahiyan Paper No.: 234, 266, 306, 307, 312, 313, 315	Technical Session XIV Venue: Room No. ME 308 (2F) Leather & Chemical Engineering Chair: Dr. Md. Abul Hashem (KUET, Bangladesh)	Technical Session XV Venue: Room no. ME 310 (2F) Materials and Composites Chair: Prof. Dr. Md. Shahidul Islam (KUET, Bangladesh) Co-chair: Dr. Md. Shariful Islam Paper No.: 206, 216, 268, 278, 284, 308, 330	Technical Session XVI Venue: Room no. ME 312 (2F) Related Topics Chair: Prof. Dr. Mia Sobahan (KUET, Bangladesh) Co-chair: Dr. Azizur Rahman Paper No.: 205, 212, 301, 323, 324, 328, 332
	Prayer and Lunch Break			
	Dr. Md. Tawhidul Islam Kh. 2. Engineering the Reliability Dr. Sabuj Mallik (Head of M 3. Non-Singular Second Orde Dr. M. Habib Rahman (Direc Venue: Seminar Room, ME 201 (1F,	ement as Adaptive Biomarker in In an (Faculty of Science and Engineering into Products under Harsh Environg echanical and Manufacturing Engine or Terminal Sliding Mode Incorporator of the BioRobotics Lab, Mechanical	tegrity Analysis of Knee Osteoarthing, Department of Advanced Technologiments ering, University of Derby, Derby, Ulating Time Delay Estimation for University	ritis ogy Fusion, Saga University, Japan) K)
3:45-4:30	Closing Ceremony Venue: Seminar Room, ME 201 (1F, ME Building)			
4:30PM-4:50PM	Coffee and Prayer Break			

Plenary Session I

23rd December 2018, Sunday, 11:15 AM- 1:00 PM (Seminar Room, ME 201, 1F, Mechanical Building)

Chair: Prof. Dr. Md. Nawsher Ali (Dean, Faculty of Science and Technology, North Western University, Khulna.)

P1		Nanomembranes for Sustainable Fresh Water Production
	ICMIEE10 IZNO1	Prof. Dr. Muhammad Mustafizur Rahman
	ICMIEE18-KN01	Bloomfield Chair Professor and Department Chair, Department of Mechanical Engineering, College of Engineering, Wichita State
		University, USA.
		Aerodynamics and Hydrodynamics in Sports
P2	ICMIEE18-KN02	Prof. Dr. Firoz Alam
P2	ICMIEE16-KINU2	Program Director, Offshore Mechanical Engineering, School of Engineering(Aerospace, Mechanical & Manufacturing) RMIT University,
		Australia

Plenary Session II

24th December 2018, Monday, 2:00 PM- 3:45PM (Seminar Room, ME 201, 1F, Mechanical Building)

Chair: Prof. Dr. Abul Mukid Mohammad Mukaddes (Dean, School of Applied Sciences and Technology Shahjalal University of Science and Technology, Sylhet)

		I Charles War and All Charles
P5	ICMIEE18-KN03	Acoustic Emission Measurement as Adaptive Biomarker in Integrity Analysis of Knee Osteoarthritis
		Dr. Md. Tawhidul Islam Khan
		Associate Professor in Advanced Technology Fusion, Faculty of Science and Engineering, Saga University, Japan
	ICMIEE18-KN04	Engineering the Reliability into Products under Harsh Environments
P6		Dr. Sabuj Mallik
FO		Associate Professor in Mechanical Engineering and Head of Mechanical & Manufacturing Engineering Discipline, University of
		Derby, Derby, UK
	ICMIEE18-KN05	Non-Singular Second Order Terminal Sliding Mode Incorporating Time Delay Estimation for Uncertain Exoskeleton Robot
P7		Dr. Mohammad Habibur Rahman
		Director of the BioRobotics Lab, Department of Mechanical and Biomedical Engineering, University of Wisconsin-Milwaukee, USA.

Technical Session I

Fluid Mechanics

	Fluid Mechanics			
	23 rd December 2018, Sunday, 2:00 PM- 3:45 PM, Seminar Room, ME 201 (1F, Mechanical Building)			
	Chair: Prof. Dr. FirozAlam(RMIT University, Australia) Co-chair: Dr. Md. Arifuzzman (KUET, Bangladesh)			
		Boundary Layer Flow of Micropolar Fluid over a Stretching Conical Surface with Magnetic Effect		
1.1	ICMIEE18-109	M. Ali ¹ , M. A. Alim ² , R. Nasrin ³ , and Md. Delowar Hossain ⁴		
1.1	ICMILEE16-109	^{1,4} Department of Mathematics, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH		
		^{2,3} Department of Mathematics, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH		
		Numerical Study of Pumping Power and Volumetric Flow Rate Advantage of SiC-Water Nanofluid through a Channel		
1.2	ICMIEE18-147	Md. Insiat Islam Rabby, Md. Farzad Hossai, Md. Ehsanul Hasan, Md. Abdullah Al-Amin, and A.K.M Sadrul Islam		
		Department of Mechanical Engineering, Military Institute of Science & Technology, Dhaka, BANGLADESH		
		Prediction of Resistance, Sinkage and Trim of a Bulk Carrier by Computational Fluid Dynamics Method		
1.3	ICMIEE18-185	Md. Rakibul Hasan, Md. Abdur Rahim, Mohammad Sharier Islam, and Md. Mashiur Rahman		
		Department of Naval Architecture & Marine Engineering, Bangladesh University of Engineering & Technology, Dhaka, BANGLADESH		
		Numerical Study of Heat Transfer and Flow Characteristics in a Rectangular Channel with Rib Type Turbulent Promoters		
1.4	ICMIEE18-236	Sunanda Kumar Saha, Md Mosarof Hossain, and Dr. Mohammad Ali		
		Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka, BANGLADESH		
		Effect of Tip Speed Ratio on the Flow Characteristics of Single-bladed Darrieus Wind Turbine		
1.5	ICMIEE18-237	Md. Tanvir Khan, Mohammad Ilias Inam, and Abdullah Al-Faruk		
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna, BANGLADESH		
		Numerical Simulation and Analysis of Supersonic Flow over a Circular Cylinder		
1.6	ICMIEE18-256	Shawon Kumar Saha		
		Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH		
		2D CFD Analysis of a Straight-bladed Vertical Axis Wind Turbine using General Grid Interface Method		
		Farah Aqilah ¹ , Mazharul islam ¹ , Franjo Juretic ² , and Waqar Asrar ³		
1.7	ICMIEE18-319	¹ Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka-1208, Bangladesh		
		² Creative Fields Ltd., DragutinaGolika 63, 10000 Zagreb, Croatia		
		³ Department of Mechanical Engineering, International Islamic University Malaysia, 50728 Kuala Lumpur, Malaysia		
		Performance of Heat Transfer of a Plain Tube Fitted With V-Shaped Twisted Tape Inserts of Copper and Stainless Steel Material for Turbulent		
1.8	ICMIEE18-322	Flow		
1.0		Mostafizur Rahman, Mohamed Abdur Razzaq, Abdullah Al Noman, and Jamal Uddin Ahamed		
in the second		Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349,BANGLADESH		

Technical Session II

Heat and Mass Transfer 1

23rd December 2018, Sunday, 2:00 PM- 3:45PM (Room No.ME 308, Mechanical Building)

Chair: Prof. Dr. Khandkar Aftab Hossain(KUET, Bangladesh)Co-chair: Dr. Md. Sultan Mahmud (KUET, Bangladesh)

2.1	ICMIEE18-110	Effect of Nano Particle and Aspect Ratio in Natural Convection Heat Transfer in a Rectangular Enclosure: A Numerical Analysis
		Md. Shariful Islam, and Mohammad Ilias Inam
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
2.2	ICMIEE18-113	Numerical Investigation of Laminar Convective Heat Transfer and Friction Factor of a Pipe by using Al ₂ O ₃ -Water Nanofluid
		Md. Insiat Islam Rabby, S.A.M. Shafwat Amin, Sazedur Rahman, and A.K.M Sadrul Islam
		Department of Mechanical Engineering, Military Institute of Science & Technology, Dhaka, BANGLADESH
2.3	ICMIEE18- 130	Numerical Study of a Stand-alone Flat Plate Solar Water Heater using Rectangular Flow Channel with Fin
		F. Rashid, M.R.I Sarker, S.S. Tuly, J. Ferdous, and R. A. Beg
		Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADES
2.4	ICMIEE18-134	Effect of Inertia and Gravity on Three Dimensional Non-isothermal Film Stability
		Kazi Rumman Islam, and Zahir. U. Ahmed
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
2.5	ICMIEE18-187	Heat Storage System: A Modern Way to Reuse & Recycle Energy to Reduce Thermal Pollution
		Md. Fahel Bin Noor, Ahsan Habib, and Bijoy Mallick
		Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH
2.6	ICMIEE18- 204	Numerical Solution of One-Dimensional Heat Equation by Crank Nicolson Method
		Md. Amirul Islam ¹ , S.M. Kamal Hossain ² , and Abdur Rashid ³
		^{1,2} Department of Mathematics, Uttara University Dhaka-1230, Bangladesh
		³ Department of Mathematics, Jahangirnagar University, Savar, Dhaka-1342, BANGLADESH
2.7		Enhancement of Tube Side Heat Transfer using Twisted Stainless Steel Angle
	ICMIEE18- 209	Md. Tarif Raihan
		Fire Safety Engineer, Stichting Bangladesh Accord Foundation, Dhaka-1212, BANGLADESH
2.8		Comparative Numerical Analysis of Heat Transfer between Nonporous and Porous Cylindrical Fins
	ICMIEE18- 321	Farida Ahmed Koly, Abu Raihan Ibna Ali, Moham Ed Abdur Razzaq, and Mostafizur Rahman
		Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349,BANGLADESH
2.9		Experimental Investigations of Phase Change Material (PCM) Based Pin Finned Heat Sinks for Cooling Electronic Equipment
2.)		Experimental investigations of relate change material (1 Cm) based rein related into 100 Cooling Electronic Equipment
	ICMIEE18-329	Md. Ponir Hossain Talukder, and Kazi Afzalur Rahman
		Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
		Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, DANGLADESH

Technical Session III

Energy Engineering

23rd December 2018, Sunday, 2:00 PM- 3:45PM (Room No. ME 310, Mechanical Building) Chair: Prof. Dr. A. N. M. Mizanur Rahman (KLIET, Bangladesh) Co-chair: Dr. Md. Abdullah Al Bari (KLIET, Bangladesh)

	Chair: P	rof. Dr. A. N. M. Mizanur Rahman (KUET, Bangladesh) Co-chair: Dr. Md. Abdullah Al Bari (KUET, Bangladesh)
		Design, Construction and Performance Test of a Box Type Solar Cooker
3.1	ICMIEE18- 105	Al Aman, Syed Istiaq Mahmud, Md. Nawsher Ali Moral, Jamshedul Islam, and Shahinur Rahman
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
		Barriers against the Development of Solar Cooker & its Solution
		Tamal Chowdhury ¹ , Hemal Chowdhury ² , Piyal Chowdhury ³ , Abul Hasnat ¹ , Birol Barua ¹ , and Rabiul Islam ¹
3.2	ICMIEE18- 149	¹ Department of Electrical & Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH
		² Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH
		³ Chittagong Collegiate School & College, Chittagong, BANGLADEH
		Analysis of a Solar PV system for Aeration System in Aquaculture
	101 (150 150	Tamal Chowdhury ¹ , Hemal Chowdhury ² , Piyal Chowdhury ³ , Abul Hasnat ¹ , Birol Barua ¹ , and Rabiul Islam ¹
3.3	ICMIEE18-152	Department of Electrical &Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
		² Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
-		³ Chittagong Collegiate School &College, BANGLADESH Agricultural Scenario and Solar Irrigation System of Bangladesh
		Agricultural Scenario and Solar Irrigation System of Dangiadesn
3.4	ICMIEE18-181	M. S. Islam, Md. Bakhtier khalzi, Sabbir Ahmed, and Pronob Das
		Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADESH
		An Automatic Solar Tracking System using Programmable Logic Controller
3.5	ICMIEE18-183	M.E. Hoque, F. Rashid, S. Shahriar, and M.K. Islam
		Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADESH
		Experimental Investigation on Three Different Natural Convection Cabinet Solar Dryer for Food Drying Applications
2.6	ICI ATEE 10 222	Md. Imrul Islam ¹ , Mehedi Hasan Tusar ¹ , Amir Hamza Limon ¹ and Majedul Islam ^{1,2}
3.6	ICMIEE18-222	¹ Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, BANGLADESH
		² Post-Doctoral Research Fellow, Queensland University of Technology, Brisbane, Australia
		Dust Effect on Glass Transmittance and Mirror Reflectance of Solar Collectors
3.7	ICMIEE18-223	Mehedi Hasan Tusar, Amir Hamza Limon, Abdullah Al Noman, and Goutam Das
		Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
		Development of Surface Mounted Concentrator for Photovoltaic Solar Cell
3.8	ICMIEE18-229	Md Anwar Hossain ¹ , and YiHong Zhang ^{1,2}
		State key University, Ministry of Education, P. R. China
		² College of Information Science & Technology, Donghua University, Shanghai , P. R. China
3.9	ICMIEE18-326	Cleaning of Accumulated Dust Particle of a Flat Plate Solar Collector Amir Hamza Limon, Muhammad Mostafa Kamal Bhuiya, Mostafizur Rahman, and Majedul Islam
3.9	ICIVIIEE16-320	Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chittagong 4349,BANGLADESH
		Department of Mechanical Engineering, Chitagong University of Engineering & Technology (COET), Chitagong 4349, BANGLADESH

Technical Session IV Industrial Engineering 1 23rd December 2018, Sunday, 2:00 PM- 3:45PM (Room No. ME 312, Mechanical Building) Chair: Prof. Dr. Mohammad Iqbal (SUST, Bangladesh) Co-chair: Prof. Md. Golam Kader (KUET, Bangladesh) Implementation of 9S Approach in a Jute Industry: A Case Study Md. Sumon Rahman¹, Md. Ariful Islam², Md. Tahiduzzaman¹, and Md. Shohanur Rahman¹ 4.1 ICMIEE18-111 ¹Department of Industrial and Production Engineering, Jessore University of Science & Technology, Jessore-7408, BANGLADESH ²Business Administration Discipline Khulna University, Khulna - 9208, BANGLADESH Integrated Approach of Ergonomics and MCDM into Truck Drivers' Seat Comfort: A Case Study in Bangladesh Pobitra Halder^{1,2}, Chitralekha Karmaker², and Mustafizur Rahman² ICMIEE18-141 4.2 ¹Chemical and Environmental Engineering, School of Engineering, RMIT University, **Melbourne, Victoria 3001, Australia** ²Department of Industrial and Production Engineering, Jessore University of Science and Technology, Jessore-7408, BANGLADESH Optimization of an Emergency Relief Supply Model using Genetic Algorithm along with a Framework for Structuring Humanitarian **Logistics Distribution Network** 4.3 ICMIEE18-148 Shekh Rasel, Md. Mahmudul Hasan Bhuiyan, and Khairun Nahar Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology, Rajshahi, BANGLADESH Drive Cycle of Heavy Vehicles in Dhaka City: A Case Study M. Fahim Asif Khan, Mirza Farhan Hasin, Md. Jubayer Hossain, Anjan Goswami, and Mozammel Mia 4.4 ICMIEE18-165 Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka-1208, BANGLADESH Metal Surface Defect Inspection through Deep Neural Network 4.5 **ICMIEE18-258** Md. Fantacher Islam, and Md. Mahbubur Rahman Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Planning for Budget Allocation in Digital Marketing Md. Mahbubur Rahman, Al-Muktadir, and Samiya Rahman 4.6 ICMIEE18-263 Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Ergonomic Analysis of Bangladeshi Train Passengers 4.7 **ICMIEE18-283** Sajia Afrin Shifa, and Md. Golam Kibria Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Dmaic Approach for Process Improvement: Improving Fabric Width Shrinkage of Basic T-Shirt Swarnalekha Khandker¹, and Tasin Us Sakib² 4.8 ICMIEE18-309 ¹Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH ²Department of Industrial and Production Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADESH

Technical Session V

Fluid Mechanics and Machinery

23rd December 2018, Sunday, 4:15 PM- 5:15PM, (Seminar Room, ME 201, Mechanical Building)

Chair: Dr. Zahir Uddin Ahmed (KUET, Bangladesh) Co-chair: Dr. Kazi Mostafijur Rahman (KUET, Bangladesh)

		The Effect of Swirl on Array of Turbulent Impinging Jets
5.1	ICMIEE18-104	Sudipta Debnath, Md Habib Ullah Khan, Zahir U. Ahmed, and Md. Mahmodul Alam
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Performance Analysis of Nylon Made Vortex Tube
5.2	ICMIEE18-172	Tirtha Sen Guptaa ¹ ,Radif Uddin Ahmed ¹ , Hemal Chowdhury ¹ , Tamal Chowdhury ² , and Md. Tazul Islam ¹
3.2	ICMIEE16-172	¹ Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
		² Department of Electrical &Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
		Development of Water Transport Network in the Northern Region of Dhaka City
		Abu Sumaiya ¹ , Nazmul Alam Nahid ¹ , Md. Mashiur Rahaman ¹ , Khandaker Rasel Hasan ² and ABM Mahbubar Rashid ³
5.3	ICMIEE10 104	¹ Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology, Dhaka-1000,
3.3	ICMIEE18-184	BANGLADESH
		² Department of Port and Shipping Management, Bangabandhu Sheikh Mujibur Rahman Maritime University, Dhaka, BANGLADESH
		³ Metacenter Ltd., Dhaka-1000, BANGLADESH
		CFD Analysis of Two-Phase (Oil-Water) Flow in Horizontal Pipe
5.4	ICMIEE18-228	Md. Abir Hasan, and Mohammad Ilias Inam
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Productivity Enhancement of Single Basin Solar Still using Al ₂ O ₃ Nanoparticles
5.5	ICMIEE18-331	Muhammad Sharif Uddin, Md. Mehdi Masud Talukder, and Md. Tansirul Islam
		Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH

Technical Session VI

Aerodynamics

23rd December 2018, Sunday, 4:15 PM- 5:15 PM (Room No.: ME108, Mechanical Building)

Chair: Prof. Dr. Mohammad Mashud (KUET, Bangladesh) Co-chair: Dr. Abdullah Al-Faruk (KUET, Bangladesh)

	ICMIEE18-125	CFD Study on Aerodynamic Effect of NACA 2412 Airfoil as Rear Wing on a Sports Car
<i>c</i> 1		Shamudra Dey ¹ , and Ranabir Saha ²
6.1	ICMIEE16-123	¹ Department of Mechanical Engineering, Shahjalal University of Science & Technology, Sylhet-3114, BANGLADESH
		² Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH
		Experimental Study on NACA 2415 Airfoil with Rotating Cylinder at Leading Edge
6.2	ICMIEE18-203	Nashidul Islam, Md. Mamun Islam, Mohammad Mashud, and Abdullah Al Faruk
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Numerical Study on Aero-Acoustic Behavior for Flow over a Supercritical Airfoil at Low Reynolds Number
6.3	ICMIEE18-249	Syed Angkan Haider, Tanveer Islam Joy, and Md. Fazlur Rahman Akanda
		Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH
		Aerodynamic Shape Optimization of Vehicles using CFD Simulation
6.4	ICMIEE18-259	Ahmed Zawad Ul Hoque, Mohammad Ariful Islam, and Md. Ahatashamul Haque Khan Shuvo
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Numerical Analysis of Energy Harvesting on a Wind Turbine Blade by using Piezoelectric Material
6.5	ICMIEE18-273	Md. Faidid Ahasan, Mohammad Fuad Hassan, and Dipayan Mondal
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH

Technical Session VII Heat and Mass Transfer 2

23rd December 2018, Sunday, 4:15 PM- 5:15 PM (Room No.: ME 310, Mechanical Building)

Chair: Prof. Dr. Muhammad Mustafizur Rahman (Wichira State University, USA) Co-chair: Dr. Mohammad Ilias Inam (KUET, Bangladesh)

7.1		Investigation of the Effect of Sample Geometry on Drying Energy Requirement of Plant-Based Food Materials
	ICMIEE18-144	Md. Washim Akram ¹ , and Mohammad U. H. Joardder ²
7.1	ICMILLIO-144	¹ Department of Mechanical Engineering, Bangladesh Army University of Science & Technology, Saidpur-5310, BANGLADESH
		² Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADESH
		Study of Heat Transfer Enhancement in Tubular Heat Exchanger with Twisted Tape Inserts
7.2	ICMIEE18-164	Sadman Hassan Labib, Md. Riad Arefin Himel, Jobayer Ibn Ali, and Anjan Goswami
		Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka-1208, BANGLADESH
		Finned-tube Heat Exchanger with Circular, Elliptical & Rectangular Tubes with Water-vapor as Working Fluid
7.3	ICMIEE18-201	Md. Hasibul Hasan, and Dipayan Mondal
		Mechanical Engineering, Khulna University of Engineering & Technology, Khulna 9203, BANGLADESH
		Experimental Investigation of an Air to Air Heat Pipe Heat Exchanger for Moderate Temperature Waste Heat Recovery
7.4	ICMIEE18-227	Saddam Hossen, Mahmud-Or-Rashid, Mantaka Taimullah, Farhan Ahmed Shakil, and A K M Monjur Morshed
		Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH
		Numerical Analysis of Heat Transfer for Double Pipe Heat Exchanger with and without Fin
7.5	ICMIEE18-320	Jamshedul Islam, Al Aman, and Mihir Ranjan Halder
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH

Technical Session VIII Textile Engineering 23rd December 2018, Sunday, 4:15 PM- 5:15 PM, (Room No.: ME 312, Mechanical Building) Chair: Prof. Dr. Mohammad Abdul Jalil (KUET, Bangladesh) Co-chair: Dr. Md. Ismail Hossain (KUET, Bangladesh) Significance of Cotton Cultivation to Keep Sustainable RMG Sector in Bangladesh 8.1 ICMIEE18-120 Md. Nur Uddin, Noyon Chandra Roy, Md Delwar Hossain, and Md Abdur Rahim Department of Textile Engineering, Dhaka University of Engineering & Technology, DUET-1707, BANGLADESH Dveing of 100% Cotton Fabric using Natural Dve, Mordant and Natural Finish 8.2 **ICMIEE18-208** A. K. M.Nayab-Ul-Hossain, Mohammad Naim Hassan, Aniruddha Sarkar, S. M. Kamrul Hasan, Kaniz Fatima Mishfa Lecturer, Department of Textile Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Influence of Industrial Bleach Wash on the Physical and Comfort Properties of Denim Garments 8.3 ICMIEE18-215 Niaz Morshed Rifat, and Joy Sarkar Department of Textile Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Effect of Blended Yarn on Physical Properties of Single Jersey Knitted Fabrics 8.4 ICMIEE18-303 Mohammad Naim Hassan, A.K.M Nayab Ul Hossain, Md. Shakhawat Hossain, Moni Sankar Mondal, Joy sarkar, and Rezve Hassan Aunik Department of Textile Engineering, Khulna University of Engineering and Technology, Khulna-9203, BANGLADESH Sizing of Warp Yarn with a Different Concentration of Animal Fat and Acids and Determination of the Performance in Comparing with Conventional Sized Yarn

¹ Department of Textile Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH

²Department of Textile Engineering, World University of Bangladesh, Dhaka-1207, BANGLADESH

Joy Sarkar¹, and Md. Shamsuzzaman Rasel²

8.5

ICMIEE18-304

Technical Session IX Manufacturing and Production Engineering 24th December 2018, Monday, 9:00AM-11:00AM (Seminar Room, ME 201, Mechanical Building) Chair: Dr. Sabuj Mallik (University of Derby, Derby, UK) Co-chair: Dr. Md. Abdul Hasib (KUET, Bangladesh) Proposition of Additive Manufacturing Technique for Artificial Bone Implantations and Its Feasibility Assessment via Cost Analysis Nusrath Zahan¹, M. Fakhrul Islam Jony², and Khairun Nahar¹ 9.1 ICMIEE18-156 Department of Industrial & Department of Industrial & Department of Engineering & Department BANGLADESH ²Lira Group of Industries, Gulshan 2, Dhaka, BANGLADESH Design and Numerical Analysis of Suspension Geometry for a Formula Student Race Car 9.2 ICMIEE18-171 Shafi Md. Istiak Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Kazla-6204, BANGLADESH Reduction of Chatter in Turning by using a Tool Holder with High Damping Coefficient 9.3 **ICMIEE18-233** A H M Shahjahan, Amin Hasan Khan, Jannatun Naeema, and A.K.M. Nurul Amin Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, BANGLADESH Construction and Performance Test of a Manual Pipe Bending Machine 9.4 ICMIEE18-252 S. M. Moinur Rahman, and A. N. M Mizanur Rahman Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna 9203, BANGLADESH **Development and Performance Test of Gearless Power Transmission System** 9.5 ICMIEE18-253 Md. Jewel Rana, and A.N.M Mizanur Rahman Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna 9203, BANGLADESH **Development of an Izod Impact Test Machine for Non-Metals** 9.6 ICMIEE18-254 Mohammad Emran Hossain, and A.N.M Mizanur Rahman Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna 9203, BANGLADESH Construction and Performance Test of a Pedal Operated Double Cylinder Reciprocating Pump 97 **ICMIEE18-255** Abdullah al Musabbir and A.N.M Mizanur Rahman Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna 9203, BANGLADESH Design and Construction of a Three-Axis Automated Drilling Mechanism with Depth Controllability 9.8 ICMIEE18-316 Sudip Saha, Saikat Biswas, and Md. Kutub Uddin Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Design Construction and Performance Test of a Low-Cost Portable Mechanical Ventilator for Respiratory Disorder S. M. Tamjid Hossain¹, Mihir Ranjan Halder¹, Al Aman¹, Md. Rakibul Islam², and Md. Tarek Rahman¹ 9.9 ICMIEE18-318 Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH ²Department of Biomedical Engineering, University Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH Stress Analysis of Welded Joint Portions at Rear-side Footrests of Public Transportation like Human Hauler Mohammad Asheful Alam, M. SRabbi, Sama-E-Shan, and Md. Shamim Hasan 9.10 **ICMIEE18-327** Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH

Technical Session X

Energy Science & Engineering 24th December 2018, Monday, 9:00 AM-11:00 AM (Room No.: ME 308, Mechanical Building)

24 th December 2018, Monday, 9:00 AM-11:00 AM (Room No.: ME 308, Mechanical Building)		
Chair: Dr. Md. Tawhidul Islam Khan (KUET, Bangladesh) Co-chair: Dr. Md. Rafiquzzaman (KUET, Bangladesh)		
		Recovery of Liquid Fuel through Thermal Pyrolysis of Medical Waste (Waste Syringe) in a Batch Reactor
10.1	ICMIEE18-128	Adnan Abedeen ¹ , Uday Som ² , Farzana Rahman ³ , Md. Rezaul Karim ⁴ , Md. Moniruzzaman ⁵ , Md. Shameem Hossain ¹ Department of Chemical Engineering, Jessore University of Science & Technology, Jessore-7408,BANGLADESH Department of Energy Science and Engineering, Khulna University of Engineering and Technology, Khulna-9203,BANGLADESH Department of Physics, Jahangirnagar University, Savar, Dhaka, BANGLADESH Department of Chemical Engineering, Z. H Sikder University of Science & Technology, Shariatpur, BANGLADESH Designated Reference Institute for Chemical Measurements, Bangladesh Council of Scientific & Industrial Research, Dhaka, BANGLADESH
10.2	ICMIEE18-140	Study of Alternative Fuel Extracted From Solid Waste Susmita Das Puja, and Md. Golam kader Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
10.3	ICMIEE18-150	Biodiesel Production from Chicken Skin: a Green Energy for Bangladesh Tamal Chowdhury ¹ , Hemal Chowdhury ² , Pranta Barua ¹ , Rabiul Islama ¹ , and Bodius Salamb ¹ Department of Electrical & Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
10.4	ICMIEE18-193	Production of Syngas using Entrained Flow Gasification of Pine Bark Biomass Aiming to Reduce Greenhouse Gas Emission for Power Generation M. Shahabuddin, and Sankar Bhattacharya Department of Chemical Engineering, Monash University, Wellington Rd, Clayton 3800, AUSTRALIA
10.5	ICMIEE18-219	Investigation on Performance of Grass, Orange and Potato as Substrate of Microbial Fuel Cell Nawrin Rahman Shefa, Ismat Ara Eti, Md. Jony Reza, Sonaton Biswas, and Md. Abdul Halim Department of Chemical Engineering, Jessore University of Science & Technology, Jessore-7408, BANGLADESH
10.6	ICMIEE18-310	Design of Automated Biodiesel Blend Plant and Analysis of Rotational Effect on Biodiesel Blends Shaurin Maher Kikky ¹ , and Leonard Sunny Peris ² Department of Mechanical Engineering, Military Institute of Science and Technology, Dhaka-1216, BANGLADESH Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Khulna-9203, BANGLADESH
10.7	ICMIEE18-314	Biofuels Extraction through Pyrolysis of Banana Waste Saikat Biswas, Sudip Saha, and Mohammad Ariful Islam Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
10.8	ICMIEE18-325	Pyrolysis of Sawdust for Bio-Oil Production using Infrared Heat Source Md. Rabiul Islam, Muhammad Mostafa Kamal Bhuiya, Bably Das, Mostafizur Rahman and Amir Hamza Limon Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chittagong 4349, BANGLADESH
10.9	ICMIEE18-333	Productivity Enhancement of Single Basin Solar Still using Nanoparticle and Phase Change Material K.M. Mine Uddin Emon, and Md. Mehdi Masud Talukder Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH
10.10	ICMIEE18-334	Experimental Investigation of Different Wick Materials to Enhance the Productivity of Single Slope Single Basin Solar Still Laxman Chandra Das, and Md. Mehdi Masud Talukder Dept. of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, BANGLADESH

Technical Session XI

Industrial Engineering 2

24th December 2018, Monday, 9:00 AM-11:00AM, (Room No.: ME 310, Mechanical Building)

Chair: Prof. Dr. Md. KutubUddin (KUET, Bangladesh)Co-chair: Dr. Kazi Arif-Uz-Zaman (KUET, Bangladesh)

		Assessment of Water Saturation using Archie's Formula, Indonesia Equation and Simandoux Model of Shahbazpur Gas Field (SBZ
11.1		01)
	ICMIEE18-153	Jebin Fouzia, and Shehab Uddin
		Graduate, Department of Petroleum and Mining Engineering, Chittagong University of Engineering & Technology, Chittagong,
		BANGLADESH
		Study on Bio-Fertilizer Extraction and Management of Municipal Solid Waste of Khulna City
11.2	ICMIEE18-170	Debasish Adhikary, and Md. Shahidul Islam
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Prediction of Weld Quality of Artificial Neural Network Modeling of Parameters of MIG Welding Process
11.3	ICMIEE18-244	Israt Zarin Era, and Nikhil Ranjan dhar
		Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH
		Application of Lean and Six Sigma Tool to Waste Reduction and Productivity Improvement in Footwear Industry
11.4	ICMIEE18-260	Adhir Chandra Paul, Noor-E-Imam, and Shakhawath Hossain
		Department of Leather Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
	ICI (FEE) 10.041	Studies on Sewing Complication through Pareto Chart and Cause-Effect Diagram Analysis of a Footwear Industry
11.5	ICMIEE18-261	Adhir Chandra Paul, Md. Atikul Islam, and Md. Shohag Hossain
		Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering, Khulna University of Engineering & Department of Leather Engineering & Department
	ICMIEE18-289	Experimental Study on Wheel Alignment System of Light Vehicles
11.6		Riton Kumer Das, Md. Abu Mowazzem Hossain and Md. Tazul Isalm
		Department of Mechanical Engineering, Chittagong University of Engineering and Technology, Chittagong -4349, BANGLADESH
		A Study on Minimization of Injury and Accidental Causes in Cutting, Sewing and Finishing Units of RMG Industries
	ICMIEE18-298	Israt Parveen ¹ , Mosammot Nelufa akter ¹ , Shima Shil ² ,Md. Mehedi Hasan ³ , and Md. Iqbal Mahmud ⁴
11.7		¹ Department of Textile Engineering, MawlanaBhashani Science and Technology University, Santosh, Tangail-1902,BANGLADESH
11./		² Trainee Work Study Officer, Ananta Jeanswear Limited, Ashulia, BANGLADESH
		³ Assistant Merchandiser, Montex Fabrics Ltd., Mondol Group, Kashimpur, Gazipur, BANGLADESH
		⁴ Department of Textile Engineering, MawlanaBhashani Science and Technology University, Santosh, Tangail, BANGLADESH
	ICMIEE18-299	Forecasting Demand by GMDH Predictor, a Case Study
11.8		Syed Misbah Uddin, Aminur Rahman, and Emtiaz Uddin Ansari
		Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet 3114, BANGLADESH
	ICMIEE18-305	Natural Gas Scenarios in Bangladesh and Its Future
11.9		Md. Saruar Jahan ¹ , Md. Abu Raihan ¹ , Mohammad Iqbal ¹ , and Farhad Hawlader ²
		Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet-3114, BANGLADESH
		² Department of petroleum and mining Engineering, Shahjalal University of Science and Technology, Sylhet-3114, BANGLADESH

Technical Session XII

Power Plant & Energy Engineering

24th December 2018, Monday, 9:00 AM-11:00 AM, (Room No.: ME 312, Mechanical Building) Chair: Prof. Dr. Mihir Ranjan Halder (KUET, Bangladesh) Co-chair: Dr. Md. Hasan Ali (KUET, Bangladesh)

		Chair. 1101. Dr. Millin Ranjan Hadde (ROD1, Bangladesii) Co-Chair. Dr. Md. Hasan An (ROD1, Bangladesii)
		Design, Simulation, and Economic Analysis of an Optimal Mini-grid Solar-Fuel Cell Hybrid Power Generation System for a Remote Island of Bangladesh
12.1	ICMIEE18-107	Sk. Suzauddin Yusuf ¹ , Md. Mahmodul Alam ² , Md. Hasan Ali ³ , and Nirendra Nath Mustafi ⁴ Department of Mechanical Engineering, Bangladesh Army University of Science and Technology, Saidpur -5311, BANGLADESH Department of Industrial and Production Engineering, Bangladesh Army University of Science and Technology, Saidpur -5311, BANGLADESH
		³ Department of Mechanical Engineering, Rajshahi University of Engineering and Technology, Rajshahi-6204, BANGLADESH Feasibility of Integrated Pico Hydro System at Choto Komoldoho, Mirsharai
12.2	ICMIEE18-151	Tamal Chowdhury ¹ , Hemal Chowdhury ² , Piyal Chowdhury ³ , Abul Hasnat ¹ , and Birol Barua ¹ Department of Electrical & Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong-4349,BANGLADESH Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong Collegiate School & College, Chittagong
		Feasibility Study of Pico Hydro Power Plant in Shongrampunji Waterfall for Clean Environment
12.3	ICMIEE18-176	Syed Tahmid Hussan ¹ , and Pranta Barua ² ¹ Department of Petroleum and Mining Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH ² Department of Electrical& Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH
		Feasibility Study of Hybrid Renewable Energy System for Electrification of Kutubdia
12.4	ICMIEE18-190	Tamal Chowdhury ¹ , Hemal Chowdhury ² , Piyal Chowdhury ³ , and Monirul Islam Miskat ¹ Department of Electrical & Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong -4349,BANGLADESH Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong Collegiate School & College, Chittagong
		Economic Viability of Biomass Power plant in Bangladesh
12.5	ICMIEE18-194	Tamal Chowdhury ^a , Hemal Chowdhury ^b , Piyal Chowdhury ^c , Pranta Barua ^a , and Monirul Islam Miskat ^a Department of Electrical & Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong Collegiate School& College, Chittagong
		Thermal Hydraulics Simulation of Fuel Sub-Assembly for 1200 MWe Nuclear Power Reactor
12.6	ICMIEE18-218	Taosif Alam, and M. A. R. Sarkar Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000, BANGLADESH
		Environmental Impact of Nuclear Power Plant (Rooppur Nuclear Power Plant) on Third World Country like Bangladesh
12.7	ICMIEE18-241	Md. Nesar Ali ¹ , Md. Ridwan Ullah ¹ , and Shuva Sarkar ² Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH Department of Electrical & Electronics Engineering, Khulna University of Engineering & Technology, BANGLADESH
12.8	ICMIEE18-285	Harnessing the Ocean's Wave Power for Bangladesh's Dynamic Coastal Areas Md. Mahbub Hasan, Md. Ashfaqul Islam, Sheikh Ahmad Imtiyaz, Md. Akramul Alim, Md. Momtazur Rahman, and Md. Mahmudul Hasan Department of Electrical & Electronic Engineering, Bangladesh Army University of Engineering & Technology, Natore-6431,BANGLADESH
12.0		Evaluating the Impact of Coal Fired Thermal Power Plant on water: A Case Study of Barapukuria Dinajpur, Bangladesh
12.9	ICMIEE18-311	Md. Mustafizur Rahman, Md. Arif Hossain, and M. Farhad Howladar Shahjalal University of Science and Technology, Sylhet-3114, BANGLADESH

Technical Session XIII

Robotic and Mechatronics

24th December 2018, Monday, 11:30 AM-01:00 PM (Seminar Room, ME 201, Mechanical Building)

Chair: Dr. M. Habib Rahman (University of Wisconsin, USA) Co-chair: Dr.Md. Helal-An-Nahiyan (KUET, Bangladesh)

		Difficulties to Develop a Four Legged Robot	
13.1	ICMIEE18-234	Mohammad Harun-Or-Rashid, Mostafijur Rahman, and Sabrina Rashid	
		Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka-1208, BANGLADESH	
	ICMIEE18-266	Self-Balancing Autonomous Unicycle using Raspberry Pi	
13.2		Pulok Tarafder ¹ , Moyukh Amin ¹ , Syed Samiul Alam Mehrab ² , and Abdullah Al Maruf ¹	
		¹ Department of Electrical and Electronic Engineering, BRAC University,66 Mohakhali, Dhaka 1212, BANGLADESH	
		² Department of Computer Science Engineering, BRAC University,66 Mohakhali, Dhaka 1212, BANGLADESH	
		Fabrication of a Long Distance Controlled Pan-Tilt Mechanism for Camera	
13.3	ICMIEE18-306	Soma Sarker, Asif Ahmed Shishir, and Shilpi Rani Saha	
		Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADESH	
		Design & Fabrication of Low Cost GSM Based Wireless Controlled Robot	
13.4	ICMIEE18-307	Asif Ahmed Shishir, Soma Sarker, and Md. Sefatullah	
		Department of Mechanical Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, BANGLADESH	
13.5		Design and Fabrication of an Unmanned Underwater Vehicle	
	ICMIEE18-312	Mohammad Harun-Or-Rashid, and Diprajit Biswas	
		Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, BANGLADESH	
13.6		Study the Attitude of a Seesaw to Develop Flying Robots	
	ICMIEE18-313	Mohammad Harun-Or-Rashid, and Md. Nadim Bin Wahid	
		Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka-1208, BANGLADESH	
		Designing Approach of Blimp for a Hybrid VTOL Aerial Robot	
13.7	ICMIEE18-315	Md.Tasnim Rana, and Md. Shahidul Islam	
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH	

Technical Session XIV

Leather and Chemical Engineering

24th December 2018, Monday, 11:30 AM-01:00 PM (Room No.: ME 308, Mechanical Building)

Chair: Dr. Md. Abul Hashem (KUET, Bangladesh) Co-chair: Dr. Md. Elias Uddin (KUET, Bangladesh)

14.1		Comprehensive Hazard Identification and Safety Evaluation for Shahjalal Fertilizer Industry Limited
	ICMIEE18-248	Shanzida Sultana Ema, Anamika Roy, and Md Tanvir Sowgath
		Department of Chemical Engineering, Bangladesh University of Engineering and Technology, Dhaka-1000, BANGLADESH
14.2		Application of Extracted and Modified Gelatin from the Leather Solid Waste in Commercial Finishing Agents
	ICMIEE18-274	Priyanka Saha Gita, and Zia Uddin Md. Chowdhury
		Department of Leather Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
	ICMIEE18-287	Efficiency of Tamarindusindica Seed Charcoal for Chromium Removal from Tannery Wastewater
14.3		Md. Abul Hashem, Kallol Paul, Mst. Nazmin Zaman Khan, and Mehedi Hasan
		Department of Leather Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
	ICMIEE18-288	Evaluation of Sewing Performance of Leather, Denim & PVC Coated Fabric Based on Seam Puckering, Seam Strength & Seam
14.4		Efficiency
14.4		Muhammad Naimul Hasan, Md.Imrul Kayes Limon, Md. Jasidul Haque, Nabilul Hasan, and Athher Shadab
		Department of Leather Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
	ICMIEE18-294	Amino Acids Extraction from Hair Dissolving Liming Waste to Reduce Pollution in Tannery
14.5		Sadia Mim, Anika Tabassum, and Md. Abul Hashem
		Department of Leather Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
14.6	ICMIEE18-317	Efficacy of Watermelon (Citrullus Lanatus) Rind Charcoal for Chromium Removal from Tannery Wastewater
		Nabila Nowrin, Tasnim Alam, Sofia Payel, Md. Shahruk Nur-A-Tomal, and Md. Abul Hashem
		Department of Leather Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH

Technical Session XV

Materials and Composites

24th December 2018, Monday, 11:30 AM-01:00 PM, (Room No.: ME 310, Mechanical Building)

Chair: Dr. Md. Shahidul Islam (KUET, Bangladesh) Co-chair: Dr. Md. Shariful Islam (KUET, Bangladesh)

		Numerical Investigation of Low Velocity Impact on Polystyrene Foam Core Based Sandwich Composites
15.1	ICMIEE18-206	Md. Ahatashamul Haque Khan Shuvo, and Md. Arifuzzaman
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Investigation of Mechanical Properties of Jute-Betelnut Husk Fiber (BHF) Reinforced Epoxy Composite
15.2	ICMIEE18-216	Tanvirul Islam, Md. Shakhwat Hossain, and Md. Mahmudul Hasan
		Department of Textile Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH
		Available and Cost Reductive Materials in Bangladesh Having an Eye to Bone Treatment
15.3	ICMIEE18-268	Talukdar Raian Ferdous
		Department of Biomedical Engineering, Khulna University of Engineering & Technology, Khulna -9203, BANGLADESH.
		Investigation of Different Mechanical Properties on Various Hybrid Natural Fiber Based Polymer Composites
15.4	ICMIEE18-278	
10	101111111111111111111111111111111111111	Rahul Sarker, and Md. Shahidul Islam
		Dept. of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
	ICMIEE18-284	An Experimental and Simulation Study of Larger Volume Micro Discharge for the Realization of Microplama Based Reactor
		Applicable to Fuel Reforming and Material Processing
15.5		$R. K. Das^1$, and $Dr. A.Z.A$ Saifullah ²
		¹ Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, BANGLADESH ² Department of Mechanical Engineering, International University of Business Agriculture & Technology, BANGLADESH
		The Variation of Concrete Strength using Waste Tyre Rubber as Coarse Aggregate
		The variation of Concrete Strength using waste Tyre Rubber as Coarse Aggregate
15.6	ICMIEE18-308	Md. Ashiqul Islam, Tuhin Hasan Shagar, and MD. Raihan Bhuiyan
		Department of Civil Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
		Influence of Interlayer Thickness on the Singular Stress Field in 3D Three-Layered Bonded Joints using FEM
	ICMIEE18-330	minucinet of fine frager Time kiness on the singular stress Field in 3D Timee-Layered Donded Johns using FEM
15.7		Md. Jahangir Hossain, and Md. Shahidul Islam
		Dept. of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH
<u> </u>		Dept. of Processing Linguisting, Kilding Chrystaty of Engineering & Technology, Kilding 7203, Dr. (OL/1012/DE5)1

Technical Session XVI

Related Topics

24th December 2018, Monday, 11:30 AM-01:00 PM (Room No.: ME 312, Mechanical Building)

Chair: Prof. Dr. Sobahan Mia(KUET, Bangladesh) Co-chair: Dr. Azizur Rahman (KUET, Bangladesh)

16.1	ICMIEE18-205	Air Pollutants Emission from Coal Fired Kiln and Its Variation for Use of Different Fuel Types	
		Md. Riad-Ul-Hasan,and Kazi ABM Mohiuddin	
		Department of Civil Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH	
	ICMIEE18-212	Biomaterials Serving the Purpose of Drug Delivery in Human Body	
16.2		Talukdar Raian Ferdous, and Tahsin Solaiman	
		Department of Biomedical Engineering, Khulna University of Engineering and Technology, Khulna, BANGLADESH	
	ICMIEE18-301	Implications of Bangladesh's Present Energy Transition on Energy Trilemma	
		Shafiqul Alam ¹ , and Md. Golam Kader ²	
16.3		¹ International Climate Protection Fellow, Ecologic Institute, Pfalzburger Strasse, Berlin 10717, Alexander von Humboldt Foundation,	
		GERMANY	
		² Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, BANGLADESH	
		Performance Analysis of Hydroxy Gas Generator by Varying Conditions of Electrolyte Concentration, Temperature and Time	
16.4	ICMIEE18-323	Joy Datta, Md. Abu Mowazzem Hossain, and Radif Uddin Ahmed	
		Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Roazan, Chittagong-4349, BANGLADESH	
	ICMIEE18-324	Techniques to Improve the Parallel Finite Element Method to Solve Large Scale Problems	
		Abul Mukid Mohammad Mukaddes ¹ , Masao Ogino ² , and Ryuji Shioya ³	
16.5		¹ Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, BANGLADESH	
		² Information Technology Centre, Nagoya University, Nagoya, JAPAN	
		³ Faculty of Information Sciences and Arts, Toyo University, Tokyo, JAPAN	
16.6	ICMIEE18-328	Wear behavior of Different Impeller Materials for Pumping Various Slurry	
16.6		Sandip Karmokar, Sohaban Mia, and Md. Abdul Hasib	
		Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203,BANGLADESH	
	ICMIEE18-332	Life Cycle Analysis of Lead Acid Battery used in Electric Vehicles (3 Wheeler) in Bangladesh Md. Raquibul Hasan ¹ , and Nirendra Nath Mustafi ²	
16.7		¹ Department of Civil Engineering, Pabna University of Science & Technology, PUST-6600,BANGLADESH	
		² Dept. of Mechanical Engineering, Rajshahi University of Engineering & Technology, RUET-6204,BANGLADESH	
		Dept. of Mechanical Engineering, Rajonalii Oniversity of Engineering & rectinology, ROE1-0204, DANOLADEST	