



ICMIME 2022

20-22 December, 2022, Rajshahi, Bangladesh



Conference Schedule

20 December, 2022 Tuesday		
Time & Venue	Program	
8:30 AM – 9:30 AM (Venue: RUET Auditorium)	Registration & Kit Collection	
9:30 AM – 10:30 AM (Venue: RUET Auditorium)	Inaugural Session	
10:30 AM – 11.00 AM	Refreshment	
11:00 AM – 01:00 PM (Venue: RUET Auditorium)	Keynote Session-I Keynote Speakers Speaker-I: Professor Firoz Alam (11:00 AM – 11:30 AM) Speaker-II: Dr. Muhammad Mustafizur Rahman (11:30 AM – 12:00 PM) Speaker-III: Prof. Dr. Mamdud Hossain (12:00 PM – 12:30 PM) Speaker-X: Professor Dr. Yingai Jin (12:30 PM – 01:00 PM)	
01:00 PM – 02:30 PM	Lunch and Prayer Break	
02:30 PM – 04:30 PM (Venue: Heat Engine Lab)	Technical Session – I (Energy Engineering) Room – 202	Technical Session – II (Materials Science) Room – 203
	Technical Session – III (Related Technology) Room - 204	Technical Session – IV (Fluid Mechanics) Seminar Room
04:30 PM – 06:00 PM	Tea & Prayer Break	
06:00 PM – 07:30 PM (Venue: Heat Engine Lab)	Technical Session – V (Applied Mechanics and Mechatronics) Room – 202	Technical Session – VI (Materials Science) Room – 203
	Technical Session – VII (Related Technology) Room - 204	Technical Session – VIII (Thermal Engineering) Seminar Room
08:00 PM	Grand Dinner	



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21 December, 2022 Wednesday		
Time & Venue	Program	
8:00 AM – 8:30 AM (Venue: Heat Engine Lab)	Registration & Kit Collection	
8:30 AM – 10:30 AM (Venue: Heat Engine Lab, Seminar Room)	Keynote Session-II (Online) Keynote Speakers Speaker-IV: Professor Muhammad Aziz (08:30 AM – 09:00 AM) Speaker-V: Professor Dr. Chunning Ji (09:00 AM – 09:30 AM) Speaker-VI: Professor Xingjian Jing (09.30 AM – 10.00 AM) Speaker-VII: Professor Takeshi Mizuno (10:00 AM – 10:30 AM)	
10.30 AM – 11.00 AM	Refreshment	
11:00 AM – 01:15 PM (Venue: Heat Engine Lab)	Technical Session – IX (Energy Engineering) Room – 202	Technical Session – X (Industrial and Production Engineering) Room – 203
	Technical Session – XI (Poster Presentation) Room – 204	Technical Session – XII (Online) (Applied Mechanics and Mechatronics) Seminar Room
01:15 PM – 02:30 PM	Lunch and Prayer Break	
02:30 PM – 4.30 PM (Venue: Heat Engine Lab, Room - 204)	Keynote Session-III Keynote Speakers Speaker-VIII: Professor Md. Mahbub Alam (02:30 PM – 03:00 PM) Speaker-IX: Prof. Himadri Chattopadhyay (03:00 PM – 03:30 PM) Speaker-XI: Professor Somnath Chattopadhyaya (03:30 PM – 04:00 PM) Speaker-XII: Prof. Santanu Bandyopadhyay (4:00 PM – 04:30 PM)	
04:30 PM – 05:45 PM	Tea and Prayer Break	
05:45 PM – 06.15 PM	Sponsor's Presentation	
06:15 PM – 07.30 PM	Closing Session (Venue: Heat Engine Lab, Seminar Room)	
7.30 PM	Dinner	



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22 December, 2022

Thursday

Post Conference Tour

Time: 9:00 am

Keynote Sessions

Keynote Session-I

Session Chair: Dr. Muhammad Mustafizur Rahman

Session Co-Chair: Dr. Md. Nurul Islam

Keynote Session-II

Session Chair: Professor Firoz Alam

Session Co-Chair: Professor Yingai Jin

Keynote Session-III

Session Chair: Prof. Dr. Mohd. Rafiqul Alam Beg

Session Co-Chair: Prof. Dr. Mamdud Hossain



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Paper ID	Technical Session-I (Energy Engineering) 20 December, Tuesday 02:30 PM – 4:30 PM Venue: Room No.: 202 Chair: Professor Firoz Alam Co-Chair: Dr. Md. Rokunuzzaman (Paper ID: 12, 14, 17, 72, 89, 118, 192, 224 - Total: 08)	Page No.
12	Bio-methane potential of biogenic residues available in Bangladesh <i>Chayan Kumar Saha, Shammi Akter, Mst. Lucky Khatun, Jannatoon Nime, Md.Monjurul Alam</i>	
14	A Fuzzy Logic Based Fast and Adaptive Hybrid Incremental Conductance Maximum Power Point Tracking Algorithm for Solar Panel <i>Kazi Samira Shamsi Huq, Md Saiful Islam, Md Tazul Islam</i>	
17	Industrial Energy Management Related to LPG Bottling Plants <i>M. A. Islam, K. A. Rahman, M. T. Islam, S. C. Banik</i>	
72	A Case Study on Hybrid Power Systems Using HOMER Pro: Design, Optimization and Comparison of Different Configurations <i>Khaled Mohammad Shifullah Bhuiya, Md. Mostafizar Rahman Rony, Sabbir Ahmed Udo, Showmitro Bhowmik, Nahid Imtiaz Masuk, Asif Chowdhuri Diganta, Md. Hasibul Hasan, Misbahul Islam, Md. Ashrafal Islam, A K M Saif Shariar, Abdullah Al Fahim</i>	
89	Design and simulation study of H type Darries Vertical Axis Wind Turbine (VAWT) using fixed Flap Technique <i>Md. Monoarul Islam, Md. Shakil Ahmed, Md. Shafikul Islam</i>	
118	A Review of The Establishment of an Effective Photobioreactor for Growing Algae <i>Md. Mirazul Islam, Hasibul Alam</i>	
192	Fabrication and performance analysis of a hydroxy gas generator using various electrode in different electrolyte condition, temperature and time <i>Pranta Dutt, Md. Mizanur Rahman, Ashraf Mahmud Rayed, Mahibu Zzaman, Rakib Bin Nasir</i>	
224	Enhancing Passive Pyramid Solar Still Performance Using Square and Circular Hollow Fins with Nano Particles and Porous Material <i>Asma-UL-Husna, Md. Forhad Hossain Hemal, Md. Jasem, A. H. M. Ibnul Arabi</i>	



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Paper ID	Technical Session – II (Materials Science) 20 December, Tuesday 02:30 PM – 4:30 PM Venue: Room No.: 203	Page No.
	Chair: Dr. Md. Shahidul Islam Co-Chair: Dr. Md. Bodiul Islam (Paper ID: 3, 28, 36, 70, 75, 77, 78, 84 - Total: 08)	
3	Synthesis of A Novel Super Absorbent based on Wheat Straw <i>Anupam Saha, Md. Shahjahan</i>	
28	Influence of Interlayer Thickness on Singular Stress Field in Piezoelectric Bonded Joint <i>Md. Sadman Iram Fahim, Md. Shahidul Islam</i>	
36	Green in situ coating of silver nanoparticles on woven cotton fabric using Azadirachta Indica (Neem) leaf extract for developing conductivity <i>Tamal Krishna Paul, Mohammad Abdul Jalil, Pranto Kumar Mondal, Md. Abdul Alim</i>	
70	Sol-Gel Synthesis and Characterization of Titanium Dioxide Nanoparticles <i>Most. Mahfuza Khatun, M. Bodiul Islam, and Hasnat Jahan Sumona</i>	
75	Thickness-dependent Ferroelectric Properties of Ni-doped BiFeO ₃ Multiferroic: A Simulation-based Study Using TCAD (Tentative title) <i>Tasmi Akter, Md. Rafiqul Islam</i>	
77	Environment Friendly Approach to Synthesize Undoped and Cobalt Doped TiO ₂ Nanoparticles Using Polyalthia Longifolia Leaf Extract and Study on Their Morphological, Structural, and Photocatalytic Properties <i>Foysal Anwar; Maria Ferdous Monika; Asrafuzzaman</i>	
78	Eco-Friendly Green Synthesis of Undoped and Ag Doped TiO ₂ Nanoparticles using Mango Leaf Extract and Study on their Morphological, Structural, and Photocatalytic Properties <i>Tasnuva Zahan Liza; Md Mahamud Hasan Tusher; Asrafuzzaman</i>	
84	Numerical study of Negative Stiffness Honeycomb Structure for energy absorption applications <i>Md Mehidi Hasan, Md. Naimur Rahman Antu, Md. Shariful Islam</i>	



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Paper ID	Technical Session – III (Related Technology) 20 December, Tuesday 02:30 PM – 4:30 PM Venue: Room No.: 204	Page No.
	Chair: Prof. Dr. Mamdud Hossain Co-Chair: Dr. Barun Kumar Das (Paper ID: 19, 58, 62, 119, 121, 130, 141, 154 - Total: 08)	
19	An investigation on food safety knowledge, attitude and practice (KAP) among untrained vegetable vendors in Rajshahi city of Bangladesh <i>Md. Sajjad Hossain, Pias Sarker, Raihan Islam</i>	
58	A Modern Approach to Develop an IoT-Based Automatic Weather Monitoring Smart Irrigation System <i>Shezan Ahmmed, Prangon Das, Gulam Rabbani, Md. Hafizur Rahman, Mohammad Fahim Hossain, MD. Hasibul Islam Hasib, Shahorin Akter Shima, Nahida Akter, Md. Manirul Islam</i>	
62	Industrial-Scale Bioethanol Production from Potato Peel Wastes: A Quick Assessment by Simulation <i>Farzana Haque Reeti, Maria Mostari, Sajib Dey</i>	
119	Knowledge & Behavior of Using Tele-health among University Students of Bangladesh: A Cross-Sectional Study <i>MST. Kamrun Nahar Sorna, Md. Al Mamun, Md. Mirazul Islam</i>	
121	A Study on Food Consumption Patterns and Behavior and Related Diseases Among University Students <i>Md. Haque, MST. Kamrun Nahar Sorna, Md. Al Mamun, Md. Mirazul Islam</i>	
130	Effect of physico-chemical treatment and drying temperature on drying kinetics and quality characteristics of green mango pulp <i>S.M. Jahir Rayhan, Sk. Fahim Tahmid Boni, Md. Sajjad Hossain, and Mohammad Nurur Rahman</i>	
141	Characterization of Silica, Carbonyl Iron and Charcoal Micro-particles using Digital Image Analysis <i>Mohammad Nurur Rahman, Abdullah-Al-Noman, Tarikul Islam</i>	
154	Catalytic Converter and Its Revolution for Automobile Exhaust Emissions: A Review <i>Shurid Singha, Mohammad Iqbal Hossain, Tashriful Huda Toushi, Jannatun Nayem Nimu</i>	



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Paper ID	Technical Session – IV (Fluid Mechanics) 20 December, Tuesday 02:30 PM – 4:30 PM Venue: Seminar Room	Page No.
	Chair: Dr. Mohammad Rofiqul Islam Co-Chair: Dr. Mohammad Nurur Rahman (Paper ID: 11, 23, 41, 71, 123, 219, 223, 226 - Total: 08)	
11	Stability and Sensitivity Analysis of Darrieus Wind Turbine CFD Simulations at Low Tip Speeds <i>Md. Mahmud Hasan Saikot, Siam Mahbub, Mahfuzur Rahman</i>	
23	Study of the Aerodynamic Characteristics of a Supercritical Airfoil under Supersonic Flow <i>Aquib Bin Yousuf, Tasfia Maysa Binte Kamal</i>	
41	Lift and Drag analysis of a fixed wing Mini UAV using CFD <i>Md. Abir Hasan Jilan, Partha Das, Shihab Ar Rasad, Turag Dev</i>	
71	Viscous Dissipation of Supercritical CO ₂ Turbulent Flow through the Rotating Annulus <i>Md Uddin, Alex Klimenko and Zhiqiang Guan</i>	
123	Design and Numerical Study of a Minor Flow Channel Based Virtual Impactor as Mono-disperse Aerosol Generator and a Comparative Study of The Current Technologies for Aerosol Generation <i>Miftahul Mobin Chowdhury, Md. Imrul Kayes and Muhammad Sammam Sadid</i>	
219	Drag Reduction of Bullets by Using Various Dimple Surfaces on Its Body: a Comprehensive CFD Study <i>Konok Chandra Bhowmik, Md. Arafat Rahman, and Syed Mohammad Ikram</i>	
223	CFD Validation of NACA 2412 Airfoil and Comparison with NACA 0012 and NACA 4412 <i>S. Roni, M. A. K. I. Shahid, M. R. Ahmed, M.E.Hoque</i>	
226	Design and Characteristics Analysis of NACA 9421 Airfoil <i>Md. Rubel Hossain, Shafaul Haque, Tasnuva Tabashhum Choudhury</i>	



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Paper ID	Technical Session – V (Applied Mechanics and Mechatronics) 20 December, Tuesday 6:00 PM – 7:30 PM Venue: Room No.: 202 Chair: Dr. Md. Emdadul Hoque Co-Chair: (Paper ID: 33, 37, 92, 108, 158, 175, 217, 218 - Total: 08)	Page No.
33	A Smart Approach to Control a Two-Wheeled Self Balancing Robot Using a PID Controller With Two Degree of Freedom <i>Saydul Mursalin Peash, Prangon Das, Anik Ghosh, Nazmul Islam, Ahnaf Tanjid, Hredita Paul Oaishi, Bishowjit Paul, Md. Manirul Islam</i>	
37	IoT Based Multi-Purpose Smart Automated Gas Hazard Prevention System <i>Shadman Mubasshir Taron, Prangon Das, Meraj Ahmed, Tahir Hasan, Nafees Aur Rakib, Md. Iftekhharul Alam, Md. Manirul Islam</i>	
92	Design and Fabrication of a 360° Rotating Smart Table Fan with IoT Based Control System. <i>Mohammad Saiful Islam, Ratan Kumar Das, S. M. Minhazul Islam</i>	
108	An Efficient Treadmill Walking Cycle <i>Syed Md. Faiyaz Amin, Aditya Shekhar Ghosh, S.M. Minhazul Islam, Md. Sherazul Islam Murad</i>	
158	Advanced Automated Greenhouse System Designed to Implement Automation Controlling Environmental Air and Soil Entities. <i>MD. Ehsanul Islam Zafir, Prangon Das, MD. Abdul Kaium Shohug, Masbul Haider Ovi, Mehedi Hasan Mridul, Sudip Das, Thuhinul Islam, and Md. Manirul Islam</i>	
175	Vision-Based Human Action Recognition Using a CNN Model <i>Razia Sultana, Roknuz Zaman, Prangon Das, Puja Mazumdar, Sadia Tasneem, Arpita Karmakar, Dr. Md. Rokunuzzaman, Md. Robiul Islam</i>	
217	IoT implemented VoIP systems signal analysis using MATLAB <i>M. Matsive Ali, Avijit Mallik, Mhia Md. Zaglul Shahadat</i>	
218	Automation of small-scale industrial water purification plant <i>Md. Khorshed Alam, Shahajada Mahmudul Hasan, Md. Nahid Hossan</i>	



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Paper ID	Technical Session – VI (Materials Science + Energy Engineering) 20 December, Tuesday 6:00 PM – 7:30 PM Venue: Room No.: 203	Page No.
	Chair: Dr. Sirajul Karim Choudhury Co-Chair: Dr. Md. Abdul Kader (Paper ID: 87, 102, 136, 140, 147, 162, 222 - Total: 07)	
87	Effect of Temperature on the Tensile Properties of Adhesively Bonded Single Lap Joint <i>Md. Naimur Rahman Antu, Md Mehidi Hasan, Md. Shariful Islam</i>	
102	Observation of Crack Initiation, Propagation and Effect of Heat Treatment on Stainless Steel 316 (SS 316) <i>Md. Nurul Islam, Md. Tamzid Ahmed, Md. Ansarul Haque, Abdul Mojid Parvej</i>	
136	Estimating Solar Panel Performance Integrated with Fundamental Reflectors Along With Cooling <i>Md. Sherazul Islam Murad, S.M. Tanvir Ahmed, Md. Shariful Islam, Tushar Jahid, Faiyaz Amin, Kazi Afzalur Rahman</i>	
140	Design And Simulation of A Thermal Energy Storage With Encapsulated Eutectic Phase Change Material Made of Polyurethane And Na ₂ SO ₄ .6H ₂ O For Heat Storage Applications <i>Miftahul Mobin Chowdhury, Nirendra Nath Mustafi, Md. Imrul Kayes, Muhammad Sammam Sadid</i>	
147	A study on the development of cellulose-based bioplastics from water hyacinth (Eichhornia Crassipes) and their properties <i>Mohammad Nurur Rahman, Raisa Mumtaz, Runa Afroz Rintu, Raisul Islam Ayon, Tanvir Mahmud</i>	
162	Effect of Zinc Doping on the Properties of Nickel Oxide Films <i>Mst. Esmotara Begum, M. Bodiul Islam, and Md. Rasadujjaman</i>	
222	Energy, Exergy and Efficiency Analysis of Power Generation Sectors of Bangladesh <i>Md. Mahmudul Hasan, Md. Ashiqul Islam Ashik, Md. Emdadul Hoque</i>	



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Paper ID	Technical Session – VII (Related Technology + Applied Mechanics and Mechatronics) 20 December, Tuesday 6:00 PM – 7:30 PM Venue: Room No.: 204	Page No.
	Chair: Dr. Md. Shamim Akhter Co-Chair: Dr. Mohammad Shahed Hasan Khan Tushar (Paper ID: 155, 164, 167, 182, 183, 199, 209 - Total: 07)	
155	A Novel Docking System for Autonomous Underwater Vehicles <i>Gazi Abdullah Mashud, Tihan Mahmud Hossain, Utsha Kumar Roy, Shugata Ahmed</i>	
164	An Experimental Analysis of the Effects of Front Total Toe-out Angle on Tire Life and Wear for a Light Vehicle <i>Riton Kumer Das, Md. Abu Mowazzem Hossain, Md. Tazul Islam and Sajal Chandra Banik</i>	
167	Design and Development of a Physical Remediation Technique to Deal with Oil Spill Incidents <i>Md. Bayazid Ahmed, A. S. M. Sayem</i>	
182	A Review Study of the Consistency of Vitamin B12 in Marketed Microalgae Powders <i>Md. Mirazul Islam, Salma Akhter</i>	
183	Spectrum Analysis based Rice Disease Identification using Ensemble Classifier <i>Md. Muksit Ul Islam, Dr. S.M. Taohidul Islam, Sarna Majumder</i>	
199	Oxidative Degradation Analysis of Engine and Gear Oil of An Automobile by FTIR Spectroscopy <i>Mim Mashrur Ahmed, Md. Azwad-Uz Zaman, Most. Nishat Fariha and Md. Emdadul Hoque</i>	
209	Condition-Based Predictive Maintenance of Oil-Wetted Machinery by In-Service Oil Analysis: A Comprehensive Review <i>Faysal Ahmed, Utpal Kumar Paul, Mim Mashrur Ahmed, Durjoy Kumar Paul and Md. Emdadul Hoque</i>	



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Paper ID	Technical Session – VIII (Thermal Engineering + Energy Engineering) 20 December, Tuesday 6:00 PM – 7:30 PM Venue: Seminar Room Chair: Dr. Muhammad Mustafizur Rahman Co-Chair: Dr. Md Shazib Uddin (Paper ID: 29, 107, 135, 144, 165, 198, 214 - Total: 07)	Page No.
29	Development and Performance Analysis of a Box Type Solar Cooker Working on Low-Cost Thermal Energy Storage Material <i>M. Reasad, M. T. Islam, S. Sumaiya</i>	
107	Solar Home Systems (SHS) in the Context of Bangladesh: An Assessment of Rooftop PV Systems for Net Energy Metering Options <i>Miftahul Mobin Chowdhury, Md. Imrul Kayes and Muhammad Sammam Sadid</i>	
135	Techno-economic Evaluation of Sustainable Solar Irrigation in Northern Region of Bangladesh <i>Miftahul Mobin Chowdhury, Md. Sanowar Hossain, Md. Imrul Kayes and Muhammad Sammam Sadid</i>	
144	Effect of Pre-treatment and drying temperature on Drying Kinetics of Litchi Seeds in a Convective Dryer <i>Md. Sumon Ali, Md. Touhidul Islam, Mohammad Nurur Rahman, Md. Sajjad Hossain</i>	
165	Modelling of Mechanical & Thermal Properties of Aerogel as an Efficient Insulating Material <i>Mohammad Nurur Rahman, Md Abid Hasan Badhon, Dipto Das, and Sk. Fahim Tahmid Boni</i>	
198	Experimental Analysis of Hybrid Refrigerators including Thermoelectric and Vapor Compression Refrigeration Systems <i>Yifan Li, Bowen Xie, Mingjie Lv, Yingai Jin</i>	
214	Integration of Ion Transport Membrane with conventional powerplant to obtain pure oxygen and more efficient power production <i>Arnob Das, Susmita Dutta Peu, Emdadul Hoque, Asif Chowdhury Diganta, Monika Moitro</i>	



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Paper ID	Technical Session – IX (Energy Engineering) 21 December, Wednesday 11:00 AM – 01:15 PM Venue: Room No.: 202	Page No.
	Chair: Dr. Nirendra Nath Mustafi Co-Chair: Dr. Md Rabiul Islam Sarker (Paper ID: 90, 132, 134, 142, 146, 200, 211, 216, 222 - Total: 08)	
90	Effects of Cultivation Modes, Organic & Mixed Substrate Concentration on Mixed Culture Algae Growth <i>Md. Shafiur Rahman, S M Hasan Shahrirar Rahat, Roni Basak, Md. Mirazul Islam, Md. Salatul Islam Mozumder</i>	
132	Design and erection of an self-executing solar trailing system & comparable interpretation of that system <i>Md. Sherazul Islam Murad, Md. Raquibul Islam, Rafid Rizwan Imam, Md. Shariful Islam, Tushar Jahid, Md. Sanaul Rabbi</i>	
134	Process Simulation of Carbon Dioxide Gas Stream Dehydration from Flue Gas <i>Md. Shafiur Rahman, Jotirmoy Aich, Roni Basak, Md. Mirazul Islam</i>	
142	Design of A Pilot Scale Fluidized Bed Gasifier for Non-Woody Biomass Feed <i>Mirazul Islam, Anindya Fauzdar, Md. Shafiur Rahman, Md. Mirazul Islam</i>	
146	Experimental and Numerical Studies of Earth to Air Heat Exchanger (EAHE) Systems: A Review <i>Asif Hassan, Md. Mostafizar Rahman Rony, Khaled Mohammad Shifullah Bhuiya, Sabbir Ahmed Udooy, Dr. Nirendra Nath Mustafi</i>	
200	Recent Advancement in Solar Water Desalination: A Comprehensive Review <i>Mehedi Hasan, Chaitanya Roy Chowdhury, Md. Rafsanjane and Durjoy Kumar Paul</i>	
211	Fabrication of a Vaccine Carrier Using Phase Change Material (PCM) <i>S.M. Muhtasimur Rahim, Labid Rahat, Nirendra Nath Mustafi</i>	
216	Analysis of the influences of temperature, solar irradiation, reverse saturation current, series resistance and shunt resistance on solar cell <i>Arnob Das, Susmita Dutta Peu, Emdadul Hoque, Asif Chowdhury Diganta, Disha Dev</i>	



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Paper ID	Technical Session – X (Industrial and Production Engineering) 21 December, Wednesday 11:00 AM – 01:15 PM Venue: Room No.: 203 Chair: Dr. Md. Mosharraf Hossain Co-Chair: Dr. Shahajada Mahmudul Hasan (Paper ID: 106, 128, 143, 160, 161, 193, 201, 202, 203, 204 - Total: 10)	Page No.
106	A comparison of alternative approaches to forecast sales values using machine learning <i>Asif Iqbal, Md. Ashfaq Shahriar, Toukir Ahmed</i>	
128	Reengineering of the Design Process of an Electric Bicycle in the Context of Bangladesh <i>Fahim Ul Haque, Mohammed Junayet Hossain Khan, Md Abu Naim Shakil, Md. Sazol Ahmmed, Md. Ariful Haque, S. M. Risalat Hasan, Md. Nahin Ferdous</i>	
143	Design & Fabrication of an Industrial Product Distinguisher with Modern Control System <i>Md. Sherazul Islam Murad, Md. Ekramul Hasan, Md. Hasibul Hasan, Jahid Hasan, Aditya Shekhar Ghosh, Sheikh Muhammad Humayun Kabir</i>	
160	Risk Assessment of Power Supply Failure of an Industrial Floor by Using Fault Tree Analysis <i>Sohanul Ahasan, S.M. Sakib Hasan, Md. Rasel Sarkar</i>	
161	Finding the Influence of Motivational Factors on Employee Performance: A Case Study on NGO Workers of Bangladesh <i>Sohag Miah, Mahmudur Rahman, Md. Rasel Sarkar</i>	
193	Fabrication and analysis of semiautomatic pigment mixing machine for paint production <i>Md. Nayem Hasan, Redoy Masum Meraz, Md. Mizanur Rahman, Md. Ajwad Mohimin, Rakib bin Nasir, Ashraful Zannat Akhi</i>	
201	Heuristic-based line efficiency improvement in a shirt industry: a case study <i>Md. Safayat Hoque, Abdul Halim, Khairun Nahar</i>	
202	Predicting Daily Demand in Blood Bank to Minimize the Shortage by Using Auto Exponential Smoothing Method (AESM): A Case Study of Rajshahi City <i>Lion Mahmud Noyon, Nima Akter Sweety, Khairun Nahar</i>	
203	Economic Impact of Covid-19 on FMCG Industry in Bangladesh: A Case Study <i>Md. Asif Al Arafat, Fahim Foysal, Khairun Nahar, Md. Ariful Haque</i>	
204	Overall Equipment Effectiveness (OEE) Calculation in Manufacturing Industries: A Case Study <i>Md. Ariful Haque, Mahmudur Rahman, Sohag Miah, A M Almas Shahriyar Azad</i>	



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Paper ID	Technical Session – XI (Poster Presentation) 21 December, Wednesday 11:00 AM – 01:15 PM Venue: Room No.: 204	Page No.
	Chair: AFM Rashidul Hasan Co-Chair: Dr. Mhia Md. Zaglul Shahadat (Paper ID: 61, 63, 65, 66, 69, 91, 127 - Total: 07)	
61	Preliminary Design of a Decentralized Water Treatment Network for a City Area <i>Shammi Akter, Mirza Shahrin Tabassum, Mst. Mitu Mostazir, Md. Julkor Nayin, Sajib Dey</i>	
63	An IoT-based automated system for Sustainable Crop Protection from Rain, Hail, and Fog <i>Md. Sazzad Hossen, Khandakar Shadman Shayer, Khandakar Rabbi Ahmed, Md Alomgir Hossain</i>	
65	A Smart Automated Greenhouse System for Bangladesh's Environment <i>Khandakar Rabbi Ahmed, Md. Badoruzzaman, Md. Sohel Rana, Md Alomgir Hossain</i>	
66	Valorisation of Plastic Wastes via Thermochemical Routes: Opportunities and Challenges in the Context of Bangladesh. <i>Sajib Dey, Mst. Mitu Mostazir, Md. Julkor Nayin</i>	
69	A greener solution for the mitigation of indoor air pollution: where technology synergizes with nature <i>Sajib Dey, Pias Sarker, Md Ashikur Rahman Khan, Nisat Tasnim Songeeta, Md Khalid Al Zuhanee</i>	
91	Reduction of Shockwave Reflection in Scramjet Isolator Section <i>Md. Ashraf Uddin Ador, S. M. Minhazul Islam</i>	
127	Biodiesel Production from Microalgae: Process Design <i>Taslina Islam Nadi, Md. Mirazul Islam, Farian Mehjabin, S M Hasan Shahrirar Rahat, Md. Salatul Islam Mozumder</i>	



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Paper ID	Technical Session – XII (Applied Mechanics and Mechatronics) 21 December, Wednesday 11:00 AM – 01:15 PM Venue: Room No.: Seminar Room Chair: Dr. Md. Shamsul Alam Co-Chair: Dr. Sajal Kumar Das (Paper ID: 221, 24, 225, 178, 190, 197, 205, 206, 208, 213 - Total: 10)	Page No.
221	Near Wake of Wavy Elliptic Cylinder at a Low Reynolds Number <i>Xiaoyu Shi and Md. Mahbub Alam</i>	
24	A Review on Solar Drying Performance Analysis with PCM Materials of Different Products <i>A Tarafder, M. T. Islam, Md. Masum Rana Pramanik, Afsanul Haque, Sagar Talukder</i>	
225	Development of an integrated PV solar panel cooling system by using fin, DC fan, thermoelectric regenerator and water sprayer <i>Md. Emdadul Hoque, Foysal Ahmed Shipon, Zahir Raihan</i>	
178	Development of a Budget-Friendly Sound-Assisted Navigation System for People with Visual Impairment <i>Afifa Akter, Prangon Das, Shahariar Hossan, A. K. M. Mohibur Rahman, Faiduzzaman Ifad, Multazimul Islam, S. M. Rakib Uddin, Md. Manirul Islam, and Md. Emdadul Hoque</i>	
190	IoT-Based Home Automation System: A Comprehensive Approach by NodeMCU with Android Application <i>R. K. Reja, Sarafat Hussain Abhi, Prangon Das, Ruhul Amin, Wasif Ahmed, Md. Facklasur Rahman</i>	
197	Design and Development of an Autonomous Robot for Municipal Waste Collection <i>Md. Rokunuzzaman, Prangon Das, Md. Towhidur Rahman, Khalid Morshed</i>	
205	Development of An Automatic Pedestrian Safety System in Bangladesh <i>Md. Rokunuzzaman, Mim Mashrur Ahmed, Shibaji Talukder and Tanzil Ul Haque</i>	
206	Design & Development of Arduino-based Alcohol Sensing and Dizziness Detecting Braking System <i>Md. Naimur Asif Borno, Prangon Das, Md. Touhid Islam, Mushfique Ahmed, Azim Miah, Nadia Kachmina Prioty and Manirul Islam</i>	
208	Bowling Action Legality Testing in the Light of Biomechanics: A Review <i>Md. Ramim-Ul Hasan, Md. Sanowar Hossain</i>	
213	Integrating Artificial Intelligence and IoT in Automation of a Manufacturing Device <i>Ashraful Islam, Kazi Shakhaowat Hossain Mony, Shahajada Mahmudul Hasan, Md. Elias Hossen</i>	