



2<sup>nd</sup> International Conference on Mechanical,  
Manufacturing and Process Engineering (ICMMPE - 2024)  
29 - 30 May 2024

Venue: DUET, Gazipur, Bangladesh  
Mode: Hybrid (Physical and Virtual)



**Day-1: May 29, 2024: 8:00 AM – 4:30 PM**

Time	Program	Venue
8:00 AM -8:30 AM	Registration	DUET Campus (Room 11007, NAB)
8:30 AM -9:30 AM	Opening Ceremony	Auditorium
Zoom Link: e10@duet.ac.bd <a href="https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&amp;omn=97934161648">https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&amp;omn=97934161648</a> Meeting ID: 850 410 3243; Password: ICMMPPE		
9:30 AM – 10:10 AM	Keynote Speaker 1: <b>Professor Dr. Mustafizur Rahman,</b> National University of Singapore	Auditorium
Zoom Link: e10@duet.ac.bd <a href="https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&amp;omn=97934161648">https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&amp;omn=97934161648</a> Meeting ID: 850 410 3243; Password: ICMMPPE		
10:10 AM – 10:50 AM	Keynote Speaker 2: <b>Professor Dr. Md. Abul Kalam</b> University of Technology Sydney, Australia	Auditorium
Zoom Link: e10@duet.ac.bd <a href="https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&amp;omn=97934161648">https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&amp;omn=97934161648</a> Meeting ID: 850 410 3243; Password: ICMMPPE		
10:50 AM – 11:20 AM	Tea Break	
11:20 AM – 01:00 PM	Technical Session 1	Room 11001, 11003, 11005 (NAB)
01:00 PM-02:00 PM	Lunch and Prayer Break	
2:00 PM – 2:40 PM	Keynote Speaker 3: <b>Professor Zhong Tao</b> & <b>Dr. Md Abdul Alim</b> Western Sydney University Penrith, Australia	Room 330 (Virtual Class Room)
Zoom Link: e7@duet.ac.bd <a href="https://bdren.zoom.us/j/8076411234?pwd=b0RxsS29mdStKZEFBTjdLbGxnZDgwZz09&amp;omn=94960266928">https://bdren.zoom.us/j/8076411234?pwd=b0RxsS29mdStKZEFBTjdLbGxnZDgwZz09&amp;omn=94960266928</a> Meeting ID: 807 641 1234; Password: icmmpe		
2:40 PM – 4:10 PM	Technical Session 2	Room 11001, 11003, 11005 (NAB)
4:10 PM – 4:30 PM	Tea Break	
4:30 PM – 5:30 PM	Technical Session 3	Room 11001, 11003, 11005 (NAB)



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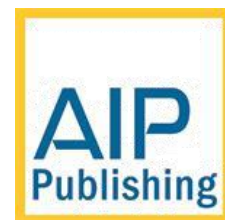


**Day 2: May 30, 2024: 8:30 AM – 4:30 PM**

Time	Program	Venue
8:00 AM -8:30 AM	Registration	DUET Campus (Room 11007, NAB)
8:30 AM -9:10 AM	Keynote Speaker 4: <b>Dr. Muhammad M. Rahman,</b> Rice University, Texas, USA  Zoom Link: e7@duet.ac.bd <a href="https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&amp;omn=94960266928">https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&amp;omn=94960266928</a> Meeting ID: 807 641 1234; Password: icmmpe	Room 330 (Virtual Class Room)
9:10 AM -9:40 AM	Keynote Speaker 5: <b>Dr. Hiromichi OBARA</b> Tokyo Metropolitan University, Japan  Zoom Link: e7@duet.ac.bd <a href="https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&amp;omn=94960266928">https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&amp;omn=94960266928</a> Meeting ID: 807 641 1234; Password: icmmpe	Room 330 (Virtual Class Room)
9:40 AM – 10:00 AM	Tea Break	
10:00 AM -11:30 AM	Technical Session 4	Room 11001, 11003, 11005 (NAB)
11:30 AM – 01:00 PM	Technical Session 5	Room 11001, 11003, 11005 (NAB)
01:00 PM – 02:00 PM	Lunch and Prayer Break	
2:00 PM – 3:40 PM	Technical Session 6	Room 11001, 11003, 11005 (NAB)
3:40 PM – 4:00 PM	Tea Break	
4:40 PM – 6:30 PM	Journey to Amana Foodville Restaurant, 3rd Floor, SKS Shopping Mall, Mohakhali, Dhaka 1206.	
6:30 PM – 9:00 PM	Closing Ceremony & Conference Grand Dinner	Amana Foodville Restaurant, 3rd Floor, SKS Shopping Mall, Mohakhali, Dhaka 1206.



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**May 29, 2024: Technical Session – 1: (Room 11001)**

**Time: 11:20 AM – 01:00 PM**

<p style="text-align: center;"><b>Session Chair:</b> Prof. Dr. Md. Iqbal Mahmud Chairman, Department of Mechanical Engineering Mawlana Bhashani Science and Technology University, Tangail Email: me.chairman@mbstu.ac.bd</p>	<p style="text-align: center;"><b>Session Co-Chair:</b> Dr. Mohammed Mahbubul Islam Assistant Professor, Institute of EE DUET, Gazipur</p>
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Zoom Link: e7@duet.ac.bd

<https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&omn=94960266928>

Meeting ID: 807 641 1234; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
5	Mim Mashrur Ahmed, Md. Hasibul Hasan Himel, Mhia Md. Zaglul Shahadat and Mahadi Hasan Masud	A review on performance enhancement techniques of wind turbines: Bangladesh perspective	mashrur@me.ruet.ac.bd	Virtual
7	Rakib-bin-Nasir and A.S.M. Sayem	Refining and recycling of waste engine oils for cleaner environment	rakib.bin.nasir.7@gmail.com	Physical
24	Md. Mesbahul Bari, Hasan Muhommod Robin, Md. Toufiqur Rahman, M.R.I Sarker and A.S.M. Sayem	Effect of Particle Size on Exhaust Characteristics during the Combustion of High Grade Bituminous Coal Available in Barapukuria Coal mine	hmrobin98raj@gmail.com	Virtual
25	Md. Rasel Ahmed, Md. Abdul Aziz, Md. Rokauzzaman and Md. Rabiul Islam Sarker	Thermodynamic and economic assessment of a hybrid solar driven supercritical CO <sub>2</sub> cycle for multi-generation system	islamrabiul@yahoo.com	Virtual
27	Rumana Hoque Eka, Fuad Uddin Ahmad, Zannatul Mim and Mim Mashrur Ahmed	Energy generation potential from hydrogen generated from organic solid wastes: A case study on Dhaka city, Bangladesh	mashrur@me.ruet.ac.bd	Virtual
136	Anisul Islam Suva and Kazi Afzalur Rahman	Additive Manufacturing and Industry 4.0 Integration: An Approach For Bangladesh's Industrial Advancement [source: email]	anisulislam.me@gmail.com	Physical



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**May 29, 2024: Technical Session – 1: (Room 11003)**

**Time: 11:20 AM – 01:00 PM**

<b>Session Chair:</b> Professor Dr. Md. Kamruzzaman Dept. of ME DUET, Gazipur	<b>Session Co-Chair:</b> Dr. Biplov Kumar Roy Associate Professor, Dept. of ME, DUET, Gazipur
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Zoom Link: [e9@duet.ac.bd](mailto:e9@duet.ac.bd)

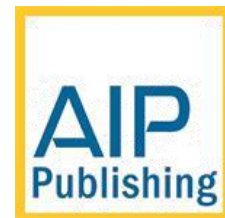
<https://bdren.zoom.us/j/2097032103?pwd=VWdGMjNUOEZvWTNWen1lcUY0ekFRdz09&omn=96579010000>

Meeting ID: 209 703 2103; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
6	Durjoy Datta Mazumder, Naimur Asif Borno, Touhid Islam, Anik Ghosh and Shourav Biswas	Anticipatory Modeling for Categorizing Phases in Ternary Alloys through Data-Driven Approaches	<a href="mailto:durjoydmazumder1813058@gmail.com">durjoydmazumder1813058@gmail.com</a>	<b>Physical</b>
10	Md Abdur Razzaq	Mechanical, and Optoelectronic Study of the Cs <sub>2</sub> NaBiX <sub>6</sub> (X = Cl, Br): A First-Principles Approach	<a href="mailto:razzaq@mbstu.ac.bd">razzaq@mbstu.ac.bd</a>	<b>Physical</b>
17	Md. Iqbal Hossain, Hasan Mahmud1, Md. Aftab Kamal Rohit, Md. Al-Riad Tonmoy and A.K.M. Ahsanul Habib	Polymeric Hydrogen Sorbent Materials for Hydrogen Storage Application: A Comprehensive Review	<a href="mailto:iqhossain552@gmail.com">iqhossain552@gmail.com</a>	<b>Physical</b>
19	Pabitro Prosad Mondal, Zarin Rafa Shaitee, Farjana Akhter Supty and Md. Emdadul Hoque	Fabrication and Characterization of Bismuth Titanate Loaded PVDF/PMMA Nanocomposites for Piezoelectric Nanogenerator	<a href="mailto:pabitroprosad2014@gmail.com">pabitroprosad2014@gmail.com</a>	<b>Physical</b>



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**May 29, 2024: Technical Session – 1: (Room 11005)**

**Time: 11:20 AM – 01:00 PM**

<b>Session Chair:</b> Prof. Dr. Md Rabiul Islam Sarker Head, Department of Mechanical Engineering RUET	<b>Session Co-Chair:</b> Professor Dr. Md. Mostaqur Rahman Dept. of ME DUET, Gazipur
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Zoom Link: e10@duet.ac.bd

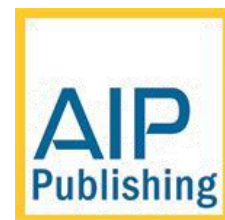
<https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZz09&omn=97934161648>

Meeting ID: 850 410 3243; Password: ICMMPE

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
9	Mashhud Hasan Al Faruq, A. S Jahin, Jahid Hossain Samin, Maliha Farhin Chhoa and Md. Hasib Ishraq Nokib	Numerical Investigation of Crude Oil Transportation by Core Annular Flow Along with Varying Flow Velocities and Annular Fluids	shuvromashud75@gmail.com	Virtual
16	Tinni Saha, Goutam Saha, Nazma Parveen and Tarikul Islam	Unsteady MHD TiO <sub>2</sub> -Kerosene Nanofluid Flow in Wavy Octagonal Cavity with Rectangular Vertical wall Insert	tinnisaha4@gmail.com	Physical
44	Md. Zahid Hasan and Mihir Ranjan Halder	Pressure Drop Analysis of Air-Water Two-Phase Flow in a U-Bend Pipe at Two Different Orientations by VOF Model	hasanmdzahid012@gmail.com	Physical
56	Sayed Tanvir Ahmed, Ratul Das, Tripta Sarker and Mahadi Hasan Shanto	Aerodynamic Effects of Leading Edge Flap Angle on NACA 4412 Airfoil Performance at Low Reynolds Numbers: A CFD Investigation	sytanvir.mech@gmail.com	Virtual
64	Romana Sultana, Saiful Islam, R.M. Ziaur and M.M. Rahman	Double Diffusive Mixed Convection in a Lid-Driven Trapezoidal Enclosure with Zigzag Bottom Wall Using Nanofluid	romanasultana123@gmail.com	Physical
82	Adittyabarua, Ratul Das and MM Roshid	Numerical Analysis of Two-Dimensional Arterial Model for Investigating Bubble Splitting Phenomenon	adittyabarua@yahoo.com	Physical



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**May 29, 2024: Technical Session – 2: (Room 11001)**

**Time: 02:40 PM – 04:10 PM**

<b>Session Chair:</b> Prof. Dr. Md. Nurul Islam Department of Mechanical Engineering RUET	<b>Session Co-Chair:</b> Professor Dr. Khurshida Sharmin Dept. of ME DUET, Gazipur
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Zoom Link: e7@duet.ac.bd

<https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&omn=94960266928>

Meeting ID: 807 641 1234; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
28	S Akter, IMR Fattah, M Mofijur, Arridina Susan Silitonga, Fitranto Kusumo and TMI Riayatsyah	Utilization of Machine Learning in the Production of Biodiesel as an Alternative Fuel	rizwanul.buet@gmail.com	Physical
45	Maria Jebin	Impact of External and Fixed Horizontal Shading Device Parameters on Energy Consumption for Residential Buildings in Context of Dhaka	mariajebin2013@duet.ac.bd	Physical
48	Md. Mohiuddin, Zahir U. Ahmed, Md Rhyhanul Islam and Ashfaqur Rahman	Performance Enhancement of Flow-Induced Energy Harvester through Integration of Semi-Circular PTC	moheuddin5011@gmail.com	Physical
62	Miah Himan, Md. Fozle Rabby, Md. Mehedi Hassan, Sabbir Ahmed and Md. Khaled Khalil	Assessing Cooling Effects on Floating Solar PV and Performance Comparison with Ground-Based PV Systems	miah.himan@gmail.com	Physical
72	Md. Sakib Hossain, Hasan Muhommod Robin, Md. Sifat Khan1, M.R.. Sarker and Taiyeba Nasrin	Performance Investigation of Solar Still by Using Al <sub>2</sub> O <sub>3</sub> Nanoparticles in Vacuum Condition	hmrobin98raj@gmail.com	Physical





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**May 29, 2024: Technical Session – 2: (Room 11003)**

**Time: 02:40 PM – 04:10 PM**

<b>Session Chair:</b> Professor Dr. Mohammad Asaduzzaman Chowdhury, Dept. of ME, DUET, Gazipur	<b>Session Co-Chair:</b> Professor Dr. Forkan Sarker, Dept. of TE, DUET, Gazipur
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Zoom Link: e9@duet.ac.bd

<https://bdren.zoom.us/j/2097032103?pwd=VWdGMjNUOEZvWTNWenl1cUY0ekFRdz09&omn=96579010000>

Meeting ID: 209 703 2103; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
12	Md. Nakib Hasan, Mohammed Rafi Islam Bhuiyan, Shafin Ahmed, Md. Kharshiduzzaman, Md. Ershad Khan and Md. Shahnewaz Bhuiyan	Effect of SLS and NaOH Chemical Treatments on Tensile Properties of Kenaf Fiber: A Comparative Analysis	nakibhasan403@gmail.com	Virtual
34	Shapla Dewanjee, M A Shadab Siddiqui and M S Rabbi	Optimizing the Damage Tolerance of Biocomposite under Low-velocity Impact Condition through Strategic Tuning of Natural Fiber Volume Fraction	rabbi@cuet.ac.bd	Physical
39	Md. Nurul Islam, Shuvendhu Malakar, Anik Kumar Malaker, Hironmoy Karmaker and Ayesha Siddique	Mechanical characterization of Aluminum Matrix Composite Reinforcement with Fly Ash, Al <sub>2</sub> O <sub>3</sub> and Fe <sub>2</sub> O <sub>3</sub>	hironmoykr@gmail.com	virtual
40	Abdullah Al Masud, Md. Rayhan Chowdhury, Saimul Hossen Sikder, Md. Kharshiduzzaman, Ahmed Fardin, M. Azizur Rahman, Md. Ershad Khan and Md. Shahnewaz Bhuiyan	Analysis of Deformation, Stress, and Strain Behavior of Bagasse-Reinforced Bio-composite under Tensile Loading: A finite element study using ANSYS Workbench	newaz.mpe@aus.t.edu	Physical
46	Raiyan Mohammad Iqbal, Md Arifuzzaman, Md Shariful Islam and Raju Ahammad	Mechanical Properties of Fly Ash/ Epoxy Composites using Fly Ash Obtained from Maitree Super Thermal Power Project, Rampal, Bangladesh	arif48@me.kuet.ac.bd	virtual



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**May 29, 2024: Technical Session – 2: (Room 11005)**

**Time: 02:40 PM – 04:10 PM**

<b>Session Chair:</b> Professor Dr. Mohammad Zoynal Abedin, Dept. of ME, DUET, Gazipur	<b>Session Co-Chair:</b> Professor Dr. Mohammed Moinul Islam, ME, & Head, Dept. of IPE, DUET, Gazipur
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Zoom Link: e10@duet.ac.bd

<https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZz09&omn=97934161648>

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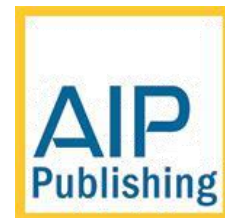
<b>Paper ID</b>	<b>Author</b>	<b>Paper Title</b>	<b>Presenting Author</b>	<b>Mode (Physical / Virtual)</b>
2	Md. Nurul Amin and Nazma Parveen	Finite Element Analysis Of Effects Of Temperature On Blood Flow In Human Atherosclerotic Radial Artery Under Heat Generation	<b>mnamin.buet@gmail.com</b>	<b>Physical</b>
29	Md. Mahafujur Rahaman, Sidhartha Bhowmick, Rabindra Nath Mondal and Suvash C. Saha	Unsteady Natural Convection Flow within a Trapezoidal Enclosure	<b>mahfuz0809@gmail.com</b>	<b>Physical</b>
33	Mohammad Junaid and Abul Mukid Mohammad Mukaddes	Human Body Temperature in an Air- conditioned Space and Thereafter in Outdoor Conditions: A Computational Investigation	<b>md.junaid.jkr@gmail.com</b>	<b>Physical</b>
49	Khadiza Begum, A. K. Azad and Salma Parvin	MHD Mixed Convection Flow of Nanofluid in a Wavy Cavity with a Solid Semicircle	<b>khadizadolly@gmail.com</b>	<b>Physical</b>
50	R. Biswas, M. N. Sohel and M. A. Taher	LBM Simulation of Heat Transfer and Fluid Flow in Wedge Ribs Microchannels	<b>tahermath@duet.ac.bd</b>	<b>Physical</b>





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**May 29, 2024: Technical Session – 3: (Room 11001)**

**Time: 04:30 PM – 05:30 PM**

<b>Session Chair:</b> Professor Dr. Animesh Sarkar Food Engineering & Tea Technology SUST	<b>Session Co-Chair:</b> Dr. Md. Shofiul Azam, Assistant Professor, Dept. of FE, DUET, Gazipur
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Zoom Link: e7@duet.ac.bd

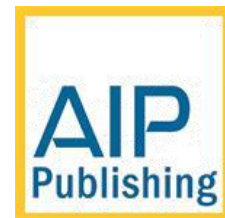
<https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&omn=94960266928>

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Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
18	Anisha Anjum Meem and Sourav Roy	Hand Gesture Controlled Pick and Place Robot	s.roy@mte.kuet.ac.bd	Physical
23	Md. Munna Gazi, Akib Atique Khan Dhrubo, Md. Razu Ahammad and Mahbuba Jannat	Extraction and Purification of Horseradish Peroxidase Enzyme to Degrade Phenols.	akhandhrubo@duet.ac.bd	Physical
31	Md. Rakibul Hasan and Md. Abdul Hannan	Scope of mordantless Guava Leave Extract Dyeing on Cotton	hmd77@duet.ac.bd	Physical
53	M. N. Sohel, R. Biswas, Afruza Khanom and M. A. Taher	Numerical Investigation of Thermal and Flow Behaviors in Positive and Negative Ramps of Sawtooth Microchannels	tahermath@duet.ac.bd	Physical
138	Amanullah Moral, Selim Reza, Rohul Amin and Mostafizur Rahmana	Fabrication and Characterization of biopolymer composite(PCL-TiO <sub>2</sub> ) for the enhancement of their mechanical properties	amanullah.me@outlook.com	Physical



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**May 29, 2024: Technical Session – 3: (Room 11003)**

**Time: 04:30 PM – 05:30 PM**

<b>Session Chair:</b> Professor Dr. Nayeem Md. Lutful Huq Dept. of ME, DUET, Gazipur	<b>Session Co-Chair:</b> Mohammad Afzal Hossain Associate Professor Food Engineering & Tea Technology SUST
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Zoom Link: e9@duet.ac.bd

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Meeting ID: 209 703 2103; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
30	Akib Ahmed, Sanjana Fyruj Ananna, Md. Tamzid Hossain Rifat, Md. Shahnewaz Bhuiyan and Fazle Rabbi	Design and Development of a Mechanical Braille Display	fazle.rabbi.mpe@aust.edu	Physical
38	Md. Rasel Rana and Mohammad Islam Miah	Experimental Investigation on Uniaxial Compressive Strength of Sedimentary Rock: A Case Study in the Chittagong Hilly Area, Bengal Basin	islam.m@cuet.ac.bd	Physical
51	Md Monir Hossain, Mohammad Afzal Hossain and Mohammad Muhshin Aziz Khan	From Industry 4.0 to Industry 5.0: A Review and Conceptual Framework	monir-fet@sust.edu	Physical
93	Pabitro Prosad Mondal and Md. Al-Riad Tonmoy	Synthesis and Characterization of Bismuth Titanate Nanoparticles and Bismuth Titanate/PLA Nanocomposite for Photocatalytic Degradation of Wastewater	alriadtonmoy@gmail.com	Physical
108	Md. Saiful Islam, Asif Kabir, SK Abdullaha Al Mamun, Md. Abdullah Al Mamun, Abdullah As Sayeed and M. Mahbubur Rahman	Experimental study of the Thermoelectric Refrigerating System without Compressor and Refrigerant	saifulmebuet@gmail.com	Physical



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**May 29, 2024: Technical Session – 3: (Room 11005)**

**Time: 04:30 PM – 05:30 PM**

<b>Session Chair:</b> Professor Dr. Md. Anowar Hossain Dept. ME, DUET, Gazipur	<b>Session Co-Chair:</b> Professor Dr. Mohammad Washim Dewan Dept. of ME, DUET, Gazipur
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Zoom Link: e10@duet.ac.bd

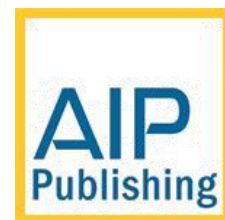
<https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZz09&omn=97934161648>

Meeting ID: 850 410 3243; Password: ICMMPE

<b>Paper ID</b>	<b>Author</b>	<b>Paper Title</b>	<b>Presenting Author</b>	<b>Mode (Physical / Virtual)</b>
20	Utsha Das and Tamzeed Ahmed Alvy	Numerical Study of Temperature Effects on the Performance of CdTe/CdS and CdTe/ZnSe Solar Cells Using SCAPS - 1D	tamzeedahmed@iut-dhaka.edu	Physical
78	S. M. Fahim Faisal, Sajal Chandra Banik, Tasnuva Jahan Nuva and Nusrat Sultana	An Analytics Model of Supply Chain Risk Optimization using Machine Learning	fahimfaisal@cuet.ac.bd	Physical
86	S. M. Rezaul Karim, Debasish Sarker and Md. Monirul Kabir	Analyzing the Impact of Dataset Size on Regression Performance of Machine Learning Algorithms for Solar Power Generation	rkarim@iubat.edu	Physical
96	Shihab Ahmed, Dhruba Das and Tahmidul Haque Ruvo	Modeling and Investigation of an Electric Cement Cooker Having Different Heat Source Configurations	ruvo-mee@sust.edu	Physical
99	Md. Kamruzzaman, Md. Mamun, Md. Oaliar Rahman and Md. Rabbul Ashrafi	360 Degree Rotating ICU Bed for Burn Patients: A Potential New Tool for Improved Treatment.	mamun193016@gmail.com	Physical



**2<sup>nd</sup> International Conference on Mechanical,  
Manufacturing and Process Engineering (ICMMPE - 2024)  
29 - 30 May 2024**



**Venue: DUET, Gazipur, Bangladesh  
Mode: Hybrid (Physical and Virtual)**

**May 30, 2024: Technical Session – 4: (Room 11001)**

**Time: 10:00 AM – 11:30 AM**

<b>Session Chair:</b> Professor Dr. Md. Arefin Kowser Dean, Faculty of Mechanical Engineering, DUET, Gazipur	<b>Session Co-Chair:</b> Professor Dr. Muhammad Abdur Rahman Bhuiyan, Dept. of TE, DUET, Gazipur
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Zoom Link: e7@duet.ac.bd

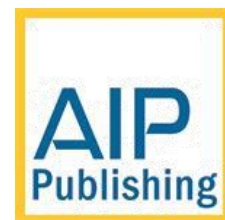
<https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&omn=94960266928>

Meeting ID: 807 641 1234; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
21	Diponkor Dutta Partha, Md. Saiful Islam and Md. Rakibul Hasan	Fuzzy Logic Controller based Speed control for Solar energized Industrial Transfer Car	partha840@yahoo.com	Physical
60	Lotif Gazi	The prospects of carbon capture and storage technology in Bangladesh perspective	lotifche@gmail.com	Physical
63	Kaushik Bhakta, Md Muntashir Mamun, Mahmudul Hasan and Ahmed Afif	Study of Ba <sub>1-x</sub> NaxCe <sub>0.7</sub> Zr <sub>0.1</sub> Y <sub>0.15</sub> Zn <sub>0.05</sub> O <sub>3-δ</sub> (x = 0.1, 0.3 & 0.5) Structures as Electrolyte for Proton Conducting Solid Oxide Fuel Cell	kaushikbhaktadhruba@gmail.com	Physical
95	Md. Mamun, Fatema Tuz Zahra, Md.Kawsarul Islam and Nayeem Md. Lutful Huq	A Review of Asian Countries' Current Nuclear Energy Development Prospects and Challenges.	ftzahra522@gmail.com	Physical
134	Saad Uddin Mahmud, Nibir Mondol, Md. Rafiqul Islam, Plaban Rudra Paul and Ananya Islam	Numerical Analysis and Performance Evaluation of Hybrid Perovskite Solar Cell Using SCAPS-1D	saaduddin.mahmud@gmail.com	Physical



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**May 30, 2024: Technical Session – 4: (Room 11003)**

**Time: 10:00 AM – 11:30 AM**

<b>Session Chair:</b> Professor Dr. A. N. M. Mominul Islam Mukut, Dept. of ME	<b>Session Co-Chair:</b> Dr. Anamul Hoque Bhuiyan Associate Professor, Dept. of TE DUET, Gazipur
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Zoom Link: e9@duet.ac.bd

<https://bdren.zoom.us/j/2097032103?pwd=VWdGMjNUOEZvWtNWen1lcUY0ekFRdz09&omn=96579010000>

Meeting ID: 209 703 2103; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
43	Md Tanvir Hossain, Md. Kharshiduzzaman, Ahmed Fardin, M. Azizur Rahman, Md. Ershad Khan and Md. Shahnewaz Bhuiyan	Numerical Simulation of the Rivet of Self-Piercing Riveting Based on Structural Optimization	newaz.mpe@aust.edu	Physical
47	Md Mozammel Hossain Talukder, Md Shariful Islam and Md Arifuzzaman	Effect of Cow Bone Micro-particle Reinforcement on the Mechanical Properties of Epoxy Based Composite	msislam@me.kuet.ac.bd	Virtual
52	Ahsanul Islam, Chinmoy Biswas, Shahinur Hasnat Rahat, Md Shariful Islam and Md Arifuzzaman	Investigation on Mechanical and Fire Properties of Non-woven Jute and Polyester Hybrid Fiber Reinforced Epoxy Composites	arif48@me.kuet.ac.bd	Virtual
54	Shahadot Hossain, Taslim Ben Alam Protik, Md Shariful Islam and Md Arifuzzaman	Experimental Investigation of the Tensile and Bending Properties of Short Glass Fiber Reinforced Composite	msislam@me.kuet.ac.bd	Physical
65	Md Abdul Aziz, Saurabh Awasthi and SeungYeon Kang	Investigation of Fabrication of Li-ion Battery Electrodes using Femtosecond Laser Induced Forward Transfer: Parameter Optimization and Material Transfer Strategies	md.abdul_aziz@ucornn.edu	Physical



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Mode: Hybrid (Physical and Virtual)**

**May 30, 2024: Technical Session – 4: (Room 11005)**

**Time: 10:00 AM – 11:30 AM**

<b>Session Chair:</b> Prof. Dr. Mohammad Ariful Islam Department of Mechanical Engineering KUET	<b>Session Co-Chair:</b> Dr. Md. Rashed Mia Assistant Professor, Dept. of ME DUET, Gazipur
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Zoom Link: e10@duet.ac.bd

<https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZz09&omn=97934161648>

Meeting ID: 850 410 3243; Password: ICMMPE

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
57	Md. Salman Anik and Mohammad Sultan Mahmud	Performance Analysis of VAWT with H-Darrieus Rotor using gurney flap	sultankuet01@gmail.com	Physical
66	Sayed Tanvir Ahmed, Tripta Sarker and Ratul Das	Thermohydraulic Performance Optimization of Solar Air Heater via Tailored Invert L Shaped Rib: A CFD Investigation	sytanvir.mech@gmail.com	Virtual
75	Tripta Sarker, Ratul Das, Sayed Tanvir Ahmed and Mostafa Rafid	Numerical Investigation of the Hydraulic and Thermal Performance of Plain Fin Compact Heat Exchangers with Modified Flat Tubes	rafid-mee@sust.edu	Virtual
123	Md. Sanowar Hossain, Fairuz Wasima and Md. Sharul Shawon	Green Hydrogen from Food Waste: Evaluating the Techno-Economic Viability and Environmental Impact in Rajshahi City		Virtual
130	Johirol Islam, Asif Kabir, Rajib Ahmed, Md. Saiful Islam, Tonuka Tasnuva and M. Mahbubur Rahman	Estimation of Air Pollutants from Different Divisional City Locations in Bangladesh: A Graphical and Statistical Case Analysis	asifkabir121@gmail.com	Physical





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Mode: Hybrid (Physical and Virtual)**

**May 30, 2024: Technical Session – 5: (Room 11001)**

**Time: 11:30 AM – 1.00 PM**

<p style="text-align: center;"><b>Session Chair:</b> Professor Dr. Mohammad Zakaria Head, Dept. of TE, DUET, Gazipur</p>	<p style="text-align: center;"><b>Session Co-Chair:</b> Dr. Mohammad Islam Miah Associate Professor Department of Petroleum and Mining Engineering CUET</p>
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Zoom Link: e7@duet.ac.bd

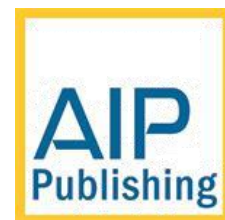
<https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&omn=94960266928>

Meeting ID: 807 641 1234; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
73	Asif Ahmed Chowdhory, Tamanna Ali Angkon, Md Sazzadul Haque and Tahir Mahmud	Experimental Performance Investigation of Solar Water Distillation System	asifahmed1305@gmail.com	Physical
94	Abdullah Bin Asif, Rounak Jarín Turna and Pabítro Prosad Mondal	A Review on Recent Advancements in Lead- Free Ceramic/Polymer Nanocomposites for High Energy Storage Applications	ab.asif3810@gmail.com	Virtual
109	Asish Kumar Akash, Md. Shariful Islam, Md. Ashraf Islam, Md. Radwanul Kabir and Mhia Md. Zaglul Shahadat	Enhancing Wind Turbine Performance through Rotor-Integrated Flywheel Technology: A Comprehensive Investigation and Optimization Study	shariful05031@gmail.com	Physical
112	Aniruddha Roy Protya, MD. Zahidul Islam, Md Ashfak Hossain, Md. Shariful Islam and Mohammad Ariful Islam	A Study on the Effect of Dust on the Output of Rooftop solar PV in the Academic Building of KUET	protya99@gmail.com	Physical
113	Md. Bakhtierkhalzi, Md. Imrul Kowfi, Md. Al Emon, Kh. Shahriar Asnaf and Md. Tarikul Islam	3E Analysis of Stepped Basin Pyramid Solar Still: Experimental Evaluation	khilzi@me.ruet.ac.bd	Physical



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**Venue: DUET, Gazipur, Bangladesh  
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**May 30, 2024: Technical Session – 5: (Room 11003)**

**Time: 11:30 AM – 1.00 PM**

<b>Session Chair:</b> Professor Dr. Md. Abdus Shahid Dept. of TE, DUET, Gazipur	<b>Session Co-Chair:</b> Dr. Biplov Kumar Roy Associate Professor, Dept. of ME DUET, Gazipur
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Zoom Link: e9@duet.ac.bd

<https://bdren.zoom.us/j/2097032103?pwd=VWdGMjNUOEZvWTNWen1lcUY0ekFRdz09&omn=96579010000>

Meeting ID: 209 703 2103; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
68	Hasibur Rahaman Santo, Md Mostoba Rafid, Sabbir Islam Showrov, Shama Abdullah Moshur and Md Elias Uddin	Development and Characterization of rGO Reinforced Epoxy Nanocomposite for Multifunctional Leather Finishing Agent	eliasuddin@le.kuet.ac.bd	Virtual
69	Kazi Mamunur Rahman Rifat, Md. Rasel Islam, Md. Farhan Jakib and S. M. Nasim Rokon	Photocatalytic Efficiency of Using Sphagneticola trilobata Leaves derived TiO <sub>2</sub> Nanoparticles: Green Synthesis, Characterization and Photocatalytic Activity	mamunurrahman987@gmail.com	Physical
70	Kazi Mamunur Rahman Rifat, Safayet Hossen, Arian Rifat Dhruho and S. M. Nasim Rokon	Green Synthesis of ZrO <sub>2</sub> Nanoparticles Using Sugarcane Extract and Its Photocatalytic Behavior	mamunurrahman987@gmail.com	Physical
74	G M Md Emtiazur Rahman, Ashikur Rahman Sany, Ammita Haider Ahon and Durjoy Kumar Paul	Brick Kilns in Bangladesh: A Source of Air Pollution and Health Hazards	durjoy.paul@me.ruet.ac.bd	Virtual
85	Md Abdur Rahman, Md Tanzil Hossain and Md Nurul Absar Chowdhury	Enhancing Surface Quality of 904L Stainless Steel Through Precision Grinding: A Comprehensive Investigation of Surface Roughness	abdur.siam2001@gmail.com	Physical



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**Venue: DUET, Gazipur, Bangladesh  
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**May 30, 2024: Technical Session – 5: (Room 11005)**

**Time: 11:30 AM – 1.00 PM**

<b>Session Chair:</b> Professor Dr. Himangshu Bhowmik Head, Dept. of ME, DUET, Gazipur	<b>Session Co-Chair:</b> Professor Dr. Dr. Md. Mostafizur Rahman, Head, Dept. of ChE and FE, DUET, Gazipur
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Zoom Link: e10@duet.ac.bd

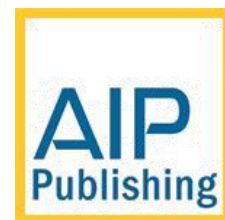
<https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZZ09&omn=97934161648>

Meeting ID: 850 410 3243; Password: ICMMPE

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
83	Mushfiqur Rahman Shihab and Mohammad Ilias Inam	The effects of Multiple Plasma Actuators on Film Cooling Performance: A Numerical Approach	shihab.me18@gmail.com	Physical
89	R. M. Ziaur, M. H. Surovy, M. N. Hudha, Md. Al-Amin, Romana Sultana and M. M. Rahman	Magnetohydrodynamics Mixed Convective Heat Transfer in a Prismatic Enclosure Filled with Al <sub>2</sub> O <sub>3</sub> -Cu/water Hybrid Nanofluid	ziaur.math.buet@gmail.com	Physical
105	Nahyan Ahnaf Pratik, Hasan Ali I, Nafisa Lubaba, Fahim Tanvir, Adrita Anwar and Md. Javed Alam	Thermal Performance Enhancement of Flat Plate Solar Collectors Formed by Using Rectangular Reserve Chamber	hasan@ese.kuet.ac.bd	Physical
110	Md. Shariful Islam, Md. Radwanul Kabir and Mohammad Ariful Islam	Numerical Analysis of Porous Twisted Tape Influence on Heat Transfer Characteristics in Double Tube Heat Exchanger	shariful05031@gmail.com	Physical
132	Md. Ariful Alam and Md. Rafiquzzaman	Implications of Opportunistic Maintenance Optimization on Multi-Component Manufacturing System in Bangladesh	alam1811556@stud.kuet.ac.bd	Physical



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**May 30, 2024: Technical Session – 6: (Room 11001)**

**Time: 2:00 PM – 3.40 PM**

<p><b>Session Chair:</b> Professor Dr. Hasan Mohammad Mostofa Afroz, ME, Head, Dept. of MME, DUET, Gazipur</p>	<p><b>Session Co-Chair:</b> Prof. Dr. Muhammad Abdur Rashid Dept. of TE, DUET, Gazipur</p>
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Zoom Link: e7@duet.ac.bd

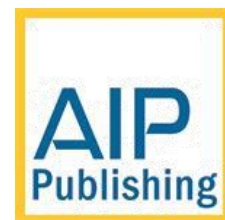
<https://bdren.zoom.us/j/8076411234?pwd=b0RxS29mdStKZEFBTjdLbGxnZDgwZz09&omn=94960266928>

Meeting ID: 807 641 1234; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
79	Tasnuva Jahan Nuva, Sajal Chandra Banik, Nahid Hasan and S. M. Fahim Faisal	Detecting Industrial Product Defects: An Unsupervised Machine Learning Approach for Anomaly Detection	tasnuvajahan@cuet.ac.bd	Virtual
104	Md Hasibul Hassan, Pabitro Prosad Mondal and Md Tasdikul Islam	A Review on Recent Advancements in Polymer-Ceramics Composite Solid-State Electrolytes for Li-ion Batteries	hblhasibul@gmail.com	Physical
117	Nusrat Jahan Kameli, Kazi Farhana Naz, Fayaz Sikder Jeon and Mim Mashrur Ahmed	A Comprehensive Review on Perovskite Solar Cells: Prospects and Challenges	mashrur@me.ruet.ac.bd	Physical
131	Animesh Sarkar, Md. Sumon Miah, Md. Masum, Mahabub Alam and Mohammad Shaiful Alam Amin	Nutritional Enhancement and Acrylamide Formation: Impact of Chia Seed (Salvia hispanica) Flour Levels in Wheat Biscuits	animesh-fet@sust.edu	Physical
135	Abdullah Wasif Rafin, Md. Tanzid Hasan and Pabitro Prosad Mondal	Synthesis and Characterization of Photocatalytic Bismuth Titanate reinforced PMMA polymer nanocomposites.	wasifabdullah23@gmail.com	Physical
137	Anamul Hoque Bhuiyan, Satoshi Irie, Jae-Ho Kim, Md. Hazrat Ali, Md. Mahadi Hasan and Koji Nakane	Formation of TiO <sub>2</sub> nanotubes by thermal decomposition of electrospun poly(vinyl butyral)-titanium alkoxide hybrid nanofiber template	anamulhb@duet.ac.bd	Physical



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**Venue: DUET, Gazipur, Bangladesh  
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**May 30, 2024: Technical Session – 6: (Room 11003)**

**Time: 2:00 PM – 3.40 PM**

<b>Session Chair:</b> Prof. Dr. Md. Sanaul Rabbi Mechanical Engineering Department CUET	<b>Session Co-Chair:</b> Professor Dr. Forkan Sarker Dept. of TE, DUET, Gazipur
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Zoom Link: e9@duet.ac.bd

<https://bdren.zoom.us/j/2097032103?pwd=VWdGMjNUOEZvWtNWenllcUY0ekFRdz09&omn=96579010000>

Meeting ID: 209 703 2103; Password: icmmpe

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
97	Al Ahasun Atique, Sourav Saha, Pabitro Prosad Mondal and Shaikh Shahariar Hossain Sady	Perovskite and Polymer Composites for High-Performance Supercapacitor Electrodes: A Review	alahasunatique@gmail.com	Virtual
98	Mahathir Muntasir, S. M. Enamul Hoque Yasin and Anik Biswas	Investigation of Mechanical Properties of Jute, Banana & Coir Fiber Reinforced Composite in Helmet Application	m.muntasir5082@gmail.com	Virtual
100	Akash Baral, Md Jahid Hasan, Md Shariful Islam and Md Arifuzzaman	Prediction of Mechanical Properties of Nano-particle Filled Glass Fiber Reinforced Composites Using Machine Learning Algorithms	arif48@me.kuet.ac.bd	Virtual
102	Pabitro Prosad Mondal, Murad Bin Hossain, Monirul Islam Semanto and Md. Mostafa Kamal	Physical, Mechanical and Water Absorption Behavior of Al <sub>2</sub> O <sub>3</sub> Particulate Incorporated Banana and Coir Fiber Reinforced Epoxy Hybrid Composite	pabitroprosad2014@gmail.com	Virtual
111	Redwanul Islam, Muhammad Muinul Islam, Suprio Shantanu Saha and Reana Raen	Feasibility Analysis of ZnO Nanoparticle Coated Fabric in Common Surgical Practices	mmi@bme.kuet.ac.bd	Virtual



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**May 30, 2024: Technical Session – 6: (Room 11005)**

**Time: 2:00 PM – 3.40PM**

<p><b>Session Chair:</b> Prof. Dr. Mohammad Sultan Mahmud Department of Mechanical Engineering KUET</p>	<p><b>Session Co-Chair:</b> Prof. Dr. Shafiqul Islam Dept. of TE, DUET, Gazipur</p>
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Zoom Link: e10@duet.ac.bd

<https://bdren.zoom.us/j/8504103243?pwd=eDVteCt4QTFtOWdRVjVTT2JoVmJNZz09&omn=97934161648>

Meeting ID: 850 410 3243; Password: ICMMPE

Paper ID	Author	Paper Title	Presenting Author	Mode (Physical / Virtual)
77	Rahul Biswas, A.S.M. Sayem, Mahabub Alam and Mohammad Afzal Hossain	Enhancing the Quality of Dried Mango Slices: Osmotic and Ultrasound Pretreatments as Effective Preservation Techniques	<b>mahossain- fet@sust.edu</b>	<b>Physical</b>
116	M. N. Hudha, R. M. Ziaur, Md. Al-Amin1, S. H. Afrin, T. Bairagi, U. Habiba and M. M. Rahman	MHD Mixed Convective Flow of Al <sub>2</sub> O <sub>3</sub> - CNT/Water Filled Square Cavity Having a Rotating Cylinder and Rectangular Hollow Fins	<b>nhudha82@gmail.c om</b>	<b>Physical</b>
119	Md Fayaz Sikder Jeon, Md. Shezan Mahmud, Nusrat Jahan Kameli and Mim Mashrur Ahmed	In-service lubricant analysis for condition monitoring of oil-wetted machineries: A state- of-the-art review	<b>mashrur@me.ruet. ac.bd</b>	<b>Physical</b>
120	K. Arsh and B. C. Mondal	Exploring the potential of Water Treatment Sludge (WTS) as cementitious materials and application in cement mortar as a partial replacement of cement	<b>kandilaarsh@gmail .com</b>	<b>Physical</b>
126	Zarin Rahman Tapti, Md. Abdul Hasib, Arup Kumar Debnath and Rizuanul Arefin Emon	Influence of Elevated Temperatures on the Mechanical Properties of Bagasse Fiber- Reinforced Geopolymer Composites (old: 67)	<b>arefinemon12@gm ail.com</b>	<b>Physical</b>
127	Abid Hossain and Mohammad Ferdows	Exploring Magnetorheological Fluid Behavior under Shear Flow via Dissipative Particle Dynamics Simulations Augmented with	<b>abidhossain- 2018625493@amat h.du.ac.bd</b>	<b>Physical</b>





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		Ferromagnetic Interactions: Advancements through Dynamic Programming (old 71)		
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