



8th International Conference on
Mechanical, Industrial and Energy Engineering



Khulna, Bangladesh



02-04 January, 2025



Organized by
Faculty of Mechanical Engineering
Khulna University of Engineering & Technology (KUET)

Conference Program

Date: January 02, 2025

Time	Program
9:30 AM-10:30 AM	Inaugural Ceremony Venue: KUET Auditorium Zoom Link: https://bdren.zoom.us/j/95367450162 Meeting ID: 953 6745 0162
	9:30 AM Arrival of Guests
	9:35 AM Guests take seats
	9:40 AM Recitation from the Holy Al-Quran
	9:45 AM Welcome Speech by Prof. Dr. Md. Shahidul Islam Chair, Organizing Committee
	9:50 AM Speech by Prof. Dr. A. N. M. Mizanur Rahman Chair, Technical Committee
	9:55 AM Speech by Prof. Dr. Mohammad Sultan Mahmud Secretary, Technical Committee
	10:00 AM Speech by Chief Guest Prof. Ahsan Choudhuri, Ph.D. Founder of UTEP-Aerospace Center, University of Texas at El Paso, TX, USA
	10:15 AM Speech by Chief Patron Prof. Dr. Mohammad Mashud Vice-Chancellor, KUET
	10:30 AM Vote of Thanks by Prof. Dr. Mohammad Ilias Inam Secretary, Organizing Committee
10:30 AM-11:00 AM	Refreshment and Communication Break
	Keynote Session I Chair: Prof. Dr. Md. Kutub Uddin (ME, KUET) Co-Chair: Dr. Md. Samsul Arefin (LE, KUET) Vanue: ME 201 Zoom Link: https://bdren.zoom.us/j/95367450162 Meeting ID: 953 6745 0162
11:00 AM-11:40 AM	Title: Smart Robotics for Personal Care: Enabling a New Era Prof. Dr. Mohammad Habib Rahman <i>Professor and Chair, Department of Mechanical Engineering</i> <i>University of Wisconsin-Milwaukee, USA</i>
11:40 AM-12:20 PM	Title: Fire Safety of Building Façade Prof. Dr. Khalid Moinuddin <i>Executive Director, Institute for Sustainable Industries and Liveable Cities</i> <i>Victoria University, Melbourne, Australia</i>
12:20 PM - 1:00 PM	Title: Impedance Characteristics of User-Friendly Wearable Rehabilitation Robot’s Movement Prof. Dr. Md Mozasser Rahman <i>Visiting Professor</i> <i>Eastern Michigan University, USA</i>
1:00 PM-2:00 PM	Lunch Break



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2:00 PM-3:30 PM	Parallel Technical Sessions
	A1: CFD I Paper ID: 93, 111, 160, 170, 176, 180 Chair: Prof. Dr. Khandkar Aftab Hossain (ME, KUET) Co-Chair: Mr. Rubiat Mustak (ME, KUET) Venue: ME 201
	B1: Composite & Smart Materials I Paper ID: 06, 29, 33, 38, 96, 115, 134, 135 Chair: Prof. Dr. Abdul Hasib (ME, KUET) Co-Chair: Mr. Arup Kumar Debnath (ME, KUET) Venue: ME 308
	C1: Energy Engineering I Paper ID: 60, 63, 74, 88, 90, 91, 172 Chair: Prof. Dr. A.N.M. Mizanur Rahman (ME, KUET) Co-Chair: Dr. Md. Shameem Hossain (ESE, KUET) Venue: ME 310
	D1: Textile & Chemical Engineering I Paper ID: 35, 98, 101, 62, 70, 106, 107, 138 Chair: Prof. Dr. Md. Abdus Shahid (TE, DUET) Co-Chair: Dr. Md. Ismail Hossain (TE, KUET) Venue: ME 401
3:30 PM -3:45 PM	E1 : Online I Paper ID: 10, 42, 49, 05, 19, 27, 86, 30 Chair: Prof. Dr. Md. Bodiul Islam (GCE, RUET) Co-Chair: Mr. Fahim Islam Anik (ME, KUET) Venue: ME 207 Zoom Link: https://bdren.zoom.us/j/95367450162 Meeting ID: 953 6745 0162
	Tea and Communication Break
	Parallel Technical Sessions
	A2: Energy Engineering II Paper ID: 102, 110, 114, 116, 119, 125, 130 Chair: Prof. Dr. Md. Hasan Ali (ESE, KUET) Co-Chair: Md. Mahmudul Alam (ESE, KUET) Venue: ME 201
	B2: Leather Engineering Paper ID: 04, 82, 121, 127, 183, 184 Chair: Prof. Dr. Md. Abul Hashem (LE, KUET) Co-Chair: Dr. Md. Elias Uddin (LE, KUET) Venue: ME 308
3:45 PM -5:15 PM	C2: Thermofluid I Paper ID: 36, 40, 59, 79, 95, 108, 139, 151 Chair: Prof. Dr. Abul Mukid Mohammad Mukaddes (IPE, SUST) Co-Chair: Dr. Md. Mahbubur Rahman (ME, KUET) Venue: ME 310
	D2: CFD II Paper ID: 12, 21, 22, 83, 94, 103, 114, 128 Chair: Prof. Dr. Abdullah Al-Faruk (ME, KUET) Co-Chair: Ms. Oishi Kanta (ME, KUET) Venue: ME 401
	E2 : Online II (Composite & Smart Materials) Paper ID: 15, 61, 109, 142, 147, 149 Chair: Prof. Dr. Md. Sanaul Rabbi (ME, CUET) Co-Chair: Mr. Raju Ahammad (ME, KUET) Venue: ME 207 Zoom Link: https://bdren.zoom.us/j/95367450162 Meeting ID: 953 6745 0162



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Date: January 03, 2025

Time	Program
	Keynote Session II Chair: Prof. Dr. Md Mozasser Rahman (<i>Eastern Michigan University, USA</i>) Co-Chair: Dr. Md. Abdulla-Al-Mamun (ILET, DU) Vaneue: ME 201 Zoom Link: https://bdren.zoom.us/j/97183697333 Meeting ID: 971 8369 7333
9:00 AM-9:40 AM	Title: Soft actuators and sensors using smart soft materials Prof. Dr. Kazuto Takashima <i>Associate Professor, Department of Biological Functions Engineering Kyushu Institute of Technology, JAPAN</i>
9:40 AM-10:20 AM	Title: Development of Refrigeration and Air-Conditioning Technologies for Use of Next-Generation Refrigerants in Japan Prof. Dr. Akio Miyara <i>Professor, Department of Mechanical Engineering Saga University, JAPAN</i>
10:20 AM-11:00 AM	Title: Condensation in High-speed Flow Fields Prof. Dr. Miah Md Ashraful Alam <i>Professor, Department of Mechanical Engineering Osaka Sangyo University, JAPAN</i>
11:00 AM-11:30 AM	Refreshment and Communication Break
11:30 AM-12:45 PM	Parallel Technical Sessions
	A3: Composite & Smart Materials II Paper ID: 54, 128, 157, 159, 166, 168, 182 Chair: Prof. Dr. Md. Ashraful Islam (ME, KUET) Co-Chair: Dr. Mst. Nazma Sultana (IEM, KUET) Venue: ME 201
	B3: Industrial automation & Robotics I Paper ID: 07, 26, 67, 117, 133, 137, Chair: Prof. Dr. Md. Rafiquzzaman (IEM, KUET) Co-Chair: Dr. Md. Saiful Islam (IEM, KUET) Venue: ME 308
	C3: Thermofluid II Paper ID: 46, 57, 99, 154, 156, 161 Chair: Prof. Dr. Md. Mahbubul Alam (ME, CUET) Co-Chair: Mr. Ridwan Mustofa (IEM, KUET) Venue: ME 310
	E3: Online III (Energy Engineering) Paper ID: 14, 16, 53, 73, 87, 112, 126 Chair: Prof. Dr. Dipayan Mondal (ME, KUET) Co-Chair: Mr. Karib Hassan Khan (ME, KUET) Venue: ME 207 Zoom Link: https://bdren.zoom.us/j/97183697333 Meeting ID: 971 8369 7333
12:45 PM-2:30 PM	Lunch Break / Prayer Break



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2:30 PM -3:45 PM	Parallel Technical Sessions
	A4: Energy Engineering III Paper ID: 92, 144, 145, 146, 150, 169, 175 Chair: Prof. Dr. Md. Anowar Hossain (ME, DUET) Co-Chair: Mr. Rajan Kumar Raha (LE, KUET) Venue: ME 201
	B4: Industrial Automation & Robotics II Paper ID: 32, 81, 141, 158 167, 181 Chair: Prof. Dr. Md. Helal-An-Nahiyen (ME, KUET) Co-Chair: Mr. Priyo Nath Roy (MTE, KUET) Venue: ME 308
	C4: Related Engineering Paper ID: 23, 50, 77, 120, 143, 174, 185 Chair: Prof. Md. Golam Kader (ME, KUET) Co-Chair: Dr. Asief Javed (MTE, KUET) Venue: ME 310
	E4: Online IV (Composite & Smart Materials) Paper ID: 20, 31, 41, 51, 52, 140 Chair: Prof. Dr. Md. Arifuzzaman (ME, KUET) Co-Chair: Md. Shohanur Rahman (MTE, KUET) Venue: ME 207 Zoom Link: https://bdren.zoom.us/j/97183697333 Meeting ID: 971 8369 7333
3:45 PM -4:00 PM	Tea and Communication Break
4:00 PM -5:15 PM	Parallel Technical Sessions
	A5: Online V Paper ID: 17, 129, 155, 177, 178, 179, 186 Chair: Prof. Dr. Mohammad Abdul Jalil (TE, KUET) Co-Chair: Dr. Md. Shakhawat Hossain (TE, KUET) Venue: ME 201 Zoom Link: https://bdren.zoom.us/j/97183697333 Meeting ID: 971 8369 7333
	B5: Energy Engineering IV Paper ID: 03, 13, 18, 43, 148, 152, 162, 131 Chair: Prof. Dr. Kazi Mostafijur Rahman (ME, KUET) Co-Chair: Dr. Md. Mahmudul Hassan Mondol (ChE, KUET) Venue: ME 308
	E5: Online VI (CFD) Paper ID: 09, 58, 72, 104, 118, 132, 136, 165 Chair: Prof. Dr. Miah Md Ashraful Alam (Osaka Sangyo University, JAPAN) Co-Chair: Md. Mohiuddin (ME, KUET) Venue: ME 207 Zoom Link: https://bdren.zoom.us/j/7288269634?omn=94671557677
7:00 PM - 9:00 PM	Dinner & Closing Ceremony Venue: Guest House

Date: January 04, 2025

Time	Program
9:30 AM-4:30 PM	Local Tour (On Request)