ONLINE SESSION

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DAY 1 26 AUGUST 2025 TUESDAY



Day 1 (Tuesday, 26 August 2025) 8.00 am - 1.00 pm

	Day 1 (Tuesday, 26 August 2025) 8.00 am - 1.00 pm		
	Time	Tentative	
	8.00 - 9.00 am	Registration of ICMAE '25	
	9.00 - 10.00 am	Opening Ceremony of the IIUM Engineering Congress 2025 Welcoming Remarks by The Rector and The Chairman of IEC'25 Officiating Speech and Launching Ceremony by Chairman of Malaysian Qualifications Agency Venue: Auditorium A	
	10.15 - 11.00 am	IEC'25 Keynote Speaker Session Venue: Auditorium A	
	11.00 - 11.10 am	Welcoming Remarks by the Chairman of ICMAE 2025 Venue: E2-2-1	
	11.20 - 12.00 pm	ICMAE '25 Keynote Speaker Session 1 "Development of CFD methodology for multiphase flow in the fields of petroleum engineering" Professor Dr. Mohammad Jalal Ahhamad Venue: E2-2-1	
	Parallel Technical Session 1		
	Time	Chairperson: Assoc. Prof. Dr. Mohd Lukman Inche Ibrahim Venue: E2-2-1 Category: Modern Physics (Theoretical and Experimental)	Chairperson: Assoc. Prof. Dr. Jamal Daoud Venue: E2-2-2 Category: Probability and Mathematical Statistics
	12.00 - 12.20 pm	Paper ID: 44 Analysis of Stationary Solutions and Stability of Solitons in the Discrete Nonlinear Schrödinger Equation (DNLS) with Variations in Trapping Potential Strength E. Safitri, T. Usman, M. Ramli, S.	Paper ID: 26 A Comparative Study of Bayesian Variable Selection with Missing Data: BAS and BART for Healthcare Data Analysis Azman Nads and Daniel Andrade

Munzir, M Ikhwan, and H. A. Mardi



12.20 - 12.40 pm	Paper ID: 3 Resonance-Eigenvalue Relations for the Lattice Two-Particle Schrödinger Operators Mukhayyo Akhmadova, Shakhnoza Akhmatova and Mukammal Azizova	Paper ID: 5 Commuting Pattern and Challenges Among Students in Dhaka City: An Analysis for Sustainable Urban Mobility Salman Sayeed, Riazul Zannah, S M Nafim Niloy, Kayjer Islam, S.M.Nahid Hassan and Mahfuza Khatun
12.40 - 1.00 pm	Paper ID: 11 The Number and Location of Eigenvalues of Two Particle Schrödinger Operators on 1D Lattices Shakhobiddin Khamidov and Utkir Ibrogimov	Paper ID: 38 A Proposed Combination of Models for Short Multivariate Time Series Nowcasting Hernan Pantolla, Alex Gonzaga
1.00 - 1.20 pm	Paper ID: 33 Moment of inertia of deformed nuclei using the Cranking model and band mixing approaches Moh'd Abu El Sheik, Abdurahim A. Okhunov, and Pazlitdin Usmanov	Paper ID: 25 An Empirical Analysis of LSTM Network for Modelling the Dynamics of Paddy Production Azizah Arfian, Siti Mariam Norrulashikin, Mohammad Izat Emir Zulkifly
1.20 - 2.30 pm	Lunch	

Parallel Technical Session 2

	Time	Chairperson: Dr. Musilliu Farayola Venue: E2-2-1 Category: Differential Equations, Algebra and Analysis	Chairperson: Dr. S.M. Afzal Hoq Venue: E2-2-2 Category: Mathematical Modelling, Numerical Methods and Simulation
	2.40 - 3.00 pm	Paper ID: 45 A Low-Cost IoT System for Real- Time Monitoring and Predictive Modeling in Perishable Food Logistics ICT Wahju Sediono and Siti Aliaa binti Ibrahim	Paper ID: 32 Efficiency of Internal Phosphorus Recycling Shapes the Lake Eutrophication Dynamics Chai Jian Tay, Mohd Hafiz Mohd and Su Yean Teh
	3.00 - 3.20 pm	Paper ID: 47 On the spectral expansions of distributions on compact Reamanian manifold Abdumalik Rakhimov, Erkin Saydamatov and Shuhrat Sheraliev	Paper ID: 46 Application of CFD for the Reduction of Health Risk and Disasters: Simulation of Cerebral Aneurysms in Brain Stroke K. E. Hoque, S. M. A. Hoq, M. M. Billah, M.S. Alam, Kartini Ahmad, M. Aziz Raihan

3.20 - 3.40 pm	Paper ID: 29 A Critical Study on Applications of Differential Equations in Physics: Maxwell's Equation and Einstein's Equation to Black Hole Mechanics Koushik Biswas Arko, S.M.Afzal Hoq, Tamim Hasan Apurbo, Sadi Mohammad Meraj, Abida Afrin, Md. Mortuza Ahmmed and Md. Fayz-Al-Asad,	Paper ID: 36 Transient MHD Flow of CNT Nanofluid with Thermal Radiation in a Square Cavity A. K. Azad, Md. Jalil Miah, Md. Jahid Hasan, R. Hossain, M. M. Rahman
3.40 - 4.00 pm	Paper ID: 15 Elliptic Variational Inequalities on Weighted Sobolev Spaces Kulieva G., Kuliev K., and Tilavov R.	Paper ID: 09 Physics-Informed Neural Network Approach for Solving Non- Newtonian Casson Fluid Flow Over a Stretching Sheet with Thermal Radiation and Electromagnetic Effects M.M.H. Imran, Muhammad Sajjad Hossain, M. S. I. Mallik, S. M. Afzal Hoq, ATM. M. Rahman, Shifat Ahmed, S. Shifat Ahmed and M. Aziz Raihan

End of Day 1

DAY 2 27 AUGUST 2025 WEDNESDAY



	Day 2 (27 Aug 25) Parallel Technical Session 3		
9.00 - 9.40 am	ICMAE '25 Keynote Speaker Session 2 "The properties of even-even deformed nuclei" Speaker: Professor Dr Usmanov Pazlitdin Nuritdinovich Venue: E2-2-1		
Time	Chairperson: Dr. Musilliu Farayola Venue: E2-2-1 Category: Differential Equations, Algebra and Analysis	Chairperson: Dr. S.M. Afzal Hoq Venue: E2-2-2 Category: Mathematical Modelling, Numerical Methods and Simulation	
9.40 - 10.00 am	Paper ID: 27 Some Open Subsets of the Variety of n-Dimensional Algebras: Classifications and Automorphisms U. Bekbaev	Paper ID: 37 Decorrelation Properties of Maximal Overlap Wavelet Coefficients of Generalized Oscillatory Long-memory process Alex Gonzaga	
10.00 - 10.20 am	Paper ID: 30 On complete classification of two-dimensional commutative Frobenius algebras D.Asrorov, U.Bekbaev, I.Rakhimov	Paper ID: 39 An Inviscid Fluid Motion Between Two Fixed Cylinders Mohammad Jalal Ahammad, Monowar Hossain and Anwar Ahmad Siddiquee	

Parallel Technical Session 3		
10.20 - 10.40 am	Paper ID: 10 Advancing Type-2 Neutrosophic Bézier Surface Modeling: Properties and Applications Siti Nur Idara Rosli and Mohammad Izat Emir Zulkifly	Paper ID: 40 CFD Analysis of Cooling Systems of Porous Type Nazmul Kader Chowdhury, Afsar Uddin, Hamed Shahryar and Mohammad Jalal Ahammad
10.40 - 11.00 am	Paper ID: 18 A Neutrosophic B-spline Surface for Interpolating the Kenyir Lakebed using Bathymetric Data Siti Nur Idara Rosli and Mohammad Izat Emir Zulkifly	Paperp ID: 31 A Uniform Streaming Motion Past Two Spheres with stick- slip Boundary Conditions Mohammad Jalal Ahammad, Md. Kamran Hussain Chowdhury and Monowar Hossain
11.00 - 11.20 am	Paper ID: 35 Implementing Interval-valued Fuzzy Set Theory by Interpolating the Bézier Surface Model Nor Ashikin Sahrom, Mohammad Izat Emir Zulkifly, and Siti Nur Idara Rosli	Paper ID: 19 Modeling the Effect of Temperature on the Performance of the Silicon Bifacial Solar Cells R. Aliev, M. Komilov, S. Aliev, N. Abdurazakov, R. Rahmatullayev

	Parallel Technical Session 3		
11.20 - 11.40 am	Paper ID: 24 Classification of all Z-Algebra Structures on Z² U. Bekbaev	Paper ID: 42 Impact of Small Leaks on Turbulent Airflow in Pipelines: A CFD Study Ramiz Mahmmud, Tanwy Datta, Dr. Mohammad Jalal Ahammad	
11.40 - 12.00 pm		Paper ID: 43 A Numerical Investigation of the Effect of Fluid Flow around Four Bridge Piers in Line with Different Shapes Anwar Ahmad Siddiquee, Bibi Asma and Mohammad Jalal Ahammad	