INTERNATIONAL CONFERENCE [SUSTAINABILITY IN DESIGN, ENGINEERING AND ARCHITECTURE**]** **VENUE: ROOM NO. ML 7**

31 OCTOBER 2026 [Saturday]

TECHNICAL SESSION II (2:30-4:00 pm)- MECHANICAL ENGINEERING

SESSION CHAIR: Prof. Mohammed Ali; SESSION CO-CHAIR: Prof. Mohammad Faizan

S. No.	TRACK ID	TOPIC AND AUTHOR	
1	SDEA-2026-0035	**Reliable and Explainable Machine Learning for Sustainable Manufacturing Energy Prediction using Uncertainty Quantification** Anant Dev Gupta*, Aayush Kumar Sharma*, Khushi Sharma**, Faisal Talib*	
2	SDEA-2026-0037	**A Bibliometric Analysis of Industry 4.0 Implementation in SMEs: Current Trends and Future Research Directions** Jamal Ahmad, Dilip Kushwaha, Faisal Talib	
3	SDEA-2026-0041	**Development of DeepKey Based Precision Key Identification System Using Artificial Neural Network** Yasir Iqbal and Mohammed Nasir Khan	
4	SDEA-2026-0050	**Infill Topology Meets Wall Thickness: Compressive Performance of FDM-Printed PLA Cellular Structures for Lightweight Structural Applications** Mohammad Haris	
5	SDEA-2026-0053	**Modelling and Optimization of Hybrid Photovoltaic Thermal Solar Collectors Using Multi-Criteria Decision Approach** Suhail Ahmad Khan*, Kashif Quamar**	
6	SDEA-2026-0073	**Structural Performance Evaluation of Laminated Sugarcane Bassage Fiber Reinforced Composite Beams** Mirza Shariq Beg*, M. Yaqoob Yasin**, Azhar Jamil**	
7	SDEA-2026-0074	**Waste Heat Recovery from Domestic Refrigerator for Water Heating and Food Warming Applications** Hamid Raza*, Mohd Saquib Shamim*, Shaan Mohammad*, Mohammad Altamash*, Wasifullah Khan**	
8	SDEA-2026-0078	**Effect of Preheating on Weld Quality in Hybrid Friction Stir Welding of AA6061 Aluminum Alloy** Akram Raza	
9	SDEA-2026-0079	**Energy Harvesting from Flow-Induced Vibrations of Tandem Square Cylinders with Different Corner Radii** Faisal Ahmed	
10	SDEA-2026-0083	**Finite Element Validation and Comparative Analysis of Auxetic Structures under Tensile Loading** Shahdeen Hasan*, Hanzala Jamil*, Md Salman Arshad*, Saransh Bhardwaj**,Dr. Mohammad Talha**	
11	SDEA-2026-0085	**Cybersecurity in Industry 4.0 for Smart and Sustainable Manufacturing** Mohammad Minhaj, Faisal Talib	