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

31 OCTOBER 2026 [Saturday]

TECHNICAL SESSION III (4:00-5:30 pm)- MECHANICAL ENGINEERING

SESSION CHAIR: Prof. Abid Ali Khan; SESSION CO-CHAIR: Prof. Mubashshir Ahmad Ansari

S. No.	TRACK ID	TOPIC AND AUTHOR	
1	SDEA-2026-0089	**Development of a Low-Cost Solar-Assisted Food Dehydrator for Sustainable Food Preservation** Shahnawaz Mohsin, Keshav Bhardwaj, Harshvardhan	
2	SDEA-2026-0090	**Mixing and Flow Analysis of Non-Newtonian Fluid in Simple And Vortex T-Micromixer** Md Toukeer Alam, Mubashshir Ahmad Ansari, Faisal Ahmed	
3	SDEA-2026-0094	**Numerical Investigation of the Ballistic Performance of Single- and Double-Layer AA2024-T3 Plates with Equal Total Thickness** Afsar Husain, Sanan H Khan	
4	SDEA-2026-0095	**Improving Energy Efficiency in Fluid Power Systems: A Review of Energy Losses, Reduction Methods, and Practical Applications** Syed Ahmad Maaz Asad	
5	SDEA-2026-0099	**Numerical Investigation of Flow and Heat Transfer Characteristics around Tandem Cylinders for Energy-Efficient Thermal Applications** Md Reyaz Arif, Rashid Ali	
6	SDEA-2026-0104	**Development and mechanical characterisation of 3D printing filament by Recycled plastic for sustainable manufacturing: A Review** Shaan Mohammad, Abdul Tavvab, Harshita Mishra, Mohammad Ali	
7	SDEA-2026-0120	**Comparative Analysis of Fatty Acid and Paraffin Wax as Phase Change Materials for Thermal Energy Storage** Hamid Raza, Adnan Meraj, Ifra Rehman, Shaan Mohammad, Abdul Kalam,Naiem Akhtar	
8	SDEA-2026-0127	**Machine Learning Aided Sound Signal based Study of Various Operating Conditions in Electric Vehicle Motor** Drashya Bansal, Rangala Yaswanth Kumar, Rayyan Nafees, Tauheed Mian 233	
9	SDEA-2026-0132	**AI-Driven Predictive Maintenance for Sustainable Manufacturing** Sidra Khanam	
10	SDEA-2026-0144	**Evaluation of Neuromuscular Efficiency – A Review** Saheefa Khan*, Abid Ali Khan**	
11	SDEA-2026-0146	**Performance, Combustion, and Emission Characteristics of a Single-Cylinder Diesel Engine Fuelled with Plastic Pyrolysis Oil-Diesel Blends** Mohammad Haris Anwar, Nafees Ahmad	