INTERNATIONAL CONFERENCE [SUSTAINABILITY IN DESIGN, ENGINEERING AND ARCHITECTURE**]** **VENUE: ROOM NO. ML 9**

31 OCTOBER 2026 [Saturday]

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

SESSION CHAIR: Prof Nadeem Hasan; SESSION CO-CHAIR: Prof. Arshad Hussain Khan

S. No.	TRACK ID	TOPIC AND AUTHOR	
1	SDEA-2026-0182	**Study of Finger Endurance to Enrich Hand Tool Design** Mohd Mutaiyab Alam, Mohammad Hammad Khan, Mohd Tasleem Abbasi,Uday Kumar, Deepu Upadhyay, Abid Ali Khan	
2	SDEA-2026-0183	**Accuracy Decomposition in Vision-Based Robotic Sorting: A ROS-Based Conveyor Tracking Framework** Zaeem Irtiza Ahmad, Mohammad Haris Anwar, Saleem Anwar Khan	
3	SDEA-2026-0194	**Effect of Buoyancy on the Linear Stability of Non-Isothermal Channel Flow** Taskeen Saba, Nadeem Hasan, Syed Fahad Anwer	
4	SDEA-2026-0204	**Bio-Dielectric Fluid for EDM Process: A Review** Mohd Yunus Khan	
5	SDEA-2026-0208	**Multi-Response Optimization of Wire Arc Additive Manufacturing Process Using Taguchi-Grey Relational Analysis for Fabrication of Al4043** Farhan Ahmad Shamim*, Naved Arif*, Kashif Hasan Kazmi**	
6	SDEA-2026-0216	**Numerical Investigation of Adjustable Pitch Blade Aerodynamics for Small-Scale Horizontal Axis Wind Turbines Operating in Low Wind Speed Coastal Regions** Abdul Quadir	
7	SDEA-2026-0217	**Virtual Reality for Learning and Industrial Training: Integrating Display Technologies, Information Presentation, and Ergonomic Considerations** Yasir Iqbal, Saman Ahmad	
8	SDEA-2026-0220	**Numerical Investigation of Flame Stabilization and Thermal Performance in a U-Shaped Suddenly Expanded Hydrogen–Air Micro-Combustor** Faisal Ahmed, Sana Ur Rehman, Arees Qamareen	
9	SDEA-2026-0232	**Experimental Investigation of Contact Heat Transfer using Thermal Interface Materials** Md Ejaz Hussain, Mohammad Asif, Taliv Hussain	
10	SDEA-2026-0233	**Sustainable Approaches in Modern Foundry Technology** Mohd Yunus Khan	
11	SDEA-2026-0240	**Development and Characterization of Aluminium Composite Reinforced with Grinding Waste** Mohammmad Faizan Khan, Dr. Sajjad Arif	