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

31 OCTOBER 2026 [Saturday]

TECHNICAL SESSION I (12:00-1:30 pm)- MECHANICAL ENGINEERING

SESSION CHAIR: Prof. Anish Upadhaya; SESSION CO-CHAIR: Prof. Ahmad Ali Khan

S. No.	TRACK ID	TOPIC AND AUTHOR	
1	SDEA-2026-0003	**Dual-track scheduling and reactive rescheduling for energy-aware flexible manufacturing systems under disruption: a discrete-event simulation study** Mohd. Shaaban Hussain*, Mohammed Ali**	
2	SDEA-2026-0007	**A Systematic Review on the Evolution and Emerging Trends of Industrial Manipulator Design** Arafat Batte Degea, Faisal Talib	
3	SDEA-2026-0014	**Study of Modern and Advanced Vapour Absorption Refrigeration Cycle Configurations for Environment Friendly, Energy Efficient and Sustainable Development** Adnan Hafiz	
4	SDEA-2026-0017	**A Comprehensive Review of Fused Deposition Modeling Parameters Influencing the Mechanical Properties of 3D-Printed Parts** Mohd Najeeb, Abid Ali Khan, and Syed Imran Shafiq	
5	SDEA-2026-0020	**RFID-Enabled Flexible Manufacturing Systems in Industry 4.0: A Simulation and Machine Learning-Based Framework for Performance Evaluation** Mohammad Nasir Khan*, Mohammed Ali**	
6	SDEA-2026-0021	**Effect Of Raster Geometry on Tensile Strength of Specimen Fabricated Via FDM** Mohd Mutaiyab Alam, Faisal Hasan, Syed Imran Shafiq	
7	SDEA-2026-0026	**Discrete-Event Simulation for Manufacturing Performance Evaluation: A Review of Applications, Tools, and Sustainability Implications** Junaid Warsi, Prateek Gupta, Mohd Sirtaj Siddiqui, Dr. Syed Imran Shafiq	
8	SDEA-2026-0028	**Enhancing Environmental Sustainability in Automotive Industry Using Additive Manufacturing Process** Omar Sadique, Mohammed Ruman, Umair Abrar, Maaz Hashmi, Faisal Talib	
9	SDEA-2026-0031	**Effect of Low-Pressure Abrasive Water Jet on Surface Finish of Turned Mild Steel Rusted Specimens** Shamshad Ali, Faisal Hasan	
10	SDEA-2026-0033	**Analysis of a Production Unit through Simulation Using Arena Software** Chaudhary Areeb Quadir, Vinayak Gaur, Mohd Bilal, Shujahat Ali, Abdul Wahid, Mohd Abid, Rohit Chauhan and Syed Imran Shafiq	