

PROGRAM SCHEDULE
7th INTERNATIONAL CONFERENCE ON

**Smart and Sustainable Developments in Materials, Manufacturing
and Energy Engineering**
(SME-2026)

Venue: PHALGUNI SEMINAR HALL, 2ND FLOOR RAMANUJAM BLOCK

Invited Talk 1	
Date: 05.02.2026	Time: 11.30 to 12.30
TOPIC: To be announced soon by Mohd Ibrahim B.S	
Invited Talk 2	
Date: 06.02.2026	Time: 10 to 11AM
TOPIC: Advanced applications of Metal 3D printing by Dr. Vishwas Puthige	
Invited Talk 3	
Date: 07.02.202	Time: 10. to 11.15AM
TOPIC:	

Date:05.02.2026		Time:2.00 to 4 PM (Session 1)	
Venue: Phalguni			
Session Chairs:			
Session Coordinator: Dr. Adarsh Rai			
PAPER ID	Advanced Manufacturing & Materials		
	Authors and Paper Title (7 papers)		
SME 2609	Mechanical and Tribological Performance of Hybrid AZ91 Magnesium Composites Reinforced with Titanium Diboride and Multi-Walled Carbon Nanotubes via Stir and Ultrasonic-Assisted Casting		
SME 2619	Parameter Optimization for Additive Manufacturing of Lightweight Components in Aerospace/Automotive Applications		
SME 2650	Review on welding and Stress relieving of Ti-6Al-4V: Challenges and Recent Advancements		
SME 2675	Approximation Error Model for the Solution of Inverse Conjugate Heat Transfer Problem		
SME 2690	Experimental role of Surface Preparation in Enhancing the Bond Strength of BFRP-Al-T6 Hybrid Joints		
SME 2691	Surface Treatment Dependent Strength and Failure Behavior of Aluminum 5052-Basalt Fiber Composite Adhesive Joints		
SME 2696	Shape Memory Alloy a Comprehensive Review		

Date:05.02.2026		Time:2.00 to 4 PM (Session 2)	
Session Chairs:			
Venue: Metrology lab		Session Coordinator: Mr Sunil Kumar Shetty	
PAPER ID	Modeling, Optimization & Control Systems		
	Authors and Paper Title (4 papers)		
SME 2601	MODIFIED FLOWER POLLINATION ENHANCED MODEL PREDICTIVE TEMPERATURE CONTROLLER FOR POLYMER EXTRUSION PROCESS		
SME 2628	Electric Vehicle Fast Charging Optimization with V2G Integration using Adaptive Frilled Lizard Optimization		
SME 2632	Artificial Neural Network Modelling for Production of Biodiesel from Waste Cooking Oil		
SME 2685	Calculation the Reliability-Adjusted Distance to Optimize TSP Solutions		
SME 2658	FPGA IMPLEMENTATION OF PERSONALIZED VOICE EXTRACTION SYSTEM		

Date:06.02.2026		Time: 11.30 to 1:00 PM (Session 3)	
Session Chairs:			
Venue: Phalguni		Session Coordinator: Mr. Mohan Poojary	
PAPER ID	Thermal & Energy Systems		
	Authors and Paper Title (3 papers)		
SME 2641	Performance study of a solar cooker working on evacuated tubes as solar energy collector		
SME 2673	Matrix-equations to Forecast Working of Parallel-Cross-flow Heat-Exchanger		
SME 2656	Mechanical and Thermal Properties of PLA Reinforced with Natural and Synthetic Materials - A Review		
SME2626	Experimental Evaluation of Bamboo Cooling Pads for Evaporative Cooling System		

Date:06.02.2026		Time: 11.30 to 1:00 PM (Session 4)	
Session Chairs:			
Venue: Robotics CAD lab		Session Coordinator: Mr Srinivas Prabhu M.	
PAPER ID	Industrial Automation, PLCs & Instrumentation		
	Authors and Paper Title (3 papers)		
SME 2693	Design of a Self optimizing plc architecture for dynamic memory and scan time management in industrial automation		
SME 2694	PLC-Based Implementation of PID Control for Flow and Level Regulation in a Tank System		
SME 2695	High-Speed PLC-Based Motion Synchronization Using Feedforward + Feedback Modelling		

Date:06.02.2025		Time:2 to 4 PM (Session 6)	
Session Chairs:			
Venue: PHALGUNI		Session Coordinator: Bhaskara P	
PAPER ID	Structural & Mechanical Design Analysis & Condition Monitoring, Fault Diagnosis Signal Processing & Embedded Systems		
	Authors and Paper Title (5 papers)		
SME 2633	Aerodynamic shape optimization of a Fixed-Wing UAV Fuselage:A FV Study		
SME 2680	Experimental Study on the Effect of Steel Mesh Diameter as Textile Reinforcement on the Flexural Behavior of Precast Concrete Sandwich Panels		
SME 2687	Structural Analysis of the Wastes of the “Almalyk MMC” JSC Copper Concentrate Factory		
SME 2602	Comparative Analysis of Fault Detection and Identification in Shell and Tube Heat Exchanger Using Multivariate Statistical Tools		
SME 2643	Rolling Element Bearing Fault Diagnosis using Bhattacharya Distance		