



INTERNATIONAL CONFERENCE
ON
SUSTAINABLE ENERGY AND THERMAL SYSTEMS (SEATS 2026)

DEPARTMENT OF MECHANICAL ENGINEERING
MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA
DATE: SEPTEMBER 10TH - 11TH, 2026

(CONFERENCE SCHEDULE)

DAY - 1 (10/09/2026)

Time	Activity	Venue
09:30 AM Onwards	Registration (Complete day)	Foyer Smt. Sharada Pai Auditorium, 2AB
10:30 - 11:30 AM	Inaugural of SEATS 2026	Smt. Sharada Pai Auditorium, 2AB
11:30 - 12:00 Noon	Hi-Tea	Old Food Court
12:00 - 12:30 PM	Keynote Session by Dr Satyanarayan Patel, IIT Indore	Room No. 307, 1AB
12:30 - 01.00 PM	Keynote Session by Dr R. Wan Mohd Hafizuddin Bin Wan Yussof Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia	Room No. 307, 1AB
01:00 - 02:00 PM	Lunch	Old Food Court, 1 st Floor

Keynote Link: [KEYNOTE SESSIONS FOR 10 & 11 SEP 2026 | Join meeting in Teams | Microsoft Teams](#)

02:00 - 02:20 PM	Invited Talk by Dr Sonalika Agarwal Graduate School of Advanced Science and Engineering Hiroshima University, Japan	Room No. 307, 1AB
02:20 - 03:20 PM	Technical Session I (Paper ID: 15, 22, 33, 45, 52, 73, 74, 101) Session chair: Dr Sonalika, Hiroshima University, Japan Co-chair: Dr. Devendra Vishwakarma, MUJ	Room No. 307, 1AB
03:30 - 03:50 PM	Invited Talk by Dr Jibitesh Kumar, MAHE	Room No. 307, 1AB
03:50 - 04:50 PM	Technical Session II (Paper ID: 08, 23, 28, 39, 44, 69, 78, 86, 107) Session chair: Dr Jibitesh Kumar, MAHE Co-chair: Dr. Pushpendra Rathore, MUJ	Room No. 307, 1AB
04:50 - 05:50 PM	Technical Session III (Paper ID: 19, 46, 47, 50, 62, 67, 71, 77, 102) Session chair: Dr Vikram Mahamiya, SRM Co-chair: Dr Sanjeev Jakhar, MUJ	Room No. 307, 1AB
05:50 - 06:00 PM	Tea Break	Room No. 306, 1AB

DAY - 2 (11/09/2026)

Time	Activity	Venue
10:00 - 10:30 AM	Keynote Session by Professor Dr. Rizalman Bin Mamat Universiti Malaysia Pahang Al-Sultan Abdullah	Room No. 307, 1AB
10:30 - 11:00 AM	Keynote Session by Professor Rajamohan Natarajan Faculty of Engineering at Sohar University, Oman	Room No. 307, 1AB
11:00 - 11:20 AM	Tea	Room No. 306, 1AB

11:20 - 11:40 AM	Invited Talk by Mr Naresh Sharma Gas Turbine R&D Leader & IPT Lead at Siemens Energy	Room No. 307, 1AB/ Board Room, 1AB
11:40 - 01:00 PM	Technical Session IV (Paper ID: 06, 21, 24, 30, 40, 68, 75, 87, 100) Session chair: Mr Naresh Sharma Co-chair: Dr. Hemant Raj Singh, MUJ	Room No. 307, 1AB/ Board Room, 1AB
01:00 - 02:00 PM	Lunch	Old Food Court, 1 st Floor
02:00 - 02:20 PM	Invited Talk by Dr Shivraj Dhaka, Principal Counsellor, Confederation of Indian Industry	Room No. 307, 1AB/ Board Room, 1AB
02:20 - 03:40 PM	Technical Session V (Paper ID: 70, 72, 80, 81, 82, 84, 88, 94, 95) Session chair: Dr Shivraj Dhaka Co-chair: Dr Dharmesh Yadav, MUJ	Room No. 307, 1AB/ Board Room, 1AB
03:40 - 04:00 PM	Conference Valedictory	Room No. 307, 1AB/ Board Room, 1AB
End of Conference		

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(TECHNICAL SESSION-I SCHEDULE, DATE-10/09/2026)

(02:20 PM - 03:20 PM)

ROOM NO. 307, 1AB/ BOARD ROOM, 1AB

Online Presentation link (MS Team)-

<https://teams.microsoft.com/meet/449869545064740?p=QjkpLXbc9ouGgEv3xn>

Time	Paper ID	Participant	Paper Title
2:20 PM-2:27 PM	22	Manglesh Kumar Gupta	Numerical Investigation of Multi-Layer Concentric Cylindrical PCM Thermal Energy Storage System with Fin-Assisted Enhancement
2:27 PM-2:35 PM	45	Bhaskar Patel	Experimental Investigation of Reliable and Economical Phase Change Materials for Low-Temperature Thermal Storage
2:35 PM-2:42 PM	15	Mohd Shahid	Aeroplane Engine Mount Study: A Systematic Review
2:42 PM-2:50 PM	33	Ramesh Vabanagiri	Selection of SLA ABS Material for Rapid Prototyping of Thin-Walled IRIS Device Enclosures Prior to Production
2:50 PM-2:57 PM	52	Sudhir Kumar Singh	Pool Boiling Heat Transfer Performance of Al ₂ O ₃ Coated on Grooved-Microstructure Surface
2:57 PM-3:05 PM	73	S Prathap Singh	Milling Characteristics of Kenaf-Flax Fiber Strengthened Epoxy Composites with Boron Carbide Filler
3:05 PM-3:12 PM	74	Paresh Kulkarni	Influence of Hybrid Graphene-Al ₂ O ₃ Nanodielectric on Recast Layer Formation, Surface Integrity and Sustainable EDM Performance of Inconel 718
3:12 PM-3:20 PM	101	Rachana Ambade	Digital Twin Enabled Urgency Aware Scheduling for High-Completion Rate Electric Vehicle Charging in PV-Integrated Microgrids

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(TECHNICAL SESSION-II SCHEDULE, DATE-10/09/2026)

(03:50 AM - 04:50 PM)

ROOM NO. 307, 1AB/ BOARD ROOM, 1AB

Online Presentation link (MS Team)-

[Online TS-II, SEATS-2026 | Join meeting in Teams | Microsoft Teams](#)

Time	Paper ID	Participant	Paper Title
3:50 PM - 3:57 PM	8	Sarvesh Rayar	Performance and Emission Characteristics of a diesel engine fueled with additive - Biodiesel Using Optimization Techniques
3:58 PM - 4:04 PM	23	Satya Prakash Gupta	A Comprehensive Review on Performance, Combustion and Emission Characteristics of Hydrogen-Enriched Biodiesel Blends with Additives in Internal Combustion Engines
4:05 PM - 4:11 PM	28	Saurabh Khandelwal	Performance Effect of Operating Parameters on Thermoelectric Module Radiant Cooling System
4:12 PM - 4:18 PM	39	Jibitesh Kumar Panda	Optimization of Hydrogen induction and biodiesel blending in CRDI Diesel engine: A Factorial Experimental Study
4:19 PM - 4:25 PM	44	Kishan Kumar	Evaluation of Greenhouse Cooling Strategies: Experimental and Numerical Study of Fogging, Earth-Air Heat Exchanger, and Their Combination
4:26 PM - 4:32 PM	69	Aditya Subhash Dalvi	A Computational Framework for Predicting Hydraulic Actuator Performance under Variable Fluid Properties
4:33 PM - 4:39 PM	78	Dr Rohit Kumar	Optimization of Acid Degumming Parameters for the Removal of trace metals from oils and fats.
4:40 PM - 4:46 PM	86	Roopesh Kanwer Gaur	Experimental investigation of CI engine operated at B20 blends of Various Biodiesel
4:47 PM - 4:53 PM	107	Abhishek Priyam	Hydrogen-Enriched Biodiesel Fuelled CRDI Diesel Engines: A Review on Performance and Emission Analysis

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(TECHNICAL SESSION-III SCHEDULE, DATE-10/09/2026)

(04:50 AM - 05:50 PM)

ROOM NO. 307, 1AB/ BOARD ROOM, 1AB

Online Presentation link (MS Team)-

<https://teams.microsoft.com/meet/493868506911040?p=CYCEpqlfBQD5Uw6OWO>

Time	Paper ID	Participant	Paper Title
4:50 - 4:57 PM	19	Dr Ajay Patil	Numerical Simulation of Fluid Flow and Heat Transfer in Microchannel Heat Sink with Elliptical Cavities on Sidewalls
4:58 - 5:04 PM	46	Hardik Mehendru	A CFD Analysis to Investigate the Enhanced Thermal Performance of a NACA Airfoil Pin-Fin Based Cold Plate Using OpenFOAM
5:05 - 5:11 PM	47	Abhigyan Borah	Numerical Investigation of a Longitudinal Turbulator Based Cold Plate for Enhanced Thermal Management Using ANSYS Fluent
5:12 - 5:18 PM	50	Ranjan Chaudhary	Energy and exergy solar cooking system entailing vacuum tubes solar collector
5:19 - 5:25 PM	62	Aparna S Deepika R and Madhumitha S	Thermo-Hydraulic Performance of Twisted Microchannel Heat Sinks for Electronic Cooling: A Numerical Study
5:26 - 5:32 PM	67	Rajinder Kumar	Cooling Technologies for Performance Enhancement of Photovoltaic Systems: A Comprehensive Review
5:33 - 5:39 PM	71	Pavan Kumar Pathak	Economic and Thermodynamic Analysis of a Solar Still Integrated with Nanocoating and Eutectic Phase Change Material
5:40 - 5:46 PM	77	Aneesh Jose	Experimental Investigation of Circular Cavity Bipolar Plates for Enhanced Anode-Side Mass Transport in PEM Fuel Cells
5:47 - 5:53 PM	102	Ananya Sharma	A Hybrid AI Model for Accurate Solar Energy Output Forecasting Using Behaviour-Based Clustering and Random Forest

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(TECHNICAL SESSION-IV SCHEDULE, DATE-11/09/2026)

(11:40 AM - 01:00 PM)

ROOM NO. 307, 1AB/ BOARD ROOM, 1AB

Online Presentation link (MS Team)-

<https://teams.microsoft.com/meet/344807753234580?p=l4ggDwlBEIFxAWkIFS>

Time	Paper ID	Participant	Paper Title
11:40 AM- 11:48 AM	6	Mayur Marathe	A Review of Aerogels: Thermal Insulation, Classification, And Performance
11:49 AM -11:57 AM	21	Shivanshu Maurya	Comparative Thermal Analysis of Solar Energy-Driven Membrane Distillation Systems
11:58 AM -12:06 PM	24	Parveen Badoni	Adaptive Duty Cycling for Energy- Constrained IoT Sensor Systems
12:07 PM -12:15 PM	30	Desh Deepak	A State-Of-The-Art Review on Sustainable Valorization of Plastic Waste Via Pyrolysis
12:16 PM -12:24 PM	40	Madhurjya Mahanta	Direct Numerical Simulation of Turbulent Mixed Convection in A Horizontal Pipe Under Isothermal Boundary Condition
12:25 PM - 12:33 PM	68	Santosh Kumar Dash	Experimental Investigation of Atmospheric Water Harvesting Sustainably Using Silica Gel Adsorption Material
12:34 PM -12:42 PM	75	Ranjeet Kumar	Optimal Design of a Hybrid Microgrid for Ensuring Continuous Off-Grid Electricity Access in Rural Area
12:43 PM -12:51 PM	87	Ashish Kumar Patel	Experimental Performance Investigation of CuO Nanoparticle-Enhanced Paraffin Wax for Thermal Energy Storage
12:52 PM -01:00 PM	100	Raj Kanekar	Development of a Solar PV-Integrated Electric Vehicle Charging System with Bidirectional Grid Interaction

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(TECHNICAL SESSION-V SCHEDULE, DATE-11/09/2026)

(2:20 PM - 3:40 PM)

ROOM NO. 307, 1AB/ BOARD ROOM, 1AB

Online Presentation link (MS Team)-

<https://teams.microsoft.com/meet/334822968065575?p=vZNY1fprXhIb7jbZnS>

Time	Paper ID	Participant	Paper Title
2:20 PM - 2:28 PM	70	Siva Naga Lakshmi Balla	Real-Time Plant Stress Monitoring Using Hybrid ML, IoT, and Image Data
2:29 PM - 2:37 PM	72	Dr Nitin Shashikant Motgi	Electromechanical Gantry-Based Seedling Pick-Up Systems for Precision Agriculture: A Systematic Review and Conceptual Design Framework
2:38 PM - 2: 46 PM	80	Edwin David	Machine Learning for Water Pollution-Induced Disease Prediction: An Integrated Framework with IoT Sensor Integration, GIS-Based Hotspot Visualization, and Cross-Platform Mobile Deployment
2:47 PM - 2:55 P M	81	B Saravanakumar	Structural Feasibility of Topology Optimized Recycled Sustainable Drone Frames: A Comparative FEA Study
2:56 PM - 3:04 PM	82	B Surya	Modal Analysis of Bioinspired Helicoidal Laminated Plates
3:05 PM - 3:13 PM	84	Badal Kudachi	Computational and Experimental Study of a Helical-Blade VAWT for Urban Low Wind Applications
3:14 PM - 3:22 PM	88	Suraj Ravindra Marathe	Experimental Evaluation of a Refurbished Centralized Cooling Tower for Improved Engine Thermal Management
3:23 PM - 3:31 PM	94	Parveen Badoni	Self-Learning CPS using Reinforcement Learning
3:32 PM - 3:40 PM	95	Mr. Rohi Prasad	Feature Extraction and Comparative Evaluation of ML Algorithms for Data-Driven HEV Energy Management