

Reasearch Schloar Day 2026
Department of Mechanical Engineering

28th March 2026

Time	Events		
9:15-9:30 am	Inauguration (Venue : L18)		
9:30-10:30 am	RS Pandey Lecture (Venue : L18)		
10:30-10:45 am	Tea (Venue : L18 Foyer)		
10:30 am - 11:30 am	Poster Presentation (Venue: L18 Foyer)		
11:00-01:00 pm	Session 1 (Venue : L3)	Session 2 (Venue : L4)	Session 3 (Venue: L5)
11:00-11:15 am	<i>Tanuj Gupta : A Design Framework for Magnetically Actuated Tunable Honeycomb Metastructure</i>	<i>Gyanesh : Heat Transfer Performance and Durability of Electrodeposited Bi-conductive Microporous Coatings in Saturated Pool Boiling</i>	<i>Sohom Goswami : Flow Past Multilayer Porous Screens for Fog Harvesting Applications</i>
11:15-11:30 am	<i>Dinesh Kumar Patel : Noise characterization of trailing edge serrations on UAV propeller by beamforming mapping and acoustic spectra</i>	<i>Parvez Alam : Thermal Pathways in Porous Media: The Role of Aspect Ratio and Grain Size</i>	<i>Chakka Ram Gopal : Drop spreading characteristics over a micro-pillared surface and comparison with an equivalent flat surface</i>
11:30-11:45 am	<i>Pawan Kumar : Design of a Novel 3-DOF Parallel Manipulator with Extended Workspace</i>	<i>Keshav Yadav : Flame Dynamics and Blowoff Process in Lean Premixed Bluff-Body-Stabilized Flames</i>	<i>Radhika Sarawagi : Successive Solidification and Melting of Water-based Multicomponent System</i>
11:45-12:00 pm	<i>Randhir Kumar : Dropwise condensation on fused deposition modeling fabricated copper-infused heat treatable polylactic acid substrates</i>	<i>Rahul Kumar Singh : Development of Turbulent Jet Ignition System for Combustion of Low Carbon Fuels in a Constant Volume Combustion Chamber</i>	<i>Vishwesh Dutt Mishra : Label-Free Detection of Bloodstream Pathogens using EIS</i>
12:00-12:15 pm	<i>Shubham Kumar : Experimental Aeroacoustic Source Localization Using Phase-Conjugation</i>	<i>Gunvir Singh Walia : Modeling Shock Turbulence Combustion Interactions in High-Speed Flows</i>	<i>Toshith : See Far, Step Safe: A Hierarchical Navigation Framework for Robots in Unknown Environments</i>
12:15-12:30 pm	<i>Lalit Kushwaha : Coupled Lagrangian-Eulerian Simulation of Shock-to-Detonation Transition in PBXs</i>	<i>Suvarchalanjan Bellaganti : Lagrangian Coherent Structures in Active Turbulence</i>	<i>Ronald Joseph : Contact force estimation for a single leg test setup with compliance in MuJoCo</i>
12:30-12:45 pm	<i>Akash Kumar Gupta : A strain gradient crystal plasticity finite element method to predict irradiation induced damage in martensitic steel</i>	<i>Krishna Chaitan Marthi : Flow instability in side-by-side triangular bluff body arrays</i>	<i>Arko Biswas : A Novel Fractional Order Transfer Function Model of IPMC Actuator</i>
12:45-01:00 pm		<i>Tarun Kulshrestha : Dropwise condensation on fused deposition modeling fabricated copper-infused heat-treatable polylactic acid substrates</i>	
1:00-2:00 pm	Lunch (Venue : L16 Foyer)		
2:00-2:30 pm	Valedictory (Venue : L16)		