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|  | **Time** | **Event** | **Venue** |
| **Day 1, August 21, 2024, Wednesday** | 8:00 to 9:00 | Breakfast, Registration | OL |
| 9:00 to 10:40 | **Inauguration and Keynote session** | OA |
| 10:40 to 11:00 | **Tea break** | OL |
| 11:00 to 12:00 | Session 1 | OA |
| 12:00 to 13:00 | Session 2 | OA |
| 13:00 to 14:00 | **Lunch** | OL |
| 14:00 to 15:00 | Session 3 | OA |
| 15:00 to 16:00 | Session 4 | OA |
| 16:00 to 16:20 | **Tea break** | OL |
| 16:20 to 17:20 | Session 5 | OA |
| 17:45 to 18:30 | Lab visit |  |
| 18:30 to 19:30 | Free time |  |
| 19:30 to 21:30 | **Dinner** | OL |
| **Day 2, August 22, 2024, Thursday** | 8:00 to 9:00 | Breakfast | OL |
| 9:00 to 10:00 | **Keynote session** | OA |
| 10:00 to 11:00 | Session 6 | OA |
| 11:00 to 11:20 | **Tea break** | OL |
| 11:20 to 12:20 | Session 7 | OA |
| 12:20 to 13:20 | Session 8 | OA |
| 13:20 to 14:10 | **Lunch** | OL |
| 14:10 to 15:10 | Session 9 | OA |
| 15:10 to 16:10 | Session 10 | OA |
| 16:10 to 16:30 | **Tea break** | OL |
| 16:30 to 17:30 | Session 11 | OA |
| 17:30 to 18:30 | Lab visit |  |
| 18:30 to 19:30 | Free time |  |
| 19:30 to 21:30 | **Dinner** | OL |
| **Day 3, August 23, 2024, Friday** | 8:00 to 9:00 | Breakfast | OL |
| 9:00 to 10:00 | Session 12 & 13 | OA/OSR |
| 10:00 to 11:00 | Session 14 & 15 | OA/OSR |
| 11:00 to 11:20 | **Tea Break** | OL |
| 11:20 to 12:20 | Session 16 & 17 | OA/OSR |
| 12:20 to 13:20 | Session 18 & 19 | OA/OSR |
| 13:20 to 14:10 | **Lunch** | OL |
| 14:10 to 15:10 | Session 20 & 21 | OA/OSR |
| 15:10 to 16:10 | Session 22 | OA/OSR |
| 16:10 to 16:30 | **Tea Break** | OL |
| 16:30 to 17:30 | Free Time |  |
| 17:30 to 18:30 |  |
| 18:30 to 19:30 |  |
| 19:30 to 21:30 | **Dinner** | OL |

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**OL**: Outreach Lawn

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| **Day 1**  **Wednesday, 21st August, 2024** | | |
| 8:00 | Breakfast, Registration | OL |
| 9:00 | Inauguration & Keynote Session | OA |
| 10:40 | **Tea Break** | OL |
| **Session 1**  **Turbomachinery** | | |
| 11:00 | Numerical Simulations Of A Transonic Axial Compressor With Roughness Near The Onset Of Stall  *Pradeep A.M. (IIT, Bombay)*  *Harshal Deepak Akolekar (IIT, Jodhpur)* | OA |
| 11:20 | Effects Of Additive Manufacturing-Induced Thickened Leading Edge On Aerodynamic Performance Of Compressor Blade  *Youngeon Ko (Seoul National University)*  *Seung Jin Song (Seoul National University)* | OA |
| 11:40 | Optimization Of High-Speed LP Turbine Blade Profile Using CAD-Based Parametrization And Meta-Modelling Algorithms  *Chetan S Mistry (IIT, Kharagpur)* | OA |
| **Session 2**  **Combustion** | | |
| 12:00 | High Repetition Rate Measurements Of Temperature And Water Vapour Concentration In A Non-Premixed Swirl Stabilized Combustor Using TDLAS  *Gokul Krishnan K G (IIST, Thiruvananthapuram)* | OA |
| 12:20 | Experimental And Computational Analysis On Effect Of Lean Primary Zone Operation On Combustion Performance Of Model Gas turbine Combustor  *Muthuselvan (UPES, Dehradun)* | OA |
| 12:40 | Influence Of Quench Air And Fuel Injector Flow On The Non-Reacting Flow Field In A Rich-Quench-Lean Combustor  *Kundan Kumar (IISc, Bengaluru)* | OA |
| 13:00 | **Lunch** | OL |
| **Session 3**  **Turbomachinery** | | |
| 14:00 | Performance Of Series Hybridized Turbofan Engine  *Apurva Danabhai Chavda (IIT, Bombay)* | OA |
| 14:20 | Structural Integrity Assessment Of Gas Turbine Compressors Under Transient Thermal Conditions  *HA Minh Duc (Viettel group)* | OA |
| 14:40 | Design Of An Open Circuit Transonic Annular Cascade Turbine Test Facility  *Vaibhav Kumar Mishra (IIT, Bombay)* | OA |

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| **Session 4**  **Combustion** | | |
| 15:00 | Investigation Of Internal And External Aerodynamics For Multi-Swirler Injector Varying The Vane Angle Of Swirler  *Preetam Jamod (IIT, Jammu)* | OA |
| 15:20 | Numerical Investigation Of Blended Jet-A And Alcohol- To-Jet Fuel Auto-Ignition At Elevated Pressures  *Amrit Bikram Sahu (IIT, Bhuvaneshwar)* | OA |
| 15:40 | Response Of Partially Premixed Swirl Flame To Transverse Acoustic Excitation  *Ravi Gupta (IISc, Bengaluru)* | OA |
| 16:00 | **Tea Break** | OL |
| **Session 5**  **Heat transfer/Stationary Modules** | | |
| 16:20 | A Study On The Development Of An Afterburner For A Supersonic Micro Gas Turbine For Small High-Speed UAVs  *DongEun Lee (University of Science and Technology, South Korea)* | OA |
| 16:40 | Depressurized Boiling Flow Analysis In Nozzle For Cryogenic Gas-Liquid Two-Phase Flow Measurement  *Sakai Shin (University of Tokyu, Japan)* | OA |
| 17:00 | Estimation Of Non-Gray Radiative Heat Flux With Soot In Lox-Methane Rocket Thrust Chamber  *Pradeep Kumar (IIT, Mandi)* | OA |
| **Day 1 Technical sessions concluded** | | |
| 17:45 | **Lab Visit** | |
| 19:30 | **Dinner**  **Venue:** OL | |

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| **Day 2**  **Thursday, 22nd August, 2024** | | |
| 8:00 | Breakfast | OL |
| 9:00 | Keynote Session | OA |
| **Session 6**  **Combustion** | | |
| 10:00 | Numerical Investigation On The Aerodynamic Characteristics Of A Lean-Burn Gas Turbine Fuel Injector  *Preetam Jamod (IIT, Jammu)* | OA |
| 10:20 | Combustion Dynamics Study Of Biofuels In A Swirl Stabilized Combustor  *Satender Singh (IIT, Madras)* | OA |
| 10:40 | Effect Of Multi-Element Spray Interactions On The Spray Characteristics Of A Pressure Atomizer  *Harsh Saria (IIST, Thiruvananthapuram)* | OA |
| 11:00 | **Tea Break** | OL |
| **Session 7**  **Turbomachinery** | | |
| 11:20 | Analysis Of The 3D Flow Structure Within Gas Turbine Blade Lattice Cooling Channels Using Magnetic Resonance Velocimetry  *Jumin Hong (Seoul National University, South Korea)* | OA |
| 11:40 | Coupled Transition And Turbulence Models For Low Pressure Turbine Flows Using Multi-Objective Data-Driven Frameworks  *Harshal Deepak Akolekar (IIT, Jodhpur)* | OA |
| 12:00 | Sub Idle Characteristics Of A Centrifugal Compressor  *Keerthi M C (IIT, Dharwad)*  *Sujeet Kumar Jaiswal (IIT, Dharwad)* | OA |
| **Session 8**  **Combustion** | | |
| 12:20 | Effect Of Hydrogen Addition Over The Flame Characteristics Of Methane-Air Partially-Premixed Swirl Flame  *Ravi Gupta (IISc, Bengaluru)* | OA |
| 12:40 | Injector Exit Geometry Variations On The Spray Characteristics Of An Effervescent Injector  *Harsh Saria (IIST, Thiruvananthapuram)* | OA |
| 13:00 | Numerical Investigation Of CH4 - H2 – Air Combustion In A Jet Engine Combustor  *Samarth Jain (IIT, Roorkee)* | OA |
| 13:20 | **Lunch** | OL |

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| **Session 9**  **Combustion** | | |
| 14:10 | Design And Development Of Transonic Compressor: Opportunities And Challenges  *Narahari Rath (HAL, Bengaluru)* | OA |
| 14:30 | Numerical Prediction And Separation Control Of Flows In A Low Pressure Turbine Cascade At Transonic Conditions  *Aishna Jain (IIT, Bhilai)* | OA |
| 14:50 | Aerodynamic Design Of A Low-Pressure Axial Turbine Stage  *S N Agnimitra Sunkara (CSIR-National Aerospace Laboratories, Bangalore)* | OA |
| **Session 10**  **Heat Transfer/Stationary Modules** | | |
| 15:10 | 2D Numerical Heat Transfer Analysis On Carbon Fiber Composite For Thermal Protection  *Vinay C A (CSIR-National Aerospace Laboratories, Bangalore)* | OA |
| 15:30 | Experimental Investigation Of IR Radiation On Circular And Serpentine Nozzles  *Dinesh Durai (IIT, Kanpur)*  *Tarun Kurakula (IIT, Kanpur)* | OA |
| 15:50 | Effects Of Inlet Distortion On Boundary Layer Ingesting Propulsion System Performance  *Seisuke Hirayama (University of Tokyo, Japan)* | OA |
| 16:10 | **Tea Break** | OL |
| **Session 11**  **Combustion** | | |
| 16:30 | Modelling Radiative Heat Transfer For A Kerosene Flame Using Spectral Line Based Wsgg (Slw) Method For Can Combustor  *Pradeep Kumar (IIT, Mandi)* | OA |
| 16:50 | Engine Fire Extinguishing Agent Concentration Studies And Validation For Pusher-Propeller Aircraft  *Vinay C A (CSIR-National Aerospace Laboratories, Bangalore)* | OA |
| 17:10 | The Numerical Simulation Of Dynamics Of A Droplet Upon Impacting An Inclined Surface  *Arnab Chakraborty (TCS research)* | OA |
| **Day 2 Technical sessions concluded** | | |
| 17:30 | **Lab Visit** | |
| 19:30 | **Dinner** | OL |

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| **Day 3**  **Friday, 23rd August, 2024** | | |
| 8:00 | Breakfast. **Venue**: OL | |
|  | **Session 12**  **Turbomachinery**  **Venue:** OA | **Session 13**  **Combustion**  **Venue:** ORS |
| 9:00 | Numerical Investigations On Delay In Onset Of Inflection For S-Shaped Compressor Airfoil Flow Characteristics  *Chetan Mistry (IIT, Kharagpur)* | Effect Of Fuel Injection Velocities On Pure Ammonia Combustion In A Novel Burner  *Muddada Srinivasarao (IIT, Kharagpur)* |
| 9:20 | Non-Axisymmetric End-Wall Contouring And Off- Design Performance Of A Turbine Cascade  *Krishma Rajesh Mehta (IIT, Madras)* | Large Eddy Simulation Using The Stochastic Fields Approach Applied To A Swirled Stabilized Gas Turbine Combustor  *Krishna Chaitan Marthi (IIT, Kanpur)* |
| 9:40 | Design And Analysis Of Purge Flow Path On The Performance Of The High Pressure Transonic Axial Turbine  *Pitchai Pillai Sharmila (IIT, Madras)* | Investigation On The Effects Of Slotted Cavity Guide Vane On Flame Stability And Emission Reduction In A Trapped Vortex Combustor  *Sowrish Vijaay S (MIT, Chennai)* |
|  | **Session 14**  **Turbomachinery**  **Venue:** | **Session 15**  **Combustion**  **Venue:** |
| 10:00 | Numerical Study On The Influence Of Different Types Of Curved Holes On Film Cooling Effectiveness  *Santhosh Senguttavan (Sungkyunkwan University, South Korea)* | Modelling Of N-Dodecane/Ammonia/Methane Blend In A Swirl Burner Using Flamelet Model  *Richie Shaji Mathew (IIT, Hydrabad)* |
| 10:20 | Experimental Investigation Of Secondary Fluidic Velocity Influence On Primary Jet Mixing For Active Flow Control  *Lohitvel Gopikannan (Anna University, Chennai)* | Validation Of Chemical Kinetic Reaction Models With Nh3/H2 Oxidation Chemistry For Flame Speed, Ignition Delay Time, And Species Prediction Performance  *Y Vijrumbana (IIT, Kharagpur)* |
| 10:40 | Predictions Of Heat-Transfer On High-Pressure Turbine Vanes At Varying Flow Conditions  *Vishal Sethi (IIT, Kanpur)* | Investigation Of Non-Premixed Reverse Flow Porous Media Combustor  *Sandeep Kumar Rajput (IIT, Kanpur)* |
| 11:00 | **Tea Break. Venue**: OL | |

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|  | **Session 16**  **Combustion**  **Venue:** OA | **Session 17**  **Structures/ Manufacturing**  **Venue:** OSR |
| 11:20 | Effect Of Hydrogen Enrichment On Soot Formation In Laminar Ethylene Diffusion Flames  *Kundan Kumar (IISc, Bengaluru)* | Correlation For Swirl Number In Combined Counter-Rotating Swirl Generators  *Vivek Sahu (IIT, Jammu)* |
| 11:40 | Experimental Study Of Bluff-Body Stabilized Flames In Lean Premixed Mode  *Keshav Yadav (IIT, Kanpur)* | Effect Of Non-Linear Spring Force On Rotor-Bearing System Subjected To Harmonic Excitations  *Jasnoor Singh (IIT, Ropar)* |
| 12:00 | Investigation On Scaling Of High Thermal Intensity Reverse Flow – Porous Media Combustor In Non-Premixed Mode  *Sandeep Kumar Rajput (IIT, Kanpur)* | Ti-900: An Alloy For Gas Turbine Compressor Blades Application  *Dipayan Chakraborty (IIT, Tirupati)* |
|  | **Session 18**  **Combustion**  **Venue:** OA | **Session 19**  **Structures/ Manufacturing**  **Venue:** OSR |
| 12:20 | Investigation Of Combustion Attributes Of Jet Diffusion Flame With Swirlers In A Coaxial Burner  *Sowrish Vijaay S (MIT, Chennai)* | Application Of Machine Learning Algorithm To Predict The Composition Of Ultra-High Strength Steel With Ys>1900Mpa  *Saniya Kumari (IIT, BHU)* |
| 12:40 | Experimental Study On Flame Behaviour Of Lpg-Air Flame In Mini Scale Combustor  *Koushik Samanta (Jadavpur University)* | Investigation The Mechanical Properties Of Hot-Rolled Aluminum Alloy Plate 7075-T651: Insights For Aerospace Application  *Nguyen Tien Quyet (Viettel group)* |
| 13:00 | A Numerical Simulation Of Post-Impact Dynamics Of A Droplet On A Moving Surface  *Arnab Chakraborty (TCS research)* | Topology Optimization And Additive Manufacturing Simulation In Ansys  *Satyen Badakh (IIT, BHU)* |
| 13:20 | **Lunch. Venue**: OL | |

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|  | **Session 20**  **Heat Transfer/Stationary Modules Venue:** OA | **Session 21**  **Machine learning/Controls**  **Venue:** OSR |
| 14:10 | Large Eddy Simulations On Fan-Shaped Film Cooling Hole With The Turbulence Inflow Using Digital Filtered Method  *Seokmin Kim (University of Science and Technology, South Korea)* | Deep Convolutional Neural Network To Predict Mechanical Properties For Random Distribution Of Long-Fiber Composite Materials  *Manas Kishor Thakur (IIT, Ropar)* |
| 14:30 | Theoretical And Mathematical Analysis Of Lift And Drag Characterization For CFD And MDO Applications Of A Diamond Shaped Oblique Wing With A 90-Degree Rotation  *Mohan Suraj Ilapogu* | Design And Development Of A Flight Control System For A V/STOL UAV For Marine Surveillance Applications With Tilt-Wing Mechanism  *Rhythm Mahesh Galrani* |
| 14:50 | Fluid Flow And Heat Transfer Investigation Of Multi-Jet Impingement Under Different Conditions Of Crossflow With Turbulators  *Anurag Yadav (IIT, Roorkee)* |  |
| 15:10 | Vote of Thanks | |
| **Day 3 Technical sessions concluded** | | |
| 16:10 | **Tea Break** | |
| 19:30 | **Dinner. Venue**: OL | |

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