

# Rajalakshmi Engineering College

## Department of Aeronautical Engineering

**2<sup>nd</sup> National Conference on Progresses and Challenges in Aerospace Engineering – 4<sup>th</sup> & 5<sup>th</sup> APRIL 2025**

**ONLINE MODE**

**Day 1(04-04-2025) – Session 1 (10.30 am – 1.30pm)**

**<https://meet.google.com/toi-wssy-tqr?authuser=0&hl=en&hs=203>**

S.No	Time	Paper ID	Title	Authors	Venue
01.	10.30 am to 11.00 am	<b>1571125104</b>	CFD Analysis of a Spiked Blunt Body	Bokam Swathi Sathya Narayanan N	<a href="https://meet.google.com/toi-wssy-tqr?authuser=0&amp;hl=en&amp;hs=203">https://meet.google.com/toi-wssy-tqr?authuser=0&amp;hl=en&amp;hs=203</a>
02.	11.00 am to 11.300 am	<b>1571125747</b>	Aerodynamic Performance Analysis of Blended Wing Body Aircraft Using Supercritical Airfoils	Dr. Inamul Hasan	
03.	11.30 am to 12.00 pm	<b>1571126225</b>	Aerodynamic Performance and Structural Stability Analysis of Dual-Axis Solar Trackers Under Extreme Weather Conditions	Dr. Gautham V	
04.	12.00 pm to 12.30 pm	<b>1571126311</b>	Optimizing Truck Aerodynamics: a Comprehensive CFD Analysis of Vortex Generator Configurations for Enhanced Fuel Efficiency	Nakul V Lesanth K R	
05.	12.30 pm to 1.00 pm	<b>1571125532</b>	Investigation of Aerodynamic Characteristics of Grid Fins at Subsonic, Transonic and Supersonic Flow	Priya	
06.	1.00 pm to 1.30 pm	<b>1571125086</b>	Computational and Experimental Investigation of a FishBAC Morphing Wing Based on NACA 4412		

## Propulsion Panel

<https://meet.google.com/jfo-xgsk-dxf?authuser=0&hl=en&hs=203>

S.No	Time	Paper ID	Title	Authors	Venue
01.	10.30 am to 11.00 am	1571125556	Review on Various Techniques Opted for Increasing Combustor Efficiency	Gudiwada Win Shalem Raja Vaydeesh Kumar . Muvvala Raja Mohamed Nawfal U Adhiraj Patil Win Shalem Raja	<a href="https://meet.google.com/jfo-xgsk-dxf?authuser=0&amp;hl=en&amp;hs=203">https://meet.google.com/jfo-xgsk-dxf?authuser=0&amp;hl=en&amp;hs=203</a>
02.	11.00 am to 11.300 am	1571125559	A Novel Design of Pylon-Based Scramjet Combustor	Krishan Kumar Madhukar	
03.	11.30 am to 12.00 pm	1571126569	Pushing the Limits: the Future of Supersonic Flight with Ramjet Engines	Lokesh Sapra	
04.	12.00 pm to 12.30 pm	1571126588	Natural Evaporation of Acoustically Levitated Multicomponent Droplets	Gangalakurthi Nikhil Venkata Krishna Shaik Vazid Anantha Purantheswari	

## Structures and UAV Panel

<https://meet.google.com/fhg-xxma-dvx?authuser=0&hl=en&hs=203>

S.No	Time	Paper ID	Title	Authors	Venue
01.	11.00 am to 11.30 am	1 571125530	From Nano-Structures to Flight Structures: a Comparative Multi-Scale Simulation Study of CNT-Enhanced Adhesive Performance in Aerospace Joints	Manjunath Potlapalli	<a href="https://meet.google.com/fhg-xxma-dvx?authuser=0&amp;hl=en&amp;hs=203">https://meet.google.com/fhg-xxma-dvx?authuser=0&amp;hl=en&amp;hs=203</a>
02.	11.30 am to 12.00 pm	1571126234	Thread-Integrated Analysis for Reliable Aircraft Fastener Life Prediction	Mr. Suhail Ahmed	
03.	12.00 pm to 12.30 pm	1571124243	Advance Noise Reduction Strategies in eVTOL Multicopter Aircrafts for Urban Air Mobility	Precious Stella Fidelis Mugasha Ayinwi Sobo	
04	12.30 pm to 1.00 pm	1571124901	Systematic Review of Advanced and Pre-Existing Machine Learning Approaches in the Field of Aerospace	Muvvala Vaydeesh Kumar Gudiwada Win Shalem Raja	

