

Rajalakshmi Engineering College

Department of Aeronautical Engineering

2nd National Conference on Progresses and Challenges in Aerospace Engineering – 4th & 5th APRIL 2025

Offline Mode

Day 1(04-04-2025) – Session 1 (11.00 am – 12.30pm)

Aerodynamics Panel

| S.No | Time | Paper ID | Title | Authors | Venue |
|------|----------------------|------------|---|-------------------|--------------|
| 01. | 11.00 am to 11.30 am | 1571123880 | Numerical Study of Modification of Nose Cone Length on X-59 Supersonic Aircraft at Different Mach Number | Janani | Seminar Hall |
| 02. | 11.30 am to 12.00 pm | 1571126204 | Numerical Investigation on Parametric Optimization of Vertical Axis Wind Turbine Blade for Enhanced Performance Using Eppler Series Airfoil | Venkatesh S | |
| 03. | 12.00 pm to 12.30 pm | 1571123820 | Numerical Investigations of Aerodynamic Performance Enhancement of NACA 0012 Airfoil Using Passive Control Technique - Multi-Slotted Design | Mithra Darshini S | |

Space & UAV Panel

| S.No | Time | Paper ID | Title | Authors | Venue |
|------|----------------------|------------|---|---|--------------------|
| 01. | 11.00 am to 11.30 am | 1571124076 | Design and Develop of 1U CubeSat | MehulKumar Patel | Aero Block Room No |
| 02. | 11.30 am to 12.00 pm | 1571125514 | Hybrid Tethered-Autonomous Hexacopter for Continuous Surveillance and Dynamic Threat Response | Shajakhan R Abdullah Yaseer S.S A Shabbeer Sharieff | |
| 03. | 12.00 pm to 12.30 pm | 1571125465 | Clearing the Cosmic Clutter: Emerging Technologies in Space Debris Management | Thirupthika G G | |

Structures Panel

| S.No | Time | Paper ID | Title | Authors | Venue |
|------|-------------------------|-------------------|---|--|-------------------------------|
| 01. | 11.00 am to 11.30 am | 1571125635 | Computational Studies on Hybrid Composites Subjected to Bird Impact | Abishek S | Aero Block Room No |
| 02. | 11.30 am to 12.00 pm | 1571125657 | Vitrimer Composites: a Sustainable Approach to Smart and Adaptive Materials | Sri Varun Nelluri Shaik Sharukh Chikkam Samuel | |
| 03. | 12.00 pm to 12.30 pm | 1571125651 | Exploring the Role of Halloysite Nanotubes in Improving Carbon Fiber Reinforced Composite Performance Across Diverse Temperatures | Yamini S Kaviyan M | |
| 04. | 12.30 pm to 1.00 pm | 1571128436 | Preliminary Study on High Velocity Impact Response of Corrugated Composite Panels with Varying Cross-Sectional Foam | Aishwarya A | |