

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

17.12.2025

Submitted to the Principal,

Sub- A Report on "Drone Dynamics: Mechanical Design, Electronics & Intelligent Systems" held from 04.12.25 to 05.12.25".

The Center of Excellence for Drone Innovation and Technology, the Department of Electronics and Communication Engineering have jointly organized 2 Days Hands on workshop on "Drone Dynamics: Mechanical Design, Electronics & Intelligent Systems" for the second-year of Electronics and Communication Engineering department from 4th December 2025 to 5th December 2025.

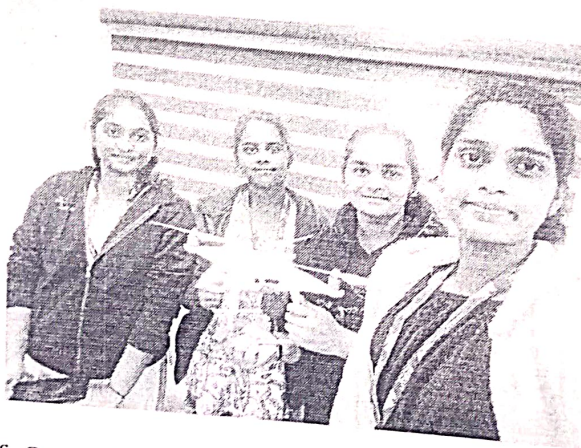
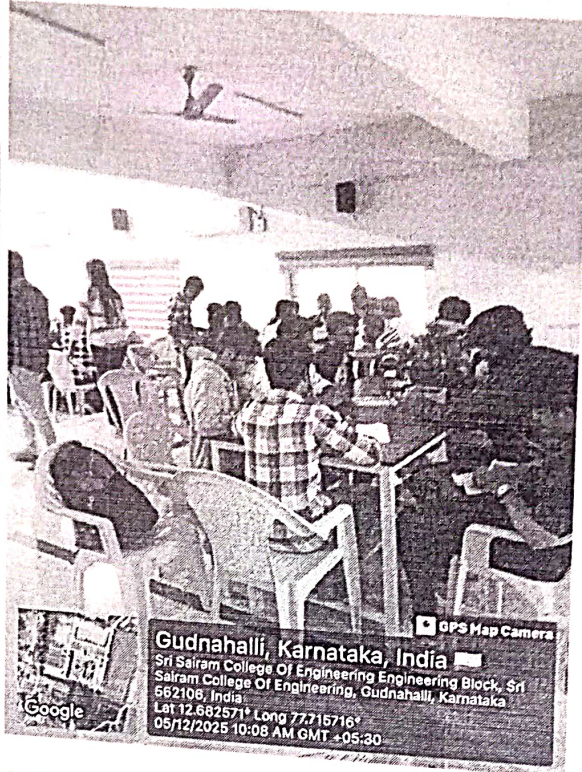
The resource persons for the program were **Mr. P. Surendar and his team**. Mr. P. Surendar is a seasoned professional with 15 years of combined industry and academic experience. He currently serves as the **Manager at Aero Knotz Drones India Private Limited, Chennai**. With five years of strong hands-on experience as a mechanical engineer, he now leads a dynamic team at Aero Knotz Drones, where he effectively applies his engineering expertise to the development and production of advanced drone technologies.

Mr. P. Surendar, Manager of Aero Knotz Drones India Private Limited, also addressed all the students and briefed them about the applications of Drones to the students.

The first day of the Hands-on Training, held on 04.12.25, began with an inaugural program in the Seminar Hall, followed by a seminar session in the same venue. In the morning session Resource person addressed the participants with a comprehensive understanding of drone technology. The session covered fundamental aspects of mechanical design, including frame structure and propulsion systems, along with detailed discussions on electronic components such as flight controllers, sensors, and power management. He also gave brief explanation about intelligent systems used in drones, focusing on control, stabilization, and basic autonomous functions. In the afternoon, students were divided into groups of five to six and commenced the hands-on activities.

On the **second day, 05.12.25**, the workshop continued with a full-day hands-on session in the Seminar Hall, where the team engaged with each student batch and guided them through the process of drone assembly. On both afternoons of Day 1 and Day 2, separate student batches were taken to the college grounds for the drone flying session

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



About, 81 students of Second-year of Electronics and Communication Engineering were participated in this workshop.

A Valedictory function was conducted on the second day evening (05.12.25) and certificates for the participants were distributed.

*[Signature]*  
 17/12/25  
 Co-ordinator

*[Signature]*  
 15/12/2025

*[Signature]*  
 17/12/25  
 HOD/ECE

*[Signature]*  
 17/12