

## **Department of Electrical and Electronics Engineering Drone Club**

**Shaping the Future of UAV Innovation through Student Projects, Research, and Industry Collaboration.**

### **Vision Statement**

The Drone Club of the Department of Electrical and Electronics Engineering envisions becoming a center of excellence in **UAV research, design, and applications**. The club focuses on equipping students with advanced technical skills in drone mechanics, programming, and autonomous systems, while fostering innovation through industry collaborations, MoUs, and value-added courses. By integrating academic learning with hands-on projects, hackathons, and real-world problem-solving, the club prepares students for emerging applications in **agriculture, healthcare, surveillance, and smart infrastructure**, thereby aligning with the future needs of the UAV industry and society.

### **Faculty Coordinators:**

- **Dr. Vimala Kumari J**, Assistant Professor, Dept. of EEE
- **Mrs. B. Swarupa Rani**, Assistant Professor, Dept. of EEE

### **Student Coordinators**

- **Club President:** P. Naveen Kumar (228W1A0240)
- **Club Secretary:** P. Rohith (248W5A0219)
- **Club Secretary (Girls):** P. Gayathri (238W1A0297)

### **Key Achievements and Activities**

- **Memorandums of Understanding (MoUs):**
  - Signed with Garuda Aerospace Pvt. Ltd. on 09/08/2024.
  - Signed with Dronehub Technologies Pvt. Ltd. on 23/03/2025.
- **Workshops and Value-Added Courses:**
  - Four-day Value-Added Course on Drone Dynamics and Flying in association with Garuda Aerospace, Chennai (09–12/11/2024).
  - Five-week Value-Added Course on Drone Technology with participation from 50 students across EEE, ECE, and ME.
  - Two-day National-Level Workshop on Aerial Drone Technology with 63 participants mastering advancements in UAV applications.

- **Hackathons and Competitions:**

- Amaravati Drone Hackathon 2024 (18–19/10/2024) – participation by Dr. Vimala Kumari J and student team.

- Drone Fusion Hackathon (03–04/04/2025) – 43 teams registered under 9 themes, showcasing innovative UAV solutions.

- **Student Projects and Innovations:**

- Development of Power Transmission Line Survey Drone.

- Development of Weather Forecasting Drone.

- **Internships and Placements:**

- 10 students secured paid internships at Garuda Aerospace, IIT Tirupati, and Softouz Solutions.

- 3 students placed in drone-related industries, including Garuda Aerospace, Nimishree, and Coromandel Pvt. Ltd.

- **Industry Exposure and Training:**

- Students attended the Centre of Excellence (COE) Training Program by Garuda Aerospace, Chennai (12–18/05/2025).

### Faculty Achievement

Dr. Vimala Kumari J has been awarded a prestigious Post-Doctoral Fellowship at IIT Tirupati Navavishkar I-Hub Foundation (IITTNiF), further strengthening the department’s research credentials and contributing to the Drone Club’s vision of combining academic excellence with industry-driven innovation.

### MoUs:



## MEMORANDUM OF UNDERSTANDING

Between



**SIDDHARTHA ACADEMY OF HIGHER EDUCATION**  
(Deemed to be University)  
Vijayawada -520007

&



**DroneHub Technologies Pvt Ltd**  
Vijayawada - 521139

March 2025



**Department of Electrical & Electronics Engineering**  
Velagapudi Ramakrishna School of Engineering **SIDDHARTHA**  
**ACADEMY OF HIGHER EDUCATION**  
**Deemed to be University**

Sponsored by Siddhartha Academy of General and Technical Education  
Vijayawada, Andhra Pradesh-520 007  
Phone 0866 2582333, www.vrsiddhartha.ac.in

## Photo Gallery:



Figure: 1 Drone Club



Figure: 2 Basic Flight operations



Figure: 3: Real-time flying



Fig. 4 UAVs of various themes in Hackathon



Fig. 5 Student Participation at different venues



Fig. 6. Volunteers explained the rules to the participants



Fig. 7 Payload delivery competition



Fig. 8 Prize Distribution



Fig. 9 Prize Distribution



Fig. 10 Drone Club

## PRIZE WON BY THE CLUB IN SRM UNIVERSITY



## Research Experience:

1. Mandala Raga Sri Ratna Sai Ramya, **Vimala Kumari J**, Yarajarla Moulika and Venkateswara Rao Bathina, “Unmanned Aerial Vehicles to transport healthcare equipment under Emergency” The International Conference on Intelligent Computing and Emerging Communication Technologies (ICEC-2024) organised by SRM University-AP, India.
2. Ayisha Firdos Mohammad, **Vimala Kumari J**, Sravya Katam and Venkateswara Rao Bathina, “Petal copter used to drop flowers on honoured guests during formal occasions”, IEEE SILCON-2024 organized by NIT, Agartala, India.