MITS
MADANAPALLE

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

DEEMED TO BE UNIVERSITY

(Declared Under section 3 of UGC Act, 1956 by Govt. of India - MoE)

A

Report on Domain talk

Drone Eco system in Indian Scenario

Organized by

Drone Technology club

on 15-09-2025

Submitted by: P Mohammed Rizwan Ali

Organized by: Drone Technology Club under Student activity center

Student Coordinators Details: R Arshad, M Veeresh, S. Thaheer, P Zuber

Venue: KK block -008

Time: 3:00 -5:00 PM

Report Received on: 25-09-2025

Mode of Conduct: Offline

Attendees Count: 40

Objectives:

- Understand the Current Drone Landscape in India
- Analyze Government Policies and Regulatory Framework
- Identify Challenges and Opportunities
- Envision the Future of India's Drone Ecosystem

Workshop Overview:

The Domain talk on "Drone Eco system in Indian Scenario" was conducted by the Drone Technology club under student Activity center(SAC) for Drone Technology Enthusiasts at MITS on 25-09-2025, 3:00-5:00 PM at KK Block -008 . The main objective of this talk was to equip students with a clear picture and update on trends in drone sector. My self P Mohammed Rizwan Ali, Assistant Professor in the department of Mechanical Engineering and faculty coordinator for Drone Technology Club was the speaker for the session.40 students from various departments attended the session and gained valuable insights regarding Drone sector.

The program was formally started with an introduction related to the sector and speaker by Mr. Thaheer- Drone Technology Club Student coordinator, later handed over the session to the speaker. The talk provided a detailed analysis of the current state and future prospects of the drone industry in India. It highlights the growing significance of drones across sectors such as agriculture, defense, logistics, infrastructure, and disaster management. With government initiatives like the Production Linked Incentive (PLI) scheme and liberalized drone rules and ecosystem in India. The discussion also addressed challenges such as limited airspace integration, concerns around privacy and surveillance, and the need for standardized certification and testing processes. Emphasis was placed on developing indigenous drone technologies and strengthening student innovation in this area.

The major Proportion of the talk was focused on critical role of drone piloting and the certification of Remotely Piloted Aircraft Systems (RPAS) according to the Indian Standards for safe and professional drone operations. A clear idea was given to students how drone piloting opens up new pathways to explore entrepreneurship and employment early on, how certified drone pilots are in growing demand across various industries, and students with piloting skills can take on freelance projects or internships that provide real-world exposure and income opportunities. The session concluded with a demo of Drone flying procedure.


Annamayya,Andhra Pradesh,India
Kurabalakota, Annamayya, Andhra Pradesh 517326, India
Lat 13.630924, Long 78.477956
09/15/2025 03:11 PM GMT+05:30
Note : Captured by GPS Map Camera


Annamayya,Andhra Pradesh,India
Kurabalakota, Annamayya, Andhra Pradesh 517326, India
Lat 13.630865, Long 78.478018
09/15/2025 03:22 PM GMT+05:30
Note : Captured by GPS Map Camera

Outcomes:

- Participants gained knowledge and recall key facts about India's drone policies, such as the Drone Rules 2021.
- Attendees are able to explain the various applications of drones in sectors like agriculture, defense, and logistics within the Indian context.
- Participants are able to identify suitable drone technologies for specific industry challenges, such as precision farming or infrastructure inspection.
- Participants explored the procedure of flight with safety protocols.

----------END OF THE REPORT----------

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A

Report on Interactive session On

Flight With Responsibility-Drone Safety Protocols

Organized by

Drone Technology club

on 06-01-2026

Submitted by: P Mohammed Rizwan Ali

Organized by: Drone Technology Club under Student activity center

Student Coordinators Details: S Mohammad Thaheer, Syed Salam, S Chand Thousif.

Venue: Seminar -A

Time: 10:00 AM to 12:30 PM

Report Received on: 07-01-26

Mode of Conduct: Offline

Attendees Count: 59

Objectives:

Objectives:

- To educate students on the fundamental definitions and distinctions between UAVs, UAS, and Drones.
- To provide a comprehensive understanding of the **Drone Rules 2021** and the regulatory framework established by the **DGCA** (Directorate General of Civil Aviation).
- To familiarize participants with the legal requirements for **drone registration (UIN)**, **Remote Pilot Certification (RPC)**, and the **Digital Sky Platform**.
- To create awareness about **Airspace Zones** (Green, Yellow, Red) and safety protocols to ensure responsible flying.
- Future opportunity's for students in Drone sector .
- Flight With Responsibility-Drone Safety Protocols.

Workshop Overview:

The interactive session titled “Flight With Responsibility - Drone Safety Protocols” was conducted by the Drone Technology Club under the Student Activity Center (SAC) at MITS. The program was formally started with an introduction regarding the significance of the session and the guest speaker by *P.Gowri Kowshitha*, who later handed over the proceedings to the resource person. The session provided a detailed analysis of the fundamental concepts of unmanned aviation, defining key terms such as UAV (Unmanned Aerial Vehicle) and UAS (Unmanned Aircraft System). It highlighted the critical role of the Directorate General of Civil Aviation (DGCA) and the Drone Rules 2021 in establishing a liberalized yet regulated ecosystem for drone operations in India.

The talk provided deep insights into the technical and legal classifications of drones, ranging from Nano (<= 250g) to Large (> 150Kg) categories. The discussion also addressed the mandatory compliance requirements, specifically the usage of the Digital Sky Platform for registration. The speaker explained the importance of the Unique Identification Number (UIN), which acts as a license plate for drones, and the necessity of obtaining a Type Certificate (TC) for specific models. Emphasis was placed on the transition of India's aviation environment into a business-

friendly hub while maintaining strict safety standards through self-certification and non-intrusive monitoring.

The major proportion of the talk was focused on the practical safety protocols essential for every pilot, specifically the Airspace Zones mapped by the DGCA. A clear explanation was given regarding the Green Zone (free to fly), Yellow Zone (controlled airspace requiring ATC permission), and Red Zone (no-fly zones near airports and vital installations). The session further elucidated the eligibility and process for obtaining a Remote Pilot Certificate (RPC), highlighting that certified drone pilots are in high demand for commercial applications like agriculture, mining, and disaster management. The session concluded with the motto "Fly Legal, Fly Safe," encouraging students to pursue careers in the drone sector with a strong sense of ethical responsibility.


GPS Map Camera
Kurabala Kota, Andhra Pradesh, India
Jfhh+vp2, Kurabala Kota, Andhra Pradesh 517326, India
Lat 13.629326° Long 78.478971°
Tuesday, 06/01/2026 10:49 AM GMT +05:30
Google


Kurabala Kota, Andhra Pradesh, India
Google


GPS Map Camera
Madanapalle, Andhra Pradesh, India
Kadiri Road Angallu, Village, Madanapalle, Andhra Pradesh 517326, India
Lat 13.629349° Long 78.478923°
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GPS Map Camera
Kurabala Kota, Andhra Pradesh, India
Jfhh+vp2, Kurabala Kota, Andhra Pradesh 517326, India
Lat 13.629361° Long 78.479007°
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Kurabala Kota, Andhra Pradesh, India
1-78, Kurabala Kota, Andhra Pradesh 517326, India
Lat 13.631395° Long 78.479563°
Tuesday, 06/01/2026 12:17 PM GMT +05:30
Google


Kurabala Kota, Andhra Pradesh, India
1-78, Kurabala Kota, Andhra Pradesh 517326, India
Lat 13.631294° Long 78.479477°
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Outcome of the Event:

By the end of the session, the students were able to:

1. **Remember (BL1):** The different categories of drones (Nano, Micro, Small, etc.) and airspace zones (Green, Yellow, Red).
2. **Understand (BL2):** The importance of the Digital Sky Platform and the legal necessity of the Unique Identification Number (UIN).
3. **Apply (BL3):** The knowledge of forms (D-1, D-2, D-3,D-4,D-5) for proper drone registration and certification processes.
4. **Analyse (BL4):** The safety protocols required for different industry applications, ensuring "Flight with Responsibility".
5. **Evaluate (BL5):** The eligibility and procedure for obtaining a Remote Pilot Certificate (RPC) for a career in the drone industry.

----------END OF THE REPORT----------