

Maharaja Surajmal Institute of Technology, New Delhi-110058

Department of Electronics and Communication Engineering (ECE)

Technical Session Report

Event Agenda	Workshop on "Drone Technology"
Speaker	Mr. Khushal Bansal
Date and Time	16-09-2026, 10 am onwards
Venue	206, Seminar Hall, MSIT
Target Audience	B.Tech Students, Department of ECE
Organized by	Department of Electronics and Communication Engineering (ECE), Maharaja Surajmal Institute of Technology

Introduction

The Department of Electronics and Communication Engineering (ECE), Maharaja Surajmal Institute of Technology (MSIT), organized a workshop on “Drone Technology”, conducted by Mr. Khushal Bansal. The session introduced students to the fundamentals of drone technology, its real-world applications, and its future possibilities.

The workshop was held on 16th September 2026 at the Seminar Hall (Room 206), MSIT, and was attended by students of the ECE department.

About the Speaker

Mr. Khushal Bansal is an Electronics & Communication Engineer from MSIT with a background spanning embedded systems, IoT, and UAV/drone engineering. His areas of expertise include:

- Embedded Systems Engineer
- Research and Development Engineer @ Aerodrone Robotics
- IoT | UAV & Drone Engineer
- PCB Design | ESP32 • STM32
- Drone Pilot

Objective of the Session

- To introduce students to the fundamentals and working principles of drone technology.
- To explore real-world applications of drones across industries such as agriculture, surveillance, logistics, and disaster management.
- To provide students with a live demonstration of how a drone operates and functions.
- To discuss the future scope and emerging innovations in the field of drone technology.

Key Topics Covered

- Basics and Working Principles of Drones
- Types of Drones and their Components
- Applications of Drone Technology (Agriculture, Surveillance, Logistics, Disaster Management)
- Future Scope and Emerging Trends in Drone Technology

- Live Demonstration of Drone Flight and Operation

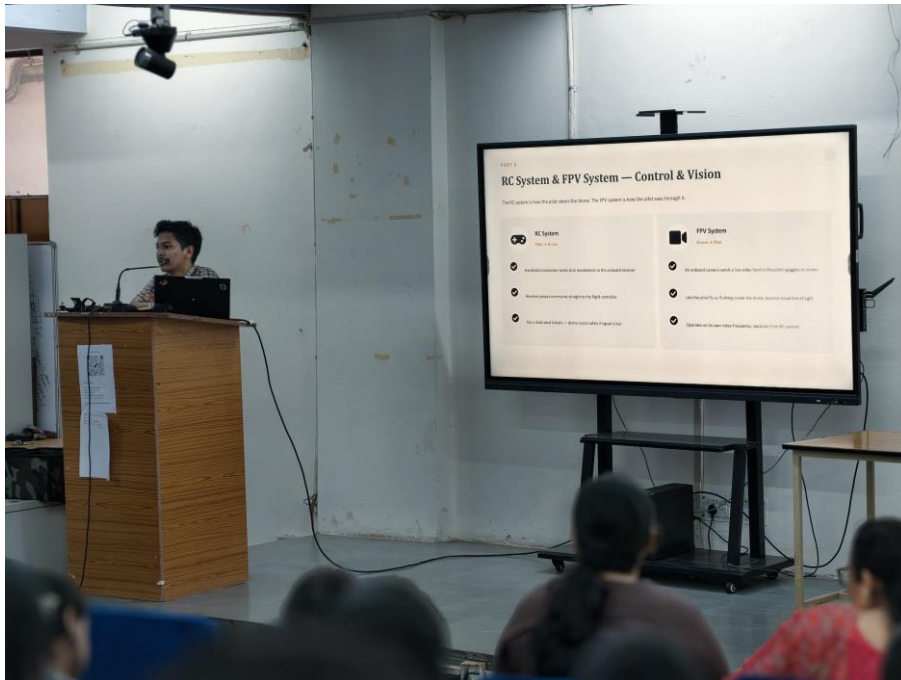


Mr. Khushal Bansal explaining the ESC, Motor & Propeller thrust group to the audience

Session Overview

Mr. Khushal Bansal began the session by explaining the basic working principles of drones, covering their key components and the different types of drones used across industries. He then walked students through the wide-ranging applications of drone technology, including its growing role in agriculture, surveillance, logistics, and disaster management.

He further spoke about the future possibilities of drone technology, encouraging students to explore it as an emerging and rapidly evolving field of engineering with significant scope for innovation and research.



Mr. Khushal Bansal presenting the RC System & FPV System — Control & Vision segment

Live Demonstration

A key highlight of the session was a live demonstration conducted by Mr. Khushal Bansal, who brought his own drone to show students how it actually works. He walked the students through the drone's components and controls and demonstrated its flight and operation in real time, giving the students a hands-on and practical understanding of the concepts discussed during the talk.



Mr. Khushal Bansal demonstrating the drone's components and controls to students

Student Interaction

The session saw active participation from the students, who engaged with the speaker through questions on the working of drones, their applications, and career opportunities in the field. The live demonstration further encouraged students to interact closely with the speaker and clarify their doubts firsthand.



Mr. Khushal Bansal interacting with students during the session

Vote of Thanks

The session concluded with a formal vote of thanks extended to Mr. Khushal Bansal for such an informative and insightful session on Drone Technology. He was thanked for sharing valuable information that helped students understand the applications and future possibilities of drone technology, and for his time, effort, and expertise in making the session so engaging and informative. The students were noted to have gained a lot from the session, and gratitude was expressed once again to the speaker for being with the department and sharing his valuable knowledge.

Felicitation

Following the vote of thanks, Dr. Sudesh Pahal, HOD, ECE Department, was invited to come forward and felicitate the esteemed speaker, Mr. Khushal Bansal, with a memento as a token of gratitude and appreciation.

Conclusion

The Technical Session on “Drone Technology” conducted by Mr. Khushal Bansal proved to be an informative and engaging experience for the students of the ECE department. It gave students a strong conceptual understanding of drone technology and its applications, while the live demonstration provided valuable hands-on exposure and made the session all the more memorable.

Acknowledgment

We extend our sincere gratitude to Mr. Khushal Bansal for conducting this insightful workshop and sharing his expertise and time with the students. We also thank Dr. Sudesh Pahal, HOD, ECE Department, for gracing the occasion and felicitating the speaker.

HOD, Department of ECE

Dr. Sudesh Pahal