

**JAYPEE UNIVERSITY OF INFORMATION  
TECHNOLOGY**



**WAKNAGHAT, P.O. – WAKNAGHAT,**

**TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)**

**PIN – 173234 (INDIA) Phone Number- +91-1792-257999**

(Established by H.P. State Legislature vide Act No. 14 of 2002)



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## **REPORT**

### **Two Days Capacity Building Workshop on Drone Technology: Fundamentals and Flying Practice**

A **two-day Capacity Building Workshop on “Drone Technology: Fundamentals and Flying Practice”** was organized by the **Department of Electronics and Communication Engineering (ECE), Jaypee University of Information Technology (JUIT), Waknaghat**, on **21–22 February 2026** at the **Drobotics Lab**, in collaboration with **Garuda Aerospace**. The workshop aimed at strengthening technical knowledge and promoting **Entrepreneurship, Innovation, Design Thinking, Startup culture, and IPR awareness** in the rapidly growing UAV sector.

The workshop was conducted by professional drone pilots and technical experts from **Garuda Aerospace**, who provided in-depth insights into the **fundamentals of Unmanned Aerial Vehicles (UAVs)**, including drone architecture, propulsion systems, flight control mechanisms, communication protocols, and regulatory compliance under DGCA guidelines. Special emphasis was given to **Agriculture Drone Innovation**, focusing on precision farming, crop monitoring, pesticide spraying automation, and sustainable agricultural practices. Students explored how drone technology is transforming agri-tech startups and enabling scalable entrepreneurial solutions.

Experts also introduced **FPV (First Person View) Drone Design**, explaining structural components such as flight controllers, ESCs, telemetry systems, cameras, GPS modules, and battery management systems. The session highlighted opportunities for **startup incubation, product design innovation, and intellectual property rights (IPR)** in drone hardware and software development. Live flying demonstrations and hands-on practice sessions enabled participants to observe calibration, take-off,

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hovering, maneuvering, and landing procedures. Maintenance protocols, safety standards, troubleshooting techniques, and operational best practices were also demonstrated.

Interactive discussions covered:

- Drone certification pathways
- Regulatory policies and airspace management
- Emerging drone markets
- Startup ecosystem opportunities
- Patent filing and IPR protection in UAV design

The workshop successfully bridged the gap between theoretical learning and real-world industrial applications. It encouraged students to think beyond academics towards **Innovation-driven Entrepreneurship and Technology-based Startups**, reinforcing the university's commitment to experiential learning and industry collaboration.

The poster features logos of JUIT, Techno Edge, and other institutions at the top. The main title is '2-Days Capacity Building Workshop on Drone Technology' with the subtitle 'Fundamentals and Flying Practice' and dates '21 - 22 FEB 2026'. A central image shows a white drone flying against a blue sky. Below the drone, the text 'Engineering the Future of Flight' is written. The poster lists workshop highlights, content focused on, and keynote speakers.

**2-Days Capacity Building Workshop on Drone Technology**  
Fundamentals and Flying Practice  
21 - 22 FEB 2026

*Engineering the Future of Flight*

**WORKSHOP HIGHLIGHTS**  
Drone Flight Simulation Training  
Flight Controller Setup & Parameter Tuning  
Pre-Flight Inspection & Safety Checks  
Complete Drone Calibration Demonstration

**CONTENT FOCUSED**  
FPV Drone Technology  
Thermal Imaging Drone Systems  
Agricultural Drone Operations

**KEYNOTE SPEAKER**

**Ankit Saini**  
PILOT  
Garuda aerospace

**Rajat kumar**  
PILOT  
Garuda aerospace

**VENUE: DROBOTICS LAB (ECL7)**  
JUIT Wagnaghat

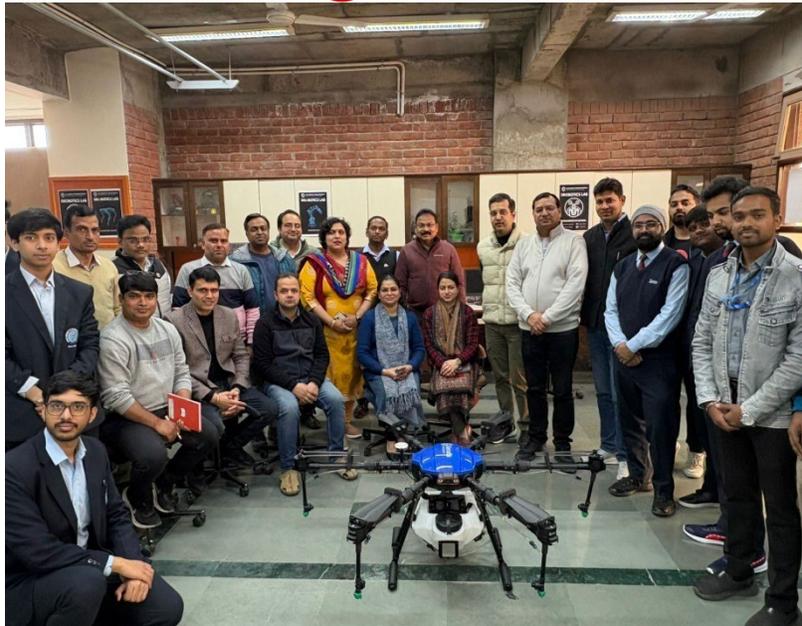
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