

Delhi Public School Knowledge Park – V

Greater Noida (West)

Date: September 12, 2025
DPSKP-V/2025-26/Circular/157

CIRCULAR

INVITATION

AIRCRAFT DESIGN & ADVANCED DRONE (AIR TAXI) WORKSHOP (Classes 9 to 12)

Dear Parents,
Greetings!

Under the visionary leadership of Hon. Prime Minister Shri Narendra Modi, the Government of India has launched transformative reforms to advance the space sector. These initiatives focus on promoting space education, research, and development across the nation. In this regard, The Bharat Space Education and Research Centre (भारत अंतरिक्ष शिक्षा अनुसंधान केंद्र), is spearheading efforts to foster talent, drive cutting-edge research, and promote innovation in the space domain.

This workshop is designed to benefit Research Scholars and Students by enhancing their understanding of aircraft design principles, aerodynamic fundamentals, performance analysis, and configuration layout through interactive sessions.

The workshop will conduct in online mode on the following days

1) AIRCRAFT DESIGN TECHNOLOGY WORKSHOP

Date:- 14th September 2025

Mode : Online

Workshop Duration: 180 min (3 Hrs)

Time :- 2:00 pm to 5:00pm

Contents covered in the workshop:

Understand the aircraft design process from concept to preliminary sizing:

- Analyze aerodynamic forces (lift, drag) and airfoil performance.
- Explain standard atmosphere and flight velocities.
- Identify and apply aircraft components and nomenclature in design discussions.
- Perform basic wing geometry calculations.
- Determine thrust and power requirements for different flight regimes.
- Apply range and endurance equations for performance analysis.
- Understand stability & equilibrium principles for flight safety.
- Participate in practical flight demonstration & conceptual experiment.

2) ADVANCED DRONE (AIR TAXI) WORKSHOP !

Date :- 21st September/ 12th October 2025 (Choose any one as the contents are same)

Mode : Online

Workshop Duration : 180 min (3 Hrs)

Time :- 2:00 pm to 5:00pm

Content covered in Workshop

✚ Topics Covered:

- ◆ **ISR Drones – Intelligence, Surveillance & Reconnaissance drones like IAI Heron & IAI Searcher**
- ◆ **Kamikaze Drones – Suicide drones like Harpy, Harop, and SkyStriker used in Operation Sindoor**
- ◆ **UCAVs – Unmanned Combat Aerial Vehicles capable of both surveillance and missile/bomb attacks**
- ◆ **Swarm Drones – AI-powered drone groups that coordinate like birds or bees**
- ◆ **Logistics Drones – Used to deliver weapons, food, and medical supplies in war zones**

3) 3-Day Advanced Drone (Air Taxi) Workshop

Three-day session covering in-depth content. (3rd, 4th & 5th October, 2025).

Mode : Online

Timings : 2:00 PM- 5:00 PM

Workshop Duration : 180 min (3hrs)

Strengthen Collaborative Frameworks: Facilitate partnerships to drive research, development, and deployment of Advanced Drone (Air Taxi) & Space Education ecosystems.

Interested students can get themselves registered for the above paid workshops through the links mentioned below

- **Date of registration for the Aircraft Design Workshop (वायुयान डिजाइन कार्यशाला)**
14th September, 2025
Link : <https://forms.gle/scpPq9h4bJMY5T6e6>
- **Date of registration for the Advanced Drone (Air Taxi) Technology Workshop:**
21st September, 2025/ 12th October 2025
Link : <https://forms.gle/tR2txBy5eSgr7ztE7>
- **Dates of Advanced Drone (Air Taxi) Technology 3- Day Programme:**
3rd, 4th & 5th October, 2025
Link : <https://forms.gle/jgoqcMuve77LVYjZA>


Principal