

Drone Summer Camp

For Grade:
6th to 12th

Elevate with
Innovation

Your **Drone Journey**
Takes Flight



Who we are?

Founded in 2019 by IIT Delhi alumni and professors, Rancho Labs is committed to sparking student interest in technology through **hands-on learning** in **AI, Coding, and Robotics**. Backed by IIT Delhi's Technology Innovation Hub, we've earned the trust of **10,000+ parents** and **innovators** worldwide with our impactful programs.



4.9/5

Average Rating by
Parents



10 +

Research Papers
Written



700 +

Innovations
Projects



50 +

Competition
Winners



***"From wonder to wisdom
Rancho Labs leads the way!"***



About Program

In this program, students explore the world of flight through hands-on projects. From building paper airplanes to **3D printing** drone frames, they learn key concepts of **aerodynamics**, **drone mechanics**, and **flight testing**—culminating in a thrilling drone racing challenge.



Learning Outcomes



Understand basic principles of **aerodynamics** and **drone flights**.



Learn to **design, build,** and **fly** different types of drones.



Develop skills in **3D design, CAD tools,** and **slicing software**



Strengthen **creativity, problem-solving,** and **engineering thinking**.



Learn **drone control, stabilization,** and **maneuvering techniques** for precision flying.



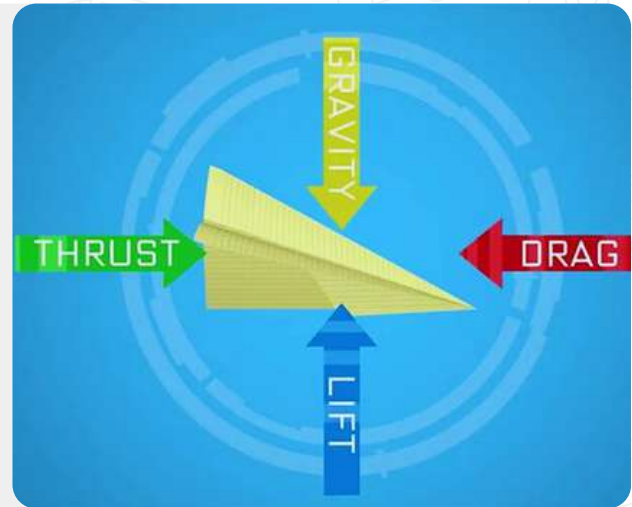
Camp Schedule

(2 hours each)

Session 1

Paper Airplane

- Overview of drones
- Drones vs Planes & Helicopters
- Components & Aerodynamics
- Key Elements & Aero Basics



Session 2

Balsa Wood Glider

- Glider & Flight Basics
- Balsa Wood & Its Properties
- Shaping & Sanding Techniques
- Glider Launch & Testing



Session 3

Building an MDF Drone

- Drone movement: roll, pitch, yaw
- Frame & Material Properties
- Assembly and painting
- Basic flight testing



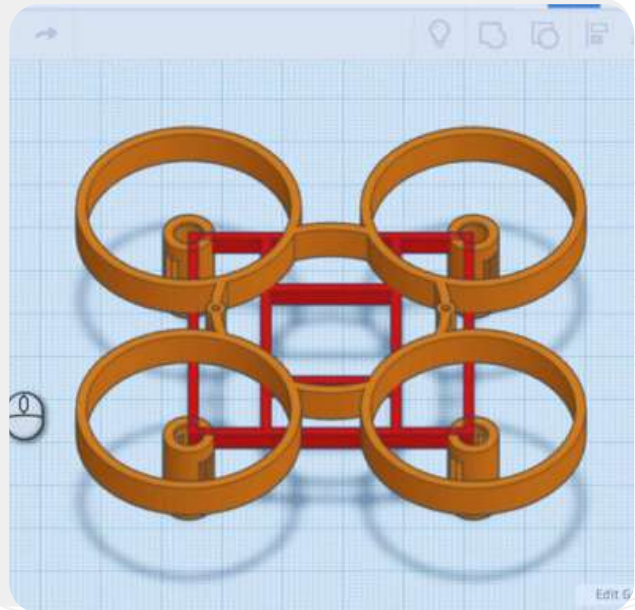
Camp Schedule

(2 hours each)

Session 4

3D Drone Frame Design

- Intro to 3D Design & Tools
- Drone Frame Design
- Intro to Slicer Software & G-code
- 3D Printing Live Demo



Session 5

Build & Fly 3D-Printed Drone

- Building a 3D-printed drone
- Flight Pathing & Obstacle Avoidance



Session 6

Convocation & Drone racing challenge

- Flight & Competition Prep
- Drone Racing Participation
- Showcasing Drone Mastery



Certificate of Completion



Certification by **Rancho Labs** &
**Technology Innovation Hub of
IIT Delhi**





RANCHO LABS



Backed by
IHFC, IIT Delhi

Locations & Fee Structure



Offline Fee: Rs.15,000/-



IIT Delhi, Hauz Khas



DLF Phase 1, Gurugram

Online Early
Registration

Discount
20%

Parents who register
their child early get a
20% discount.

[Get Started](#)

Offline Early
Registration

Discount
16.66%

Parents who register
their child early get a
16.66% discount.

[Get Started](#)

Club 1

Discount
20%

Those who club one
camp with any other
camp will be eligible
for a 20% discount.

[Get Started](#)

Sibling or Referral
Discount

10% off



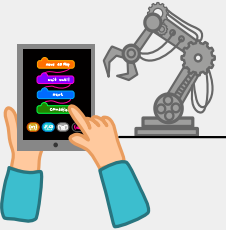


Discover more Programs



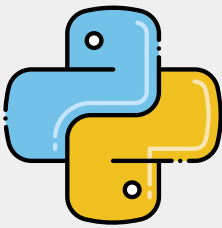
Game Development Camp

For Grade 3- 5 | 6- 12



Robotics Summer Camp

For Grade 2-12



Python Programming Summer Camp

For Grade 6-12



Web Development Camp

For Grade 6-12



Proof of Excellence



I am incredibly grateful to Rancho Labs and the entire team for providing such an engaging and inspiring robotics program for young minds. My daughter, Ivana Gupta, has truly enjoyed every session. The hands-on learning, the practical exposure, and the encouraging teaching style have sparked a genuine interest for technology in her.

It's been heartening to see her excitement after each class and the confidence she has gained. Thank you for nurturing curiosity and laying such a strong foundation for the future.



Neha Gupta

Mother of Ivana Gupta

Director, PwC India



Proof of Excellence



My son Rinawma, 12 years, is a special needs child. I am so happy to enroll him in Rancho Lab's Robotics class. He enjoys the classes by Dhananjay who's a gentle and patient teacher. I am impressed by the young and energetic staff that have guided us through the registration process and willing to lend a patient ear to all our queries. I am especially pleased that they allow for rescheduling of classes in case I, a working mother, cannot take him to class because of work commitments.



Kooki Ralte

**Mother of Rinawma
Chawngthu**

**Asst. Professor, Dept of
English, PGDAV College,
University of Delhi**



Proof of Excellence



Rancho Labs has been an incredible learning partner for my son, Bhavik, over the past two years. Their structured approach to teaching coding and AI has not only strengthened his technical skills but also helped him develop logical thinking and a problem-solving mindset. The emphasis on design engineering and real-world applications has given him a strong foundation for the future. We truly appreciate their dedication to nurturing young minds and making learning both engaging and impactful. Thank you, Rancho Labs, for inspiring and empowering the next generation of innovators!




Puneet Arora &
Payal Madan Arora

Parents of **Bhavik Arora**

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CEO@Gofitness


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Tech Journey Begins Here

