RANCHO LABS

IHFC | Technology Innovation Hub of IIT Delhi

3D Design & Print Winter Camp

Future-Ready Learning,
Crafted by **IIT Delhi Alumni**















For Grade:

3rd to 5th



Draw It. Design It. Print It.

Turn Your **Curiosity** into **Creation** this Winter

RANCHO LABS

IHFC | Technology Innovation Hub of IIT Delhi

Who we are?

We reimagine how children learn, making it hands on, engaging, and real-world exploration based. Guided by an ethos to build a better future with experiential learning in a better way, **Rancho Labs was founded** by **IIT Delhi Alumni** to bring education in **AI**, **Coding**, **Robotics**, and **innovation** to life.

Incubated at IHFC, IIT Delhi, and trusted by over **25000+ parents worldwide**, we're empowering innovators with future-ready skills. We have come a long way, but we're only getting started.

4.9/5
Average Rating by Parents

10 +
Research Papers Written

700 +
Innovations Projects

50 +
Competition Winners







RANCHO LABS

IHFC Technology Innovation Hub of IIT Delhi

Why 3D?
Why Now?

- **3D Pen:** Draw in the Air, Literally — Doodles that stand up on their own. Kids turn their imagination into real **3D creations** they can actually hold, starting with their very own pair of goggles.
- **3D Design:** The Freedom to Create — Before you print, you design the blueprint. Kids learn the logic behind **3D modelling** and see how simple shapes and geometry turn an idea into a real design.
- **3D Printing:** From Thought to Tangibility — Then comes the maker's thrill. Kids watch their model come to life on a **real 3D printer**, layer by layer, in real time.









RANCHO LABS

IHFC | Technology Innovation Hub of IIT Delhi

Learning Outcomes

3D Thinking: See shapes in length, width and height, and build them layer by layer.

Design Skills: Use beginner-friendly CAD software to combine simple shapes into real objects.

How 3D Printing Works: Prepare a design with slicing software and send it to a 3D printer.

Basic Circuits: Light up their own lamp with a simple LED circuit.

Creativity and Confidence: Turn an idea into something real, and proudly take it home.





RANCHO LABS

IHFC Technology Innovation Hub of IIT Delhi

Camp Schedule

(2 hours each)

Session 1

Drawing in 3D with 3D Pens

- Introduction to 3D pens
- Safety guidelines
- Modelling 2D and 3D shapes
- Outcome: Kids learn to use a 3D pen safely and build basic 3D structures.
- Project: 3D-Pen Goggles



Session 2

Computer-Aided Design (CAD)

- Introduction to CAD software
- Working with basic 3D shapes
- Combining basic shapes to form 3D models
- Outcome: Kids learn to create their own 3D models on the computer.
- Project: 3D Furniture Models



Session 3

3D Printing and Lamp Circuitry

- Introduction to slicing software
- Preparing a model for 3D printing
- Understanding a basic electrical lamp circuit with LEDs
- Outcome: Kids learn how their designs get printed on a 3D printer and how a basic lamp circuit works.
- Memento: Lithophane Moon Lamp with your own custom photo



RANCHO LABS

IHFC | Technology Innovation Hub of IIT Delhi

Certificate of Completion



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



RANCHO LABS

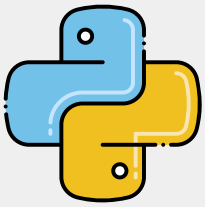
IHFC Technology Innovation Hub of IIT Delhi

Discover more Programs



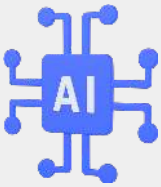
Game Development Winter Camp

For Grade 2- 5 | 6- 12



Python Programming Winter Camp

For Grade 6-12



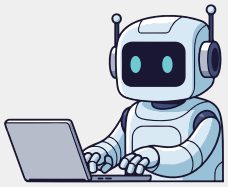
AI winter camp

For Grade 6-12



Drone winter camp

For Grade 6-12



Robotics winter camp

For Grade 2- 5 | 6- 12

RANCHO LABS

IHFC | Technology Innovation Hub of IIT Delhi

Locations & Fee Structure

1. Offline Centres

Visit our state-of-the-art innovation labs for an immersive, hands-on experience:



Head Office(IIT Delhi):

Rancho Labs, 1st Floor, Vishwakarma Bhawan, IIT Delhi, New Delhi - 110016

Offline Learning Centres:

- Gurugram Center: DLF Phase-1
- Noida: Spectrum Metro Mall, Phase-1, Sector 75
- Vasant kunj

2. Fee Structure

Offline Fee: ~~Rs.7,000/-~~ **Rs.5,000/-**



RANCHO LABS

IHFC Technology Innovation Hub of IIT 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**

CEO @Advolt Pvt Ltd
CEO@Gofitness



Aabir is very fond of his Robotics class and he enjoys his time at Rancho Labs and always excited to come to the class to learn new challenging projects. Rancho Labs and their faculty has raised the bar for many such communities/institutions by providing first hand experience/practical exposure to kids. Encouraging the kids to think out of the box and solve daily challenges has actually made my kid even more smarter and a great problem solver. Truly appreciate the hard work that goes in the background by the teachers to make that every session extremely enjoyable and rewarding for the students every time.



Indu Gupta

Mother of **Aabir**

Project Manager in Network Automation at Cisco

RANCHO LABS

IHFC | Technology Innovation Hub of IIT Delhi

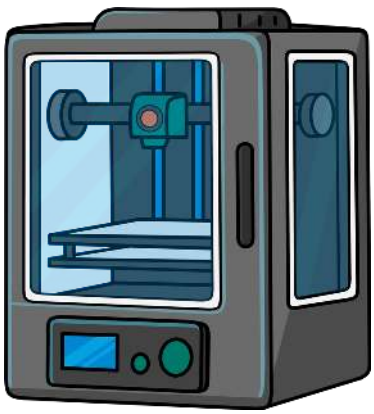
Proof of Excellence

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



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

RANCHO LABS

IHFC Technology Innovation Hub of IIT Delhi

The Journey Begins Here

Contact Us

+91 81786 36997, +91 8130548499

@rancho.labs

info@rancholabs.com

RanchoLabs

Head Office(IIT Delhi):
Rancho Labs, 1st Floor, Vishwakarma Bhawan, IIT Delhi, New Delhi - 110016

Offline Learning Centres:

- Gurugram Center: DLF Phase-1
- Noida: Spectrum Metro Mall, Phase-1, Sector 75
- Vasant kunj

