



RANCHO LABS

Backed and Funded by

Technology Innovation Hub of IIT Delhi, IHFC

YOUNG INNOVATORS PROGRAM

For Grade 6 Onwards

Start your child's journey toward the World of
Coding, Robotics and AI with Rancho Labs



OUR STORY

We are a group of passionate individuals committed to offer a memorable and impactful learning experience to enhance the interest of students in the field of technology. Started by IIT Delhi alumni and professors in 2019, we are a company that aims to ignite curious minds and shed light on flourishing career paths in Artificial Intelligence, Coding, and Robotics through experiential learning.

Supported by the Technology Innovation Hub of the Indian Institute of Technology Delhi, Rancho Labs has built a reputation for being reliable and is trusted by 10,000+ parents and innovators worldwide.



Our Journey



Why this Program?

01

Need of the Era



Practical education enhances understanding and application. It develops 21st-century skills, prepares for tech-driven future

02

Idea to Explore a Skill for Life!



Robotics enhances cognitive development by teaching problem-solving, creativity, critical thinking and preparing kids for STEM success.

03

Helps Foreign Admission



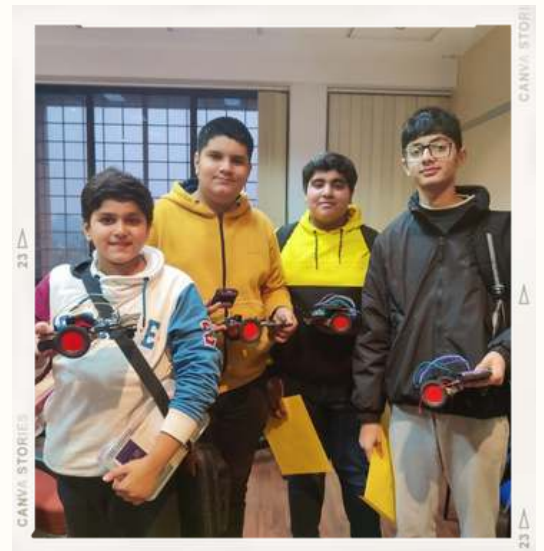
Robotics and coding by Rancho Labs boost personal/professional development in a fun and engaging manner, robotics can prepare them for future careers in technology, innovations and success in the 21st century

04

Competition Focused Approach



Competition Focused learning Robotics, Coding, AI can provide kids with a dynamic and engaging learning experience that prepares them for success



“
We can only see a short distance ahead, but we can see plenty there that needs to be done.
- Alan Turing (Inventor of AI)
”

What is this Program?

Young Innovators Program is a 1 Year experiential program conducted by expert mentors for grades 6th to 10th, focusing on technology and innovation with a unique methodology of Learn, Build, and Innovate.

We provide a well-curated and tested curriculum with the right balance between concept-based learning and hands-on activity making sure students are empowered and develop a problem-solving mindset with confidence.

These programs range from simple codes that control basic movements and sensor input to complex systems that involve machine learning, coding, mechanical design and artificial intelligence.

Who is this Program for?

Whether you want your child to discover his/her interests in technology from scratch or hone the already existing techie within them, the Young Innovators Program opens doors to all inquisitive minds that are on the lookout to become technically sound. The program is for:



Program Details

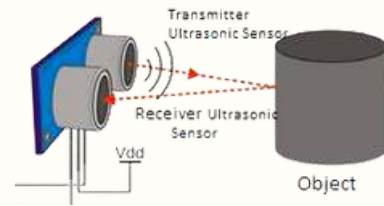
- Weekend Sessions(Sat/Sun)
- 48 Sessions
- 2 hours per week
- Real-life Problem Solving
- 24+ Projects
- PTM Every 6 Weeks
- Project Based Learning
- Revision Sessions

Our Methodology

STEP 01

Concept Delivery & Logic Building

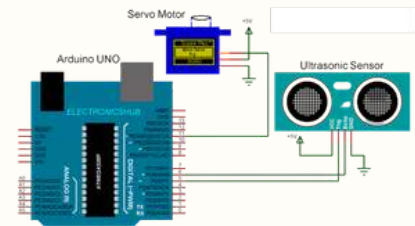
Science and technology concept delivery with logic building by the instructor



STEP 02

Circuit Design & Programming

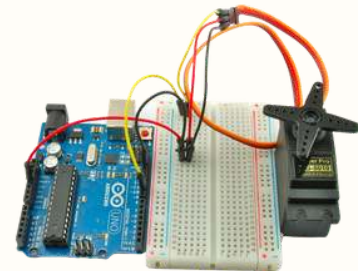
Circuit designing and programming on digital platform



STEP 03

Hardware Activity

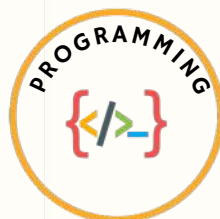
Hardware interfacing of the project using real components



STEP 04

Real-life Project Building

Real-life project building like smart dustbin using the concept learned



LEARNING ROADMAP

YIP Level 1

Month 1 to 3



Traffic Light



Smart Lamp



Smart Stick



Smart Parking



Smart Dustbin

YIP Level 2

Month 4 to 6



Dice



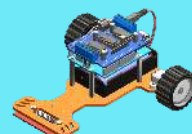
DPDT Car



Obstacle avoiding car



Edge avoiding car



Line following car



Smart Irrigation

YIP Level 3

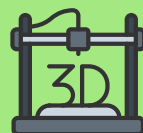
Month 7 to 12



Robo soccer



Robo race



3D Designing



3d printed models



Entrepreneurship



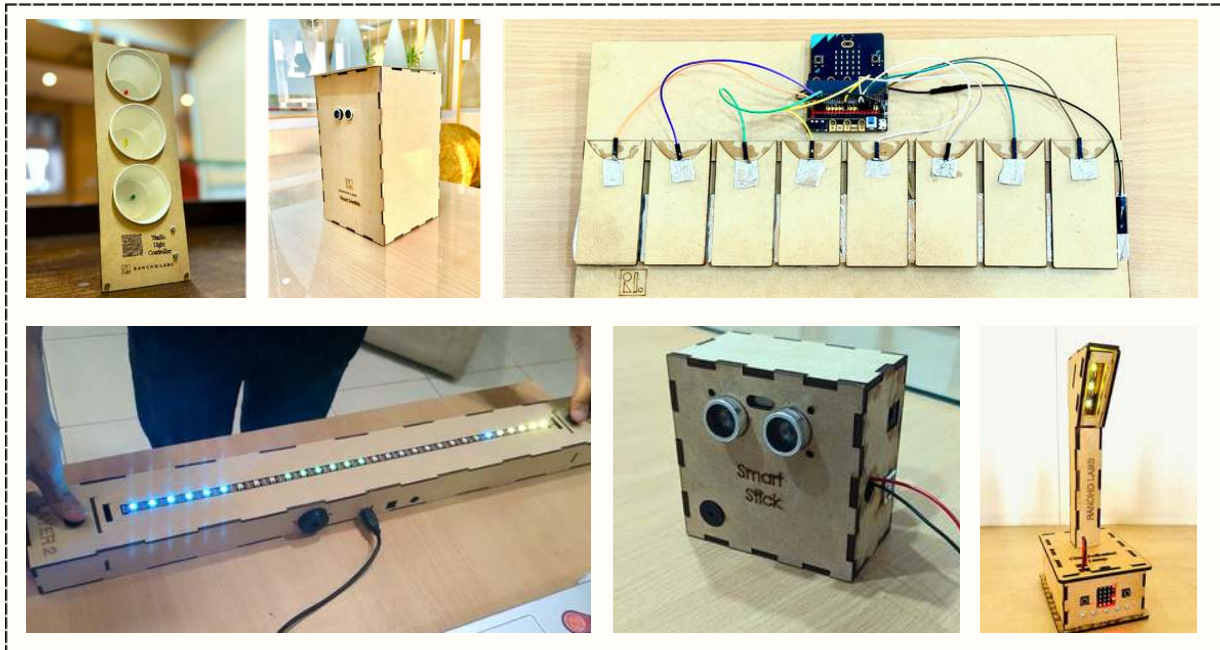
Controlling Buzzer



Led Using CT6B

Projects

Throughout the course, students will develop 24+ hands on projects with real-life applications.

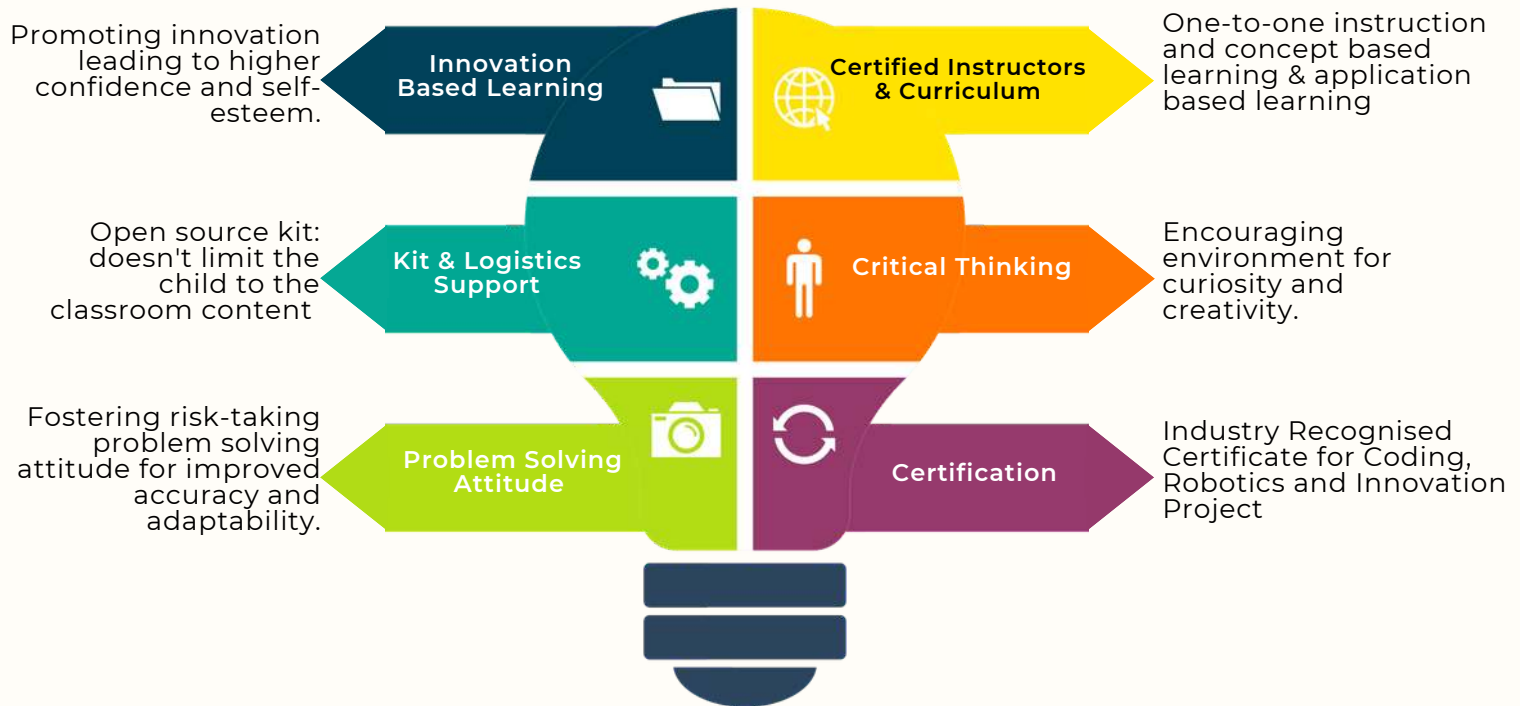


Kit

A well curated and tested electronics kit will be provided to the students with 30+ electrical components, 3 structured kits with Manuals worth **Rs. 8000 per Level**



Discover the Key Features of Our Coding & Robotics Program



**A little more than
what you'd expect**

Community Access

Participate in Rancho Community and experience life outside the classroom

Missed A Class?

Don't worry, Rancho Labs will provide a backup class!

Worried if you'll remember it all?

Students receive lifetime access to resources with the help of our E-learning platform

Have a Doubt?

Doubt Class/ Remedial class once every 2 weeks!

Be Up-To Date

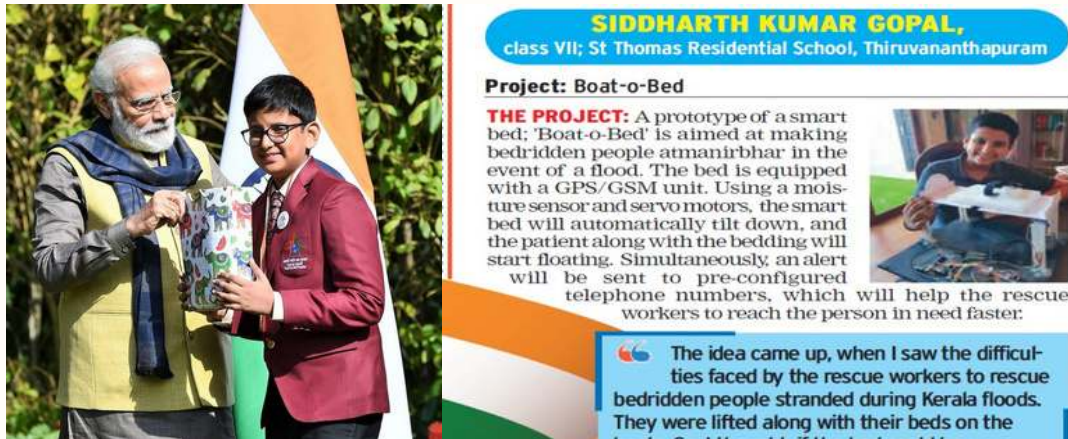
Regular PTM for assessment and feedback

Mentorship

Mentorship for Robotics Competitions and more!!

Pradhan Mantri Rashtriya Bal Puraskar 2020 award to Siddharth

(also featured in Hindustan Times)



The program by Rancho Labs has been a great learning experience for Siddharth. The classes were well planned and executed and the instructors were available round the clock to clarify doubts. Hands-on projects in stimulated environments helped students to reinforce concepts learned every day. I am happy to have enrolled my son in this course, as it has given him a solid foundation to 'futureproof' his skill sets.

~ Vandhana - Siddharth's Mother

Innovation Projects from Students

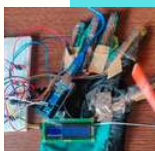
ATREYI KAUL
CLASS 6TH

SCAN QR
TO VIEW
THE
PROJECT



AUTOMATIC HAND SANITIZER

Integration of different domains of technology with AI. Rancho Labs provides best in class teaching resources for teachers and students



SMART GLOVE

The project helps deaf people to communicate directly with non-signers without needing someone else. The system includes a pair of gloves with sensors that turn finger movements into electrical signals, and a text message is displayed on the LCD output.



VIBHAV AGRAWAL
CLASS IITH

SCAN QR
TO VIEW
THE
PROJECT



Our Learning Centers



Head Office:



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



DLF Phase 1, Gurugram

Certification

- Participants will be awarded the certifications after completing the milestones.
- Participant needs to pass the evaluation after every milestone to receive the certificate.



Eligibility

- Program is open for Grade 6th to 10th students.

Pre-requisites:

- There are no pre-requisites to attend the program. The program starts from the basics.



Have A Query?

Contact our Team:

Gurugram: +91 8287109806, IIT Delhi: +91 9205160865

**"The best way to predict the future
is to invent it." - Alan Kay**



**GREAT
MINDS**

**START
YOUNG!**



Contact Us



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