

APPLY FOR WINTER PROGRAM

Tinker space for students to collaborate and learn Hands-on skills of future

Batches start from
1st Dec & 18th December
For School Students
of Age 8-18 Yrs

Winter Tinker Program

Learn Making almost
anything

I am _____ and I am a Young Tinker

About the Program

Millions of students will be looking forward to getting a break from their hectic school & college life. Participating in a winter camp is a great way to utilize the holidays. Winter camps offer a structured opportunity for children to grow and learn in the field of Science, Technology, Engineering, Arts and Maths. From friendship building to hands-on activity, your child has a lot to gain from attending a winter camp. We will look at Winter Tinker Program as a unique winter program for school kids in India that leverages hands-on learning and teaches students on building technological solutions of the world's biggest challenges.

Our programs at YTA are designed to promote:

- Self-discovery— fuel for the imagination
- Friendships outside one's family network—a wellspring of new confidence
- Independence— a driver of courage

Fee Structure

INR 29,999/-

Special Children Day's Offer

INR 24,999/-

Only if Registration done before 24 Nov

Last Date Of Enrollment

05 Dec 2022 - For out station students

10 Dec 2022 - For students in Bhubaneswar
& neighbouring cities

Take your Tinker Kit when you complete your Winter Tinker Program. Tinker kit includes components required to develop robots, car and more.



Core Mentors



Anil Pradhan

Mentor, Young Tinker Team
for NASA Rover Challenge

National Youth Award 2021



Vaishali Sharma

STEM Educator
Top 30 Women Entrepreneur
of India by NITI Aayog
Govt. of India



Abhishek Shukla

Recognised STEM Educator
Robotics Specialist
&
Electronics Engineer

Winter Tinker Program Curriculum

Day 1

Ice Breaking & Design Thinking

ACTIVITY

Ice Breaking, Design Thinking, Introduction to TinkerCAD basic shapes



Day 2

3D Printing technology

ACTIVITY

Introduction to 3D printers, Introduction to Slicing Software



Day 3

Design & Print

ACTIVITY

Making my 1st 3D Design



Day 4

LED Blinking using Switch

ACTIVITY

Making a single LED Blink using switch, Making multiple LEDs blink using switches



Day 5

Making Traffic Light

ACTIVITY

Making a Traffic Light using TinkerCAD, Making Traffic light module blink using switch

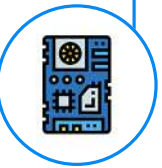


Day 6

Introductions to hardware coding

ACTIVITY

Introduction to Arduino UNO & Arduino IDE, Installing libraries for projects

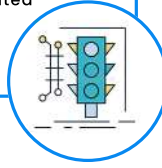


Day 7

Automated traffic system

ACTIVITY

Learn making your own automated traffic system.

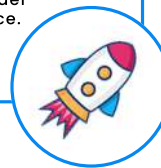


Day 8

Launching My First Rocket

ACTIVITY

Launching your own Rocket Model using basic principles of Science.



Day 9

Making a Remote Control Car

ACTIVITY

Bolting BO Motors & BO Wheels to Car chassis, Bolting Caster Wheel to Chassis, Connecting two-channel DPDT Joystick to Car



Day 10

Introduction to Bluetooth Module

ACTIVITY

Introduction to HC05 Bluetooth Sensor, Making LED blink using BT App and HC05



Day 11

Making a Wireless Bluetooth Car

ACTIVITY

Making both motors sync together using BT App & HC05, Coding for controlling Car as per the command

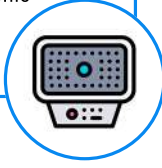


Day 12

Introduction to Ultrasonic Module

ACTIVITY

Introduction to HC-SR04 Ultrasonic sensor, Making LED blink using HC-SR04 sensor



Day 13

Making an Obstacle Avoiding Car

ACTIVITY

Making both motors sync together using HC-SR04 sensor, Coding for making an Obstacle avoiding Car

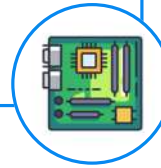


Day 14

Robo race in Devil's valley

ACTIVITY

Group Discussion and Documentation, Competing with fellow team members in Robo Race with individual Cars



Day 15

Tinker Day

ACTIVITY

Final Presentation with Robot showcase, Certificate distribution



Batches

6AM - 8:30AM

8:30AM - 11AM

11AM - 1:30PM

1:30AM - 4PM

4PM - 6:30PM

6:30PM - 9PM

Age group for Jr Tinker Batches and Sr Tinker Batches are 8-12 and 13-18 respectively

FAQ

1. Do you provide accommodation for outstation students?

Ans: We have accommodation facilities around our academy area for outstation students. Young Tinker Academy Bhubaneswar is at the VIP colony, Nayapalli, Bhubaneswar which is a prime location in the city. You may arrange your own accommodation in nearby hostels as well.

2. Do you help us in VISA process for students from another country?

Ans: We provide the letter of invitation from Young Tinker Academy, which will be helpful for the VISA Process

3. Do you have separate batches for Junior and Senior students?

Ans: Yes, we have separate batches for Std. 3-7 and Std. 8- 12

4. Do you provide takeaway Kits for students?

Ans: Yes, students can take the Tinker Kit along with them.

5. What if the Kit or its items are lost/damaged?

Ans: Students have to buy the Kit or the lost/damaged item again from the academy.

6. Do you provide Certificates to students?

Ans: Yes, the students will get certificates after the completion of the program.

7. Do you provide scholarships for the program?

Ans: No, there is no provision for a scholarship for the Tinker Program.

8. How are students selected?

Ans: Students are selected on a first come first serve basis. They can register themselves through our website for the program at the earliest as there are limited slots for each batch.

9. Can YTA help high school students crack the admissions at top colleges abroad?

Ans: Yes, of course. A lot of our students are now placed in the best universities across the globe.

10. Who are the ideal participants for the YTA's Winter Tinker Program?

Ans: Any student between the ages of 8 to 18 years is eligible for our hands-on education program. Students are divided into small groups based on their skill level.

11. How to apply and enroll? What does the camp look for in applicants?

Ans: Interested students (and parents) can apply online through our website. Interest in science and passion for creativity is what we look for.

"I am a 11th grader studying at Carnegie Vanguard High School, Texas, USA. I came all the way from US to experience Young Tinker Academy. It is the spark that improved my public speaking and made me confident in my hands-on abilities. I stayed in Bhubaneswar for a month and the Tinkering program helped me figure out what I wanted to do in life. I wish to come again and again to Bhubaneswar as every session is unique in its own way. I can proudly say that I am a Young Tinker."

Nidhi Gupta
Class 11th | Texas, USA

Aditya Sharma
Class 11th | Jharsuguda,
Odisha

"I am a 11th grader from Jharsuguda, Odisha. It was fun learning at Young Tinker. The Mentorship and team building activities helped me learn skills like public speaking, leadership and presentation skills along with hard skills like Hardware coding, CAD Designing, product development and more. Even after the program, the Young Tinker community helped me participate and win in various competitions. I am a Young Tinker."