TRAINING MODULES

1. BASIC ROBOTICS

PROJECTS

Intro to Basic Electronics & Arduino LED Array RGB LED Buzzer Seven Segment Display Relay Control LDR Line Follower Obstacle Avoider Wall Follower Edge Avoider Computer Controlled Robot IR Remote Controlled Robot

BENEFITS

You will be gaining :-

- An in-depth knowledge about the basics of the robotics and electronics
- The knowledge about what, when, where, how and why of all the components used in this project
- Developing problem solving skills
- Developing creativity and imagination

2. INTERMEDIATE ROBOTICS

PROJECTS

All of the Basic Robotics projects Interrupt Handling in Arduino Programming with Port Manipulation LCD Integration Ultrasonic Range Finder RF Remote Controlled Robot Servo Motor Control SPI and I2C Protocol Wi-Fi Robotics Obstacle Avoider with Ultrasonic Sensor Gesture Robotics Home Automation

BENEFITS

You will be gaining :-

- Design and build your own RC Car and control it with Wi-Fi and Hand Gestures
- Developing programming/coding skills
- Learn the concept of Home Automation and convert your Home to Smart Home
- Control your Home from anywhere around the world with just a click

3. ADVANCED ROBOTICS

PROJECTS



All of the Basic Robotics projects All of the Intermediate Robotics projects Self-Balancing Robot PCB Designing and Fabrication Soldering Techniques RC Micro Quadcopter RC Micro Plane

BENEFITS

ARDUINO OPEN - SOURCE COMMUNITY

You will be gaining :-

- The skill of designing Printed Circuit Board
- The skill of soldering
- Learn all the introductory concepts of aeronautical engineering through aeromodelling
- Learn all concepts of UAV Development and Engineering
- Learn about stability and control of Drones
- Hands-on experience with model Aeroplane and Drones
- Design, Build & Test your first RC Aircraft from scratch!

REQUIREMENTS: PC(Laptop/Desktop) & LOTS OF PASSION

ELIGIBILITY: Anyone who is really passionate about creating something from the world of imagination

*Take-away kit will be provided to participants depending on the type of course they select. This is done to reduce the cost of the program and make it affordable for students who do not want to buy the take-away kit.

