



# RoboSmart Labs

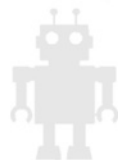
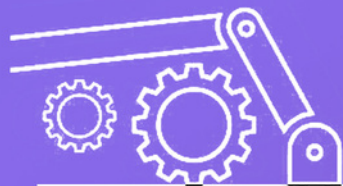
REDEFINING ROBOTICS EDUCATION



## 24 Hours Course - Robust

(Standard 9 - 10)

Course code: RSLILSDR03



**HANDS-ON**  
**IN - LAB**  
**COURSE SERIES**



# RoboSmart Labs

## REDEFINING ROBOTICS EDUCATION

### INTRODUCTION TO ROBOTICS

#### Learning Outcome & Projects

About Robot Smart Labs, What is a Robot?, Robots in Movies?,. Robots in Real Life?, Demonstration of all Robots in Lab, Parts of Robots, Mechanical parts working - observation - lab tour, Electronics parts working - observation - lab tour, Programming working - observation - lab tour

### ROBOT- ELECTRONICS

#### Learning Outcome & Projects

Voltage, Current, Resistance, Ohm's law and led basics, Series and Parallel Connection, DC motors, Introduction to sensors, Making your First Circuit, Battery / Power, Light & Buzzer, Dimmer, Switch & push button, Limit switch, Sensor base with threshold, Obstacle sensor, Light sensor & Motion sensor, Follow Me Robot - Calibrating IR Sensors

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## ROBOT - MECHANICS

### Learning Outcome & Projects

2wd Robot Assembly  
Obstacle Avoiding Robot assembly

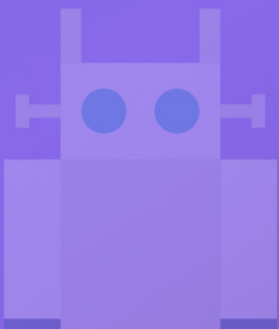
## ROBOT - CODING

### Learning Outcome & Projects

Smartphone-Controlled Robot - Programming,  
Follow Me Robot - Programming, Shy Robot -  
Programming Challenge, Gesture-Controlled Robot  
- Programming, Pick-and-Place Robot - Programming,  
Joystick-Controlled Robot - Programming

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[www.robosmartlabs.com](http://www.robosmartlabs.com)





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## DRONES

### Learning Outcome & Projects

INTRODUCE AEROMODELLING, DYNAMICS OF AN AERIAL SYSTEM, AXES OF ROTATION, Introduction To Drones, History Of Drones, Types Of Drones, Applications Of Drones, Future Applications Of Drones, FORCES OF FLIGHT IN DRONES, Controls Of An Airplane, Controls Of A Drone, BUILDING THE DRONE – PLUTO, TEST FLIGHT, Drone Piloting Observation, Drawing shapes, Farming Drone, Step farming, Delivery drone, Snake drone, Space drone, Treasure hunt drone, Racing drone, Autonomous drone

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