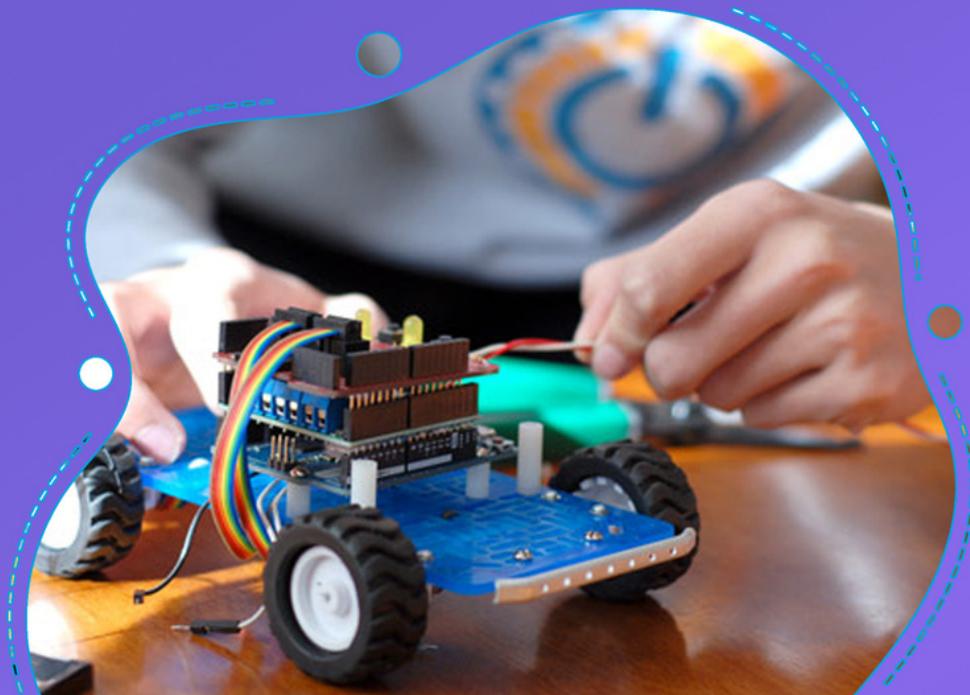




# RoboSmart Labs

REDEFINING ROBOTICS EDUCATION



## 24 Hours Course - Achiever

(Standard 6 - 8)

Course code: RSLILSDA02





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## 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, Demonstration of robot use of mechanical, electronic and coding

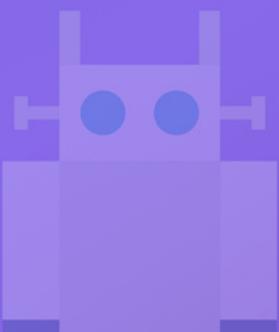
## ROBOT- ELECTRONICS

### Learning Outcome & Projects

Making your First Circuit, Battery / Power, Light & Buzzer, Dimmer, Switch & push button, Motor & High Speed Motor Copy, Wire & Connectivity, Limit switch, Sensor base with threshold, Obstacle sensor, Light sensor & Motion sensor, Transmitter & receiver, 10+ Activities

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## ROBOT - MECHANICS

### Learning Outcome & Projects

Two Wheel Driver Horizontal Robot, Four Wheel Driver Horizontal, Obstacle Avoidance Robot, Vertical Steering Robot with Ultrasonic Sensor, Gripper Robot with Phone, Vertical Pick and Place Robot, Customise your Robot

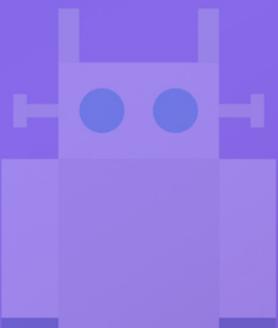
## ROBOT - CODING

### Learning Outcome & Projects

Digital Output – LED State Control, Analog Output – LED Brightness Control, Digital Input – Reading the State of Switches, Analog Input – Reading Potentiometer, Evive's Display – Hello World!, Beetle in the Maze, Displaying Patterns on RGB LED Strip, Controlling a DC Motor using PictoBlox, Hand Controlled 4-Wheel Robot, Pick and Place Vertical Robot

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## HUMANOID

### Learning Outcome & Projects

Introduction to Humanoid Robotics, Safety on Humanoid parts motors, battery care & Charging, Parts of Humanoid, Movement, Detect Face and Wave

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