

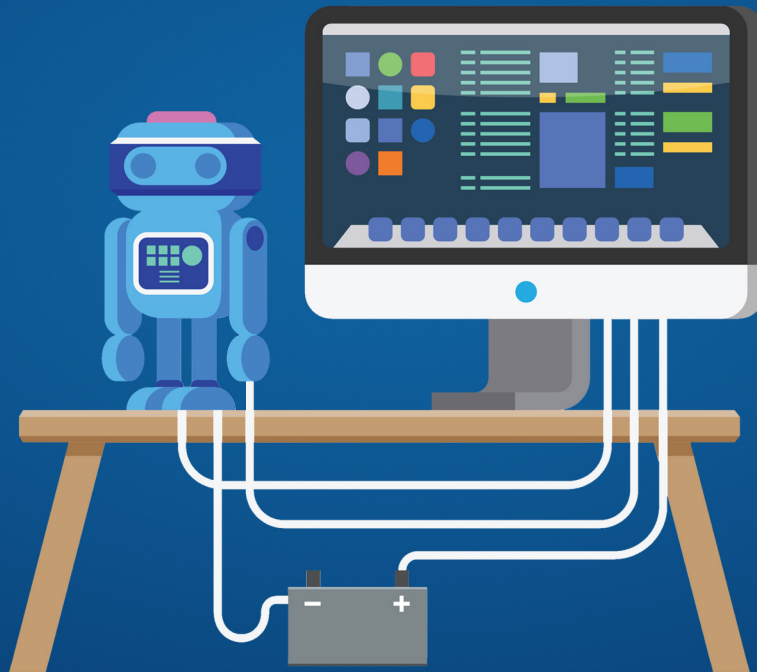


RoboSmart Labs

REDEFINING ROBOTICS EDUCATION

10 Hour Course - Option 3

Course code: RSL0L10A01



ADVANCED ROBOTRONICS (ACHIEVER - GOOD FOR GRADE 6-9)



INTERACTIVE **LIVE** COURSE SERIES



RoboSmart Labs

REDEFINING ROBOTICS EDUCATION

ADVANCED ROBOTRONICS

(ACHIEVER – GOOD FOR 6-9 GRADES)

Course code: RSL0L10A01

Learning Outcome

Basic circuit connections: Controlling LEDs and DC motors, Understand the switches, pushbuttons, and battery connections, Control multiple motors with Arduino using scratch programming, Connect the IR sensor and photo-resistor to make an obstacle avoider robot, Use the Ultrasonic sensor to make a robot and home security system, Use servo motors to make robotics Arms, Simple project discussion using the integration of multiple sensors, Learning about motors & Learning about sensors

Projects

Complex LED blinking, Multiple LED interfacing with switch, 4wd robot motor connection, Robot with obstacle detection, Sensor concepts with, Alarm system LDR sensors, Object detection PIR sensors, LDR based Outdoor lighting system, IR sensor based PIR Burglar Alarm

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