



A new **DIMENSION** to
your **LEARNING**

INDIAN SCHOOL OF ROBOTICS
Embedded System

Curriculum
38 Classes

COURSE TITLE

Embedded Systems

Class Plan For

ACADEMIC YEAR

2020-21

Embedded systems are a combination of hardware and software designed to provide a specific function. This course is specially designed as a hands-on learning course to teach you how to build various embedded systems such as home automation system, air monitoring system etc and to control them using programming.

You also get ISR Embedded System Kit with the course. The kit is delivered in a sturdy storage bin with 40+ parts such as controllers, sensors, LED's, Bluetooth module & connectors.

UNBOXING!!!

Our experts will help you UNBOX your Kit and also make you familiar with all its parts. You are requested to schedule your unboxing class within 3 days of receipt of your Kit by sending email to contact@isrobotics.com. You can also call or what's app to (+91) - 8289075108

LIVE CLASSES

Live classes are hosted on 'Google Classrooms.' We recommend you schedule 1 to 2 class per week.

Participants will be provided with the certification on successful completion of each level of the course.

INDEX

	Class	Content
BEGINNER	Class 1	Introduction & IDE Installation
	Class 2	Interfacing LED with 8051 μ controller
	Class 3	Interfacing DC Motor with 8051 μ controller
	Class 4	PWM Based DC Motor Speed Control using μ controller
	Class 5	Interfacing 16 \times 2 LCD with 8051 μ controller
	Class 6	Interfacing 7 Segment Display to 8051 μ controller
	Class 7	Stepper Motor Control using 8051 μ controller
	Class 8	Digit Up & Down Counter Circuit
PROFICIENT	Class 9	Analog Sensor Interfacing With 8051 μ controller
	Class 10	Digital Sensor Interfacing with 8051 μ controller
	Class 11	Introduction of Arduino & creating a wave led with Arduino
	Class 12	Project - Design a count-down timer and alarm with Arduino
	Class 13	Project - Display multiple value using grid matrix
	Class 14	Interfacing LCD and LM35 to display on temperature
	Class 15	Project - Rainfall detector system
	Class 16	Project - Smart Dustbin based on Arduino controller.
EXPERT	Class 17	Project - Heart beat monitoring system
	Class 18	Interfacing alcohol sensor with Arduino
	Class 19	Interfacing Bluetooth module with Arduino
	Class 20	Project - Air pollution monitoring system
	Class 21	Project - Make a tank robot car with IC L293D.
	Class 22	Project - Home automation system using Arduino controller
	Class 23	Introduction to IoT & blynk led control
	Class 24	Project - IoT enabled fire alarm
	Class 25	Project - IoT enabled parking system
	Class 26	Project - IOT enabled street-light system
MASTER	Class 27	Project - IOT enabled temperature monitoring system
	Class 28	Project - IOT enabled irrigation system
	Class 29	IoT with ultrasonic sensor
	Class 30	Project - IoT enabled Air monitoring System
	Class 31	Project - Wrist band
	Class 32	Using NodeMCU with push button
	Class 33	Project - IoT enabled LPG gas detector
	Class 34	Project - IoT enabled radar
	Class 35	Project - IoT enabled home automation
	Class 36	Project - IoT enabled door lock & unlock system
	Class 37	Project - IoT in sncy with Arduino controller
	Class 38	Assessment Project