



This course is specially designed for students who are new to robotics and wish make interesting project to enhance their knowledge All the topics are taught from very basics so that student from any class can easily understand and start making robots

Module 1: Introduction to Robotics

- Terminology involved in robotics

Module 2: Basics of Electronics & Mechanics

- Introduction to Electronics
- Different type of Motors
- Different Drives
- Steering Mechanism
- Different type of gears

Module 3: Study of Motors

- Hands-on with soldering
- Soldering wires on Motors
- Testing of Motors

Module 4: Introduction to tools

- Assembly of basic chassis
- Fixing of connections (No soldering)
- Project: 1 Manually controlled Robot

Module 5: Study of Gears

- Project 2: Pick and Place Robot
- Project 3: Football playing Robot
- Project 4: Robotic Crane
- Project 5: Robotic Boat
(Demo can be at swimming pool, if allowed)

Module 6 Competition

- Preparations of machines in a group of 2 3
- Inter Group Robotics Competition

Kit Includes:

- Scoobot Mechanica chassis
- Aluminium Parts
- Set of wheels and tyres
- Castor Wheels
- Set of Gears
- Switch Box
- Power Supply
- Connecting wires
- Nose Plier
- Screw Driver
- Pack of Nuts and Bolts

Note: Specifications are subject to change.

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