



Circular No. MSN/MB/SB/10/2024

**Circular - Robotics
(2024-25)**

Dear Parent

Date: 12.04.2024

In our constant endeavour to provide holistic learning, we have associated with Robospecies to train and educate our students in Robotics. This will increase critical thinking, problem solving and scientific temper. Robotics is the application and implementation of concepts learnt in Science, Technology, Engineering and Maths. It is a natural progression and evolution of learning.

This will be a fun filled learning process that inspires interest and motivation to pursue career in the field of Science and Technology.

Robotics Kit Charges: 6000/- INR

Course Details

COURSE OPTION 1

Classes: VI – VII

Course Duration: 20 Hours

BASIC MANUAL ROBOTICS

- Introduction to Robotics, Application of Robotics, Introduction to Manual Robotics. Students will make their first Robot.
- They will assemble and learn about different parts and will prototype different models of cars and learn about differential drive system. They will make a Walker Robot on 6 legs which will make them understand different principles of physics and gear assembly.
- They will put together Robotic Arm and understand the mechanism of Pick and Place Robot which is being widely used in Automation Industry.
- Students will be learning concepts of Coding and electronics over robot controller.

COURSE OPTION 2

Classes: VIII – X

Course Duration: 20 Hours

ADVANCED ROBOTICS

- Introduction to Infra Red Sensors, and Interfacing IR Sensors with Roboduino Board. Introduction to Advanced Arduino Motor Shield and interfacing it with Roboduino Board.
- Concept of Line Follower, Obstacle Avoider and Edge Avoider Robot.
- Programming Robots to make a Line Follower Robot, Completion and testing of Line Follower Robots.

Warm regards

Alka Awasthi
Principal

Consent Form

My ward _____ Admission No _____ of Class / Section _____ is interested for joining Robotics course option _____. The amount of _____/- INR, (by Cash or Demand Draft No. _____ Dated _____) is being paid for the same.

Parent's Signature:

Parent's Name:

Contact No. :