



THE BISHOP'S CO-ED SCHOOL, UNDRI CLASSES V TO VIII

"Robotics and Automation Program"

IndiaFIRST Robotics Innovation and Research LLP, Pune has entrusted the training of Robotics and Automation for the students of the Bishop's Co-Ed School, Undri.

The course on Robotics and Automation Program is introduced to the students of the Bishop's Co-Ed School, Undri from Class 5 to Class 10. A total number of 28 students have taken admission for the course.

The course is aimed at teaching students the Basics of Electronics, Arduino Micro-Controller, DC Motor programming and construction of various robotics models using various sensors like Bluetooth Sensor, Ultra-Sonic Sensor, IR Sensor, Temperature and Soil Moisture Measurement Sensor.

This knowledge helps students to understand Electronics, Mechanical, IT Programming as well as Electrical Engineering. Once they get acquainted with the technology, they also work on applying the technology for solving various problems around them as well in the society thereby triggering their brain for creative and innovative thinking.

This activity helps the students to develop Logical Thinking Skills, Analytical Thinking Skills, Critical Thinking Skills besides several other skills like Leadership, Team Work, Presentation, Communication etc.

Students will be participating in the International Robotics Competition organized by IndiaFIRST Robotics Innovation and Research LLP. Students are required to design and manufacture the robots. The robots will be required to perform various tasks in the competition and become eligible for various awards as per their performance. More importantly it will help them develop their technological skills and prepare them to face the world confidently.

Courses Introduced:

Arduino Based Robot Development Course

Topics Covered up to 19th November 2022 are as follows:

1. Introduction to Robotics
2. Basics of Electronics
3. Practical hands-on projects on
 - a. LED on/off
 - b. Control LED Brightness using variable resistor
 - c. Transistor as a Touch Switch
 - d. Electronic Eye
 - e. Electronic Letter Box

Students in action



Training session in process



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