

(COMPUTER ROBOTICS)

(Course Duration: 2 Months)



Course Overview

Computer Robotics can design, develop, and maintain robots for different applications, such as industrial automation, healthcare, agriculture, and space exploration. You may work on areas like robot control systems, machine vision, robotic perception, and autonomous navigation.

Course Content

+ Tinkercad

+ Building IOT Applications

- Introduction to Arduino
- Arduino IDE
- Arduino IDE Installation
- Writing code in sketch
- Role of serial monitor
- How to use first LED Sketch Program
- Interfacing Sensor
- Push Button
- Sensors DHT
- Interfacing Arduino UNO with LDR Sensor
- IR Sensor
- Ultrasonic Sensor
- Interfacing HC-05 (Bluetooth module)
- Potentiometer Analog Input With Arduino
- Controlling RGB LED using a Potentiometer
- Interfacing LCD Display with Arduino
- Interfacing LCD Display with Arduino with autoscroll command
- Interfacing Keypad with Arduino

