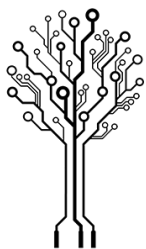
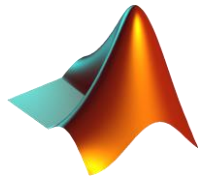


Office Location

DreamTech Labs
Jalandhar

Office Hours

9:30-18:00



Mechatronics

Curriculum {45Days}

Course Materials

Introduction to Mechatronics

- * What/Why Mechatronics?
- * Applications
- * Requirements of Mechatronics

Basics of Embedded System

- * Introduction to Embedded System.
- * Applications of Embedded System.
- * Components of Embedded System.
- * Basic of Embedded C.

Introduction to Arduino

- * AVR microcontroller.
- * Discussion on Arduino Boards.
- * Choosing a Board.
- * Basic Interfacing of Board with External Peripherals.
- * Protocols: I2C and SPI.
- * Timer and Interrupts.

Basic of Mechatronics

- * Sensors and Transducers.
- * MEMS.
- * EDC: Electronic Devices & Circuits.
- * Power Electronics.
- * Industrial Automation.

- * Advance Control Systems.

Wireless Technologies

- * IOT: Internet of Things.
- * Bluetooth Low Energy Chip.
- * Long Range RF.
- * ZigBee.

PCB Designing & Fabrication

- * 3D Designing Using CAD.
- * Troubleshooting.
- * Fabrication Process.

MATLAB Simulink

- * Introduction
- * Editor
- * Simulink Designing
- * Interfacing With Arduino

Emerging of Technologies

- * Mechanical + Electronics.
- * Mechatronics Project.

Including/Excluding Hardware.

