

Module 1 : Introduction to robotics

- What is a robot?
- History of robots
- Components of industrial robots
- Basic electronics and Digital logics
- Binary math conversions/ASCII code

Module 2: Introduction to Programming Languages

- C ,C++, Python

Module 3: Introduction Embedded systems

- Input and Output (I/O) devices
- I/Os and sensors
- ADC and Wired, Wireless Communication
- Display interface
- PWM (For knowledge), Memory programming
- Microcontroller programming
- Practical class

Module 4 : Working On Robots

- Robotic kit programming
- Hardware Troubleshooting
- Practical class
- Applications for robots
- Robot maintenance
- Robotics and safety
- Robotics and Artificial Intelligence (AI)

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