SKYY RIDER INSTITUTIONS FOR ADVANCED SKILL & RESEARCH

(An ISO-9001:2015, ISO-29990:2000 Certified company)
At-ISKCON Temple, Nayapalli, Bhubaneswar, +91-8800889353

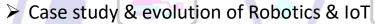


Internship On Industrial Robotics & IoT

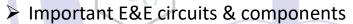
4 Weeks

Introduction to Robotics & IoT

- Introduction to robotics & IoT
- IoT structure
- Introduction to industrial Robotics
- Applications of IoT
- Types of Robots



- History of Robotics & IoT
- Requirements of hardware & software
- Case studies on some projects



- Electronic components familiarization
- Circuit creation using software
- Different electronic circuit familiarization
- Application of circuits in robotics & IoT

Industrial robots & IoT

- Components & classifications of Robot
- Configurations of system
- Drives & motions
- Degree Of Freedom(DOF)
- Technical parameters associated with robotics

> Familiarization with the Dev. Environment

- Integrated development environment (IDE)
- Sensor & actuators
- Familiarization of sensors with boards

www.skyyrider.com info@skyyrider.com

SKYY RIDER INSTITUTIONS FOR ADVANCED SKILL & RESEARCH

(An ISO-9001:2015, ISO-29990:2000 Certified company)
At-ISKCON Temple, Nayapalli, Bhubaneswar, +91-8800889353



Programming in Robots & IoT

- Programming structure of IoT & robotics
- Programming boards
- Programming with Arduino IDE

Data communication & technologies in IoT

- How to transfer data by wireless /wired connectivity
- Serial communication, Ethernet, CAN bus concept
- Concept of MQTT,HTTP ,API & Rest API

Practical / Projects

- Line follower Robot
- Obstacle-avoiding robot
- Bluetooth robot car
- Wi-Fi robot car
- Pick N Place robot with Blynk 2.0
- Home Automation using web server switch
- Home automation using Blynk 2.0
- Home Automation using Alexa
- Home Automation using Google Assistant
- Real-time data store in web server(DHT11)
- Data store in Thingspeak
- Plant watering system with Blynk 2.0







INSTITUTIONS

www.skyyrider.com info@skyyrider.com