

Six months Industrial Training Program in Internet of Things (IoT)

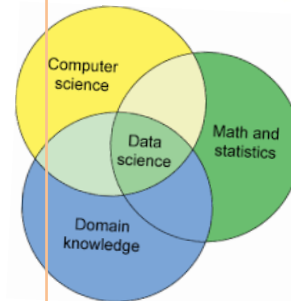
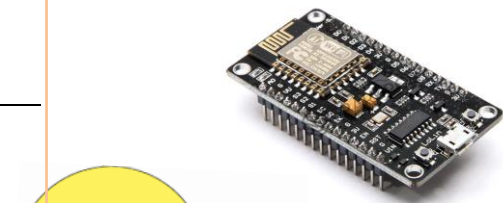
under joint certification with IIT Ropar

Dual Certification Advantage*



Contents

- Fundamentals of Electronic Components & it's working
- Basics of Electronic measuring, Testing tools
- **IoT** – Introduction, Architecture, Protocols, Applications
- Arduino IDE, Basics of Embedded C Programming
- Interfacing LED, Push Button, Buzzer, LCD, NodeMCU, Serial communication, etc.
- Interfacing Analog and Digital Sensors
- Protocols – Bluetooth, I2C, SPI, etc.
- Web services, Posting sensor/s data to web server, JSON.
- Introduction to 8051/ARM7 Microcontroller
- Minor Project
- Virtualization and Cloud computing
- Web server - Introduction, installation, configuration
- Linux Operating System
- **Raspberry Pi** – Introduction, Installation, Applications.
- Programming with Pi (GPIO pins) using **Python**
- Python packages- NumPy, Pandas, Matplotlib
- Introduction to **Industrial IoT (IIoT)**
- **Machine Learning**(scikit-learn) using Python
- Introduction to **Augmented and Virtual Reality (AVR)**
- Major Project



Contact

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