

# IoT with NodeMCU



- ★ Digital Certification by Makxenia
- ★ 10 Demonstration during course
- ★ Access to study material and codes
- ★ Prerequisite only arduino
- ★ Learn from the best in industry
- ★ Interesting assignments
- ★ Application based demonstrations
- ★ Live Interactive sessions
- ★ Instant Doubts solving
- ★ Perfect blend of live demonstration with knowledge based theory



## Demonstrations

- Home Automation using IOT
- Graphical Weather Monitoring Station Thingspeak
- Custom Online Whether Station
- Build Website for receiving data(HTTP GET)
- Build website to sending data (HTTP POST)
- Hosting website from Nodemcu
- DHT11 interfacing
- Relay Module Interfacing
- LED blink
- LED glow

## Course Content

**Day 1:** Introduction to internet of things, introduction to lot hardware, introduction to NodeMCU/ESP12-E

**Day 2:** Introduction to arduino, software installation, Setting up Nodemcu Environment, Demos and Code: LED blink, DHT11 Temperature and Humidity

**Day 3:** Demos and Code: Basics of HTML, Basic website creation and hosting, Customizing the website looks

**Day 4:** Demos and Code: Publish DHT11 Data on web (Weather monitoring system), Customizing webpage to receive and publish data

**Day 5:** Demos and Codes: Relay Control, Receive data from Webpage (Home Automation), Customising web page to post data to nodemcu

**Day 6:** Demos and Codes: Introduction to Thingspeak and graphical weather monitoring system

**Day 7:** Demos and Codes: Hosting Web Pages right from Nodemcu, Home Automation 2