



Since 2007, Making IT Experts & Products

Course: IoT (Internet of Things) Training

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of over 250 industry experts. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. We offer 100% placement support through JobsNEAR.in

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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Module 1 - Introduction

- * Concepts & DefinitionsÂ
- * Myth with IoT
- * Business with IoT
- Carrier in IoT
- * IoT Applications
- * IoT system overviewÂ
- Node, Gateway, CloudsÂ
- Why IoT is essential
- * Machine learning
- * Artificial Intelligence

Module 2 - IoT Architecture

- * IoT Network Architecture
- * IoT Device Architecture
- * IoT Device Architecture
- * Publish-Subscribe architecture

Module 3 - A loT Device Design

- * Sensors Classification & selection criteria based on the nature
- * ,frequency and amplitude of the signal
- * Embedded Development Boards â€" Arduino, Raspberry Pi, Intel Galileo, ESP8266

Module 4 - A IoT Communication Protocols

- * Wired Communication Protocols
- * Wireless Communication Protocols

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- * Application Protocols â€" MQTT, CoAP, HTTP, AMQP
- * Transport layer protocols â€" TCP vs UDP
- * IP- IPv4 vs IPv6

Module 5 - Cloud

- * Concept & Architecture of Cloud
- * Public cloud vs Private cloud
- * Different Services in cloud (IAAS / PAAS / SAAS)
- * Importance of Cloud Computing in IOT
- * Leveraging different Cloud platforms.

Module 6 - Designing The IoT Product

* Interfacing peripherals & Programming GPIOs - Input/output peripherals,

Sensor modules

* Design Considerations â€" Cost, Performance & Power Consumption tradeoffs

Module 7 - Programming

- * Embedded C
- * Python
- * Arduino

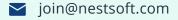
Module 8 - Â Hands-On Using Raspberry Pi Board

- * Setting up board
- * Booting up Raspberry Pi
- * Running python on Raspberry Pi, GPIO programming
- * Interfacing sensors and LED (Input and output devices)

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NESTSOF

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- * Making a few projects
- * Sending data to cloud 2 using Raspberry Pi board
- * Sending data to cloud 3 using Raspberry Pi board
- Making raspberry Pi web server
- Making raspberry PI TCP client and server
- * Making raspberry Pi UDP client and server

Module 9 - Â Use Cases

- * A cloud-based temperature monitoring system using Arduino and Node MCU
- * Esp8266 WIFI controlled Home automation
- * Obstacle detection using IR sensor and Arduino
- * Remote controlling with Node MCU
- * Temperature monitoring using a Raspberry Pi as local server
- * Raspberry Pi controlling Esp8266 using MQTT
- * weather monitoring system using Raspberry Pi and Microsoft Azure cloud

Module 10 - Closer

- * Existing Product in Market
- * Barrier in IoT

(Click on Course for more details)

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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