Online Internet of Things Training
Learn to build IoT projects from scratch in 4 weeks
Duration: 4 weeks | Certified Training

About Internet of Things Training

The IoT Training by Internshala is a 4-weeks training program in the field of electronics, web applications and autonomous control of devices over the internet. This training will give you extensive insight to the world of Internet of Things. As you progress through the training you will work on the following projects:
- Environment monitoring system which can sense the light intensity in a room and also plot it
- in the form of a graph.
- Temperature monitoring and visualization of an environment.
- Web-based monitoring system
- Audio-Based notification system
- Sensor data based trigger
- Smart alerts and Social media of things
- Alerts on Social Media and Mobile phones based on sensor triggers

You may choose your own problem statement for the projects, for which we will provide support. However, detailed solutions will only be provided for problem statements defined by us. Following are the details of the training:

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Each topic will have MCQ based quizzes to help you understand the basic concepts taught in the course.

1. **Building an IoT Monitoring System:** *You will learn the key concepts of IoT and Bolt Cloud and also build your first IoT system*

- Introduction to IoT
- Introduction to Bolt
- Getting Started on Bolt Cloud
- Building your first IoT Sensor Project

2. **Controlling Devices Over the Internet** *: You will learn about HTML and Javascript and how to interface different sensors with the Bolt device.*

- Introduction to HTML
- Introduction to Javascript
- Data Visualization
- Visualization on Bolt with Google Library
- APIs on Bolt
- Controlling devices over the Internet via Bolt

3. **Cloud, APIs, and Alerts:** *You will learn the basics of Cloud and Linux concepts. Basics of Python will also be taught and you will be able to build systems that can gather data and send you SMS/Email alerts.*

- VPS (Virtual Private Server)
- Introduction to Linux
- Introduction Python
- Bolt Python Library
- Interfacing Sensor over VPS
- Social Media of Things
- Bitcoin Alert System

4. **Machine Learning with IoT:** *You will learn to create a simple machine learning model using data visualization.*

- Introduction to Machine Learning
- Prediction
- Anomaly Detection
- Assignment

FAQs

What is this IoT training program about?
This is an online training program in the field of web-based automation technology and it is known as Internet of Things. Students will be trained in the basics of automation, web application and interface between hardware and software.

Who would be my instructor?
The Internshala Internet of Things training content has been developed in joint collaboration with Inventrom. Inventrom team will clear your doubts and answer your queries on the forum.

What is the duration of this training?
This is a 4 weeks training program.

Will kits be provided?
Yes, kits will be delivered to the students' address so as to enable them to build the projects demonstrated in the course.

What are the timings of this training program?
As this is a purely online training program, students can choose to learn at any time of the day. The students can decide the timing according to their convenience.

Who can join? I am a beginner/advanced user, is this IoT training program for me?
This training would be better suited to beginners who have no prior knowledge Internet of Things. Anyone who is willing to learn and has interest in IoT can opt for this training program.

Are there any pre-requisites for joining this program?
This program is for beginners. There are no prerequisites.

What are the benefits of joining this training program?

The Internet of Things (IoT) is the network of physical objects or "things" embedded with electronics, software, sensors and connectivity to enable it to achieve greater value and service by exchanging data with connected devices. Each thing is uniquely identifiable through its embedded computing system but is able to interoperate within the existing Internet infrastructure. It is one of the most advanced technology in the field of automation and robotics and this training would help lay in this field if you wish to make a career in it.

What software are required for doing this training?
All the necessary software are uploaded online which can be downloaded during training.
The installation software are compatible on Windows OS only.

Will there be any project that I will get to work on?
Yes. You will receive a kit and use this to build the IoT projects demonstrated in this course. The kit will be delivered to your address.

Will I be able to download the training content?
Yes, you will be able to download the entire course content as you progress in the training.

Will there be a certificate provided at the end of the training?
Yes, a certificate will be provided by Internshala upon completion of the training. Students may download a soft copy of the certificate through our portal.

Can the material be used by a group of students?
No. These training programs are meant for individual users. Multiple users will not be allowed to access the portal using the same account.

If you have any queries or any doubts regarding the training, please write to us at trainings@internshala.com or call us on +91 844 8444 853.