



# **CERTIFIED INTERNET OF THINGS PROFESSIONAL**

---

## **CITP**



**COURSE**  
BROCHURE



# INTRODUCTION TO THE COURSE

The Internet of Things (IoT) has become the most popular subject of interest in the past few years. It uses unique identifiers (UIDs) to transmit data via a network without the necessity of human-to-computer or human-to-human communication. But there are some cases in which even the Internet of Things (IoT) becomes the target for hackers to get into the system and take down the entire network of connected devices.

The Internet of Things presently has applications in many areas such as smart homes, elder care, the medical and healthcare industry, transportation, manufacturing, building and home automation, and V2X communications. Hence the Certified Internet of Things Penetration Tester | CIPT course by IEM Labs has become one of the most popular courses of IoT security certification in America and other locations. On completion of this course, the student will be able to successfully penetrate an Internet of Things (IoT) network and carry out an Internet vulnerability assessment.

## FOCUS AREAS

● Connectivity

● Scale

Sensing ●

Safety ●

With the course completion certificate, the student can get jobs in various reputed organizations working in the Internet of Things (IoT) as an Internet of Things Penetration Tester.

Students will be trained by Internet of Things (IoT) Professionals who have been working in this field for more than 10 years.

What makes this Certified Internet of Things Penetration Tester course much more exciting is that we provide hands-on training procedures through projects and practical-based classes throughout the entire curriculum of the course. We at IEMLabs provide both Online (through platforms like "Google Hangout Meet", "Go to Meeting", "Zoom", etc.) and

Offline mode classes. The most beneficial point for a student to get trained by IEMLabs is the "One Year Lab Access, i.e. every student from the date of admission will have access to our "Online Virtual Lab" for practicing and getting all notes, pre-recorded videos, and tools according to their course for one year free of cost.



## MARKET JOB OPENINGS

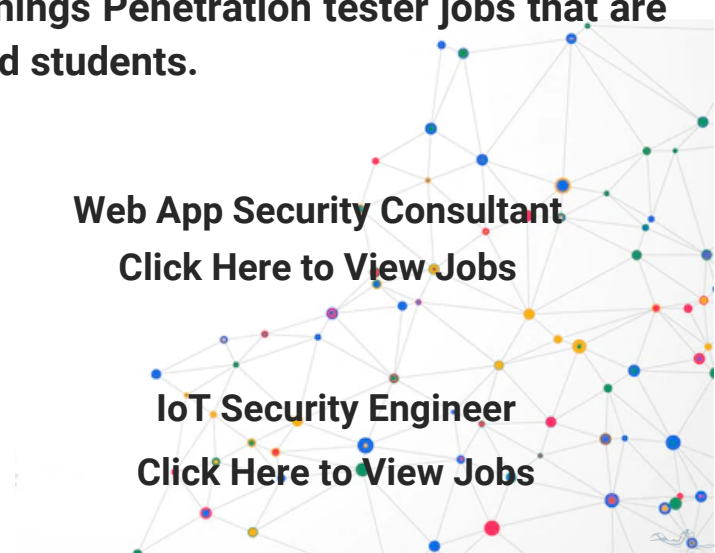
Listed below are the Certified Internet of Things Penetration tester jobs that are available for both working professionals and students.

**Penetration TEst Security Engineer**  
[Click Here to View Jobs](#)

**Ethical Hacker**  
[Click Here to View Jobs](#)

**Web App Security Consultant**  
[Click Here to View Jobs](#)

**IoT Security Engineer**  
[Click Here to View Jobs](#)



# ABOUT THE COURSE

- **Course Type:** Basic
- **Eligibility Criteria:**
  - Knowledge of Networking and Web Development
  - Minimum System Configuration Required:
    - o Intel i5 Processor
    - o 8GB RAM
    - o TTB Hard Disk
- **Batch Size:** 5 students maximum
- **Course Duration:** 40 hours

	ONLINE	OFFLINE
COURSE FEE:	13000 INR	13000 INR
TRAINING LOCATION:	ANY	KOLKATA

# COURSE CONTENT



MODULE 01	Introduction to Internet of Things (IOT)
MODULE 02	Role of Internet of Things (IOT) in Data Analytics
MODULE 03	Application of Internet of Things (IOT) & Data Analytics
MODULE 04	Smart City Development
MODULE 05	Hospital Management
MODULE 06	Real Estate Management
MODULE 07	Security System (Bank, Manufacturing) Development
MODULE 08	Defense and Aviation
MODULE 09	Disaster Management
MODULE 10	Architecture of Raspberry Pi Sensors (Temperature, Pressure, Humidity, Motion, etc.)
MODULE 11	Sensors (Temperature, Pressure, Humidity, Motion, etc.) Communication Protocols of Internet of Things (IOT)
MODULE 12	Communication Protocols of Internet of Things (IOT)
MODULE 13	Python Programming for IOT & Data Analytics
MODULE 14	Big Data Platform in Context of Internet of Things (IOT)
MODULE 15	Programming Raspberry Pi using Python
MODULE 16	Connecting Sensors over Internet of Things (IOT)
MODULE 17	Storing Internet of Things (IOT) Generated Data
MODULE 18	Transmitting, Receiving and Retrieving Data from Internet of Things (IOT)
MODULE 19	Building & Resolving Application on Internet of Things (IOT) and Data Analysis
MODULE 20	Project





*Unit: 601, Godrej Genesis Building, Block EP  
& GP, Kolkata-700091, West Bengal, India*

---

Find us on:



Toll Free: 1800 270 3002

 [www.iemlabs.com](http://www.iemlabs.com)

 [iema@iemlabs.com](mailto:iema@iemlabs.com)