IOT

CERTIFICATION IN IOT

Master's in Iot skills & and take your career to the next level!

Who can Join the Course?

- IoT courses recommend a basic understanding of electronics, programming (often in Python or C/C++), and networking.

- To understand the software aspects of IoT devices, including firmware development and communication protocols.

- Engineering Students (Electrical, Electronics, Computer Science, Mechanical, etc.): To gain specialized knowledge in a rapidly growing field and enhance their employability.

GIMPLES OF OUR SUCCESSFUL TRANSITIONS

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Google
Reviews
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Sulekha
Reviews
4.9 ★★★★★

PROGRAM CURRICULUM-I

INTRODUCTION

- What is IOT- In Depth Explanation Concepts and Technologies behind Internet of Things (IOT) The Past, Present, and Future of IOT
- Scope of IOT in India
- How large is the IOT Market in Different Domain
- Different skills required to become an IoT developer

IOT ARCHITECTURE

- IOT Network Architecture
- IOT Device Architecture
- IOT Application Architecture
- IOT cloud Architecture
- IOT DEVICE DESIGN
- Sensors – Classification & selection criteria based on nature, frequency, and amplitude of signal

- Embedded Development Boards – Arduino, Raspberry Pi
- Interfacing peripherals & Programming GPIOs – Input/output peripherals, Sensor modules
- Design Considerations – Cost, Performance & Power Consumption tradeoffs
- GETTING STARTED WITH RASPBERRY PI Introduction to Raspberry pi

GETTING STARTED WITH RASPBERRY PI

- Introduction to Raspberry pi
- Raspberry pi different model comparison
- Raspberry Pi operating system choices
- Set up your Raspberry pi Raspbian OS

PROGRAM **CURRICULUM-II**

RASPBERRY PI VS ARDUINO

Introduction To Arduino Platform
Advantages of Raspberry pi over
Arduino

HANDS ON SESSION ON RASPBERRY PI USING LINUX OS COMMANDS

- Introduction
- Linux vs other Operating system Linux basic commands Installation of packages
- Linux File handling
- Software installation on Linux

REMOTE ACCESS TO RASPBERRY

PI Remote Access using SSH
Remote Access using TightVNC

PROGRAMMING LANGUAGES

C/C++

- Embedded C
- Python

PRACTICAL SESSION ON PYTHON PROGRAMMING LANGUAGE

Program using Loops

- Program using function
- Python Libraries
- Oops concept in Python Hardware interfacing with python
- Exception Handling in Python Web connectivity with python Data storage in Python

EMBEDDED SYSTEM WITH RASPBERRY PI

- Introduction to Embedded system
- Embedded system basic block diagram
- Difference between Microprocessor and Microcontroller

PROGRAM **CURRICULUM-III**

- Key points for Choosing the Right Microcontroller
- Using Raspberry Pi in Embedded System
- Raspberry pi GPIO interfacing Led Interfacing with Raspberry pi using python
- Switch counter project using python
- DC Motor Interfacing with Relay H-Bridge Circuit
- Working of L293D
- PIR sensor interfacing with raspberry pi
- DHT22 /11 sensor interfacing with Raspberry pi

IOT COMMUNICATION PROTOCOLS

- Wired Communication Protocols – UART, USART
- Wireless Communication Protocols – Bluetooth, Wi-Fi

- Networking Protocols – OSI Reference Model, TCP/IP, Ethernet
- Application Protocols – HTTP, Web sockets, MQTT

CLOUD COMPUTING

- Overview of Computing
- Different types of computing Concept of cloud computing Architecture of Cloud Description on Iaas , Paas , Saas Top Cloud service providers
- Role of Cloud Computing in IOT Tools, API and Platform for integration of IOT devices with Cloud
- Cloud Foundry

ZENUS CAREER SERVICES

Career-oriented Session
Attend 10+ career-oriented session by industry mentors and prepare your career trajectory

Profile Building
IOT resume and LinkedIn profile to make an impression on top employers

Dedicated Job Portal Access
Get exclusive access to 20+* job posting per month on Zenus's job portal

Mock Interview Preparation
prepare with mock interviews including most asked question by top employers

1:1 Mentoring Session
Get 1:1 guidance at every step in your career transition to IOT

Placement Assistance
Placement opportunities are provided once the learner is moved to the placement pool upon clearing Placement Readiness Test(PRT)**

NO. 1 AWARD WINNING TRAINING COMPANY

Awared By Ex-Indian Cricketer Chetan Sharma Sir

Awared By Ex-Indian Cricketer Sandip Patil Sir

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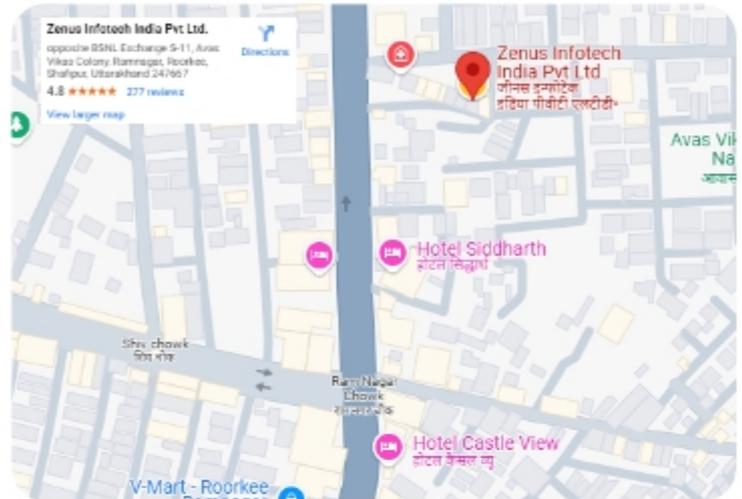Telephoone Exchange, Roorkee

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STUDENT TESTIMONIALS

Shivant Tyagi
★★★★★

Our experince with ZENUS
INFOTECH has been very good. its
the best company in india for
industrial training and placements.

Abdul Raoof
★★★★★

Good teches.And Good teacher
.Zenus teacher is helping
person that solve the asking
question .Zenus is a wonderful
platform

Piyush Kumar
★★★★★

I feel my self with a great weight
of knowledge after doing training
from Zenus Infotech

Prabhat Saini
★★★★★

Extremely nice atmosphere to
learn softwares and
knowledgeable and helpful
faculty with great experience.

Sumit Pant
★★★★★

Highly skilled staffs well as
good place to work ..the
faculties are very good teachers

Ishant Chauhan
★★★★★

Highly experienced and project
oriented training received with
full support from the trainner.
Thanks Zenus Infotech