



**MSME-TOOL ROOM, HYDERABAD**  
**(CENTRAL INSTITUTE OF TOOL DESIGN)**

(A Government of India Society, Ministry of MSME)  
Balanagar, Hyderabad, PIN - 500037. Ph No.040-23771959  
Website: [www.citdindia.org](http://www.citdindia.org)



**Crash Course Description (14.0)**

**Certificate Program on Industrial Internet of Things (IIoT)**

**Description:** -The industrial internet of things (IIoT) is a term that describes the use of smart devices, sensors, and networks to connect and optimize industrial processes, such as manufacturing, energy, transportation, and agriculture. The IIoT can enable data collection, analysis, and automation, leading to improved efficiency, productivity, quality, and safety. The IIoT is also a key component of Industry 4.0, which is the digital transformation of the industrial sector.

**Take Away :-** After Completion of this course, the trainee will have hands on expertise in the following areas:

- Bring your devices online
- Data Automation
- Data Visualization
- Serve your Distributors
- Apps for Installers and End-Users
- Integrate your Services

**Eligibility:** Pursuing/Completed Diploma (ECE/ECM/EEE) /B.Tech/BE/ME/M.tech  
(Electronics/ECE/EEE)/Bsc/MSc(Electronics)

**Duration:-** 10 days. Every day 2 hrs. online Class.

**Fees: -** Rs 3000/- (GST Included)



**MSME-TOOL ROOM, HYDERABAD**  
**(CENTRAL INSTITUTE OF TOOL DESIGN)**  
(A Government of India Society, Ministry of MSME)  
Balanagar, Hyderabad, PIN - 500037. Ph No.040-23771959  
Website: [www.citdindia.org](http://www.citdindia.org)



### **Crash Course Description (Industry 4.0)**

## **Certificate Program on Introduction to Open-Source Networking Technologies**

### **Description: -**

- This course focus on Explore open source networking projects, from The Linux and beyond, that are shaping the future of networking and telecoms.
- This course covers the open networking stack from top to bottom; starting from networking hardware disaggregation and modern 100G and 400G switches, through network operating systems, network controllers, virtualization, and orchestration.
- Develop an understanding of the use cases and technical options for modern open networking in enterprises, service providers, and cloud providers. Become familiar with the following open source networking projects and their use cases:
  - ✓ Open Compute Project, ONIE, Akraino
  - ✓ FD.io, OVS, IO Visor, DPDK, Open Dataplane, P4
  - ✓ OpenSwitch, Open Network Linux, FRR, DANOS, SONIC, FBOSS
  - ✓ OpenDayLight, Tungsten Fabric (OpenContrail) , ONOS, CORD, Open Security Controller
  - ✓ ONAP, OPNFV
  - ✓ PNDA, SNAS.

### **At a glance: -**

- Level: Introductory
- Language: English
- Mode of Teaching: Online & Offline
- Duration: 8 weeks
- Price: Rs: 4,720/- (GST Included)
- Class: 2 hours per day
- Eligibility: Pursuing/Completed (Diploma (Mechanical/ECE/ECM/EEE/CSE/Allied) /B.Tech/BE/ME/M.tech (Mechanical/Electronics/ECE/EEE/CSE/Allied)/BSc/MSc (Electronics/CSE/Allied)/Bcom/Mcom(Computers))
- Batch Commencement: Every Month First and Third Wednesday

### **What you'll learn:-**

- The software-defined and open-source networking landscape
- How networking hardware is being disaggregated
- Open network operating systems (NOS) and how they run on different networking hardware
- Ways to automate networking tasks
- How software-defined network (SDN) controllers manage underlay networks
- Network function virtualization and how it can help reduce the complexity of today's data center environments
- Orchestration tools that can build a bridge between applications and networking

### **Ways To Take This Course:**

- Log on to Citd Facebook or Citd LinkedIn or Citd Instagram
- Log on to [www.citdindia.org](http://www.citdindia.org)
- On the Home page right side down please click on Crash Courses In ESDM, LCA & Industry 4.0 Departments.
- You will find Notification and Registration Form links on the page.
- To know about Course details please click on Notification link.
- To take registration please click on Registration Form link and follow the instructions on the page.
- For this course you have to choose Industry 4.0 Department.
- For Offline registration Please call to front office desk phone No: - 040-29561793 or Mobile No: +91- 9908211787 or what's app No: +91-9908211787.

Sd/-  
Principal Director



**MSME-TOOL ROOM, HYDERABAD**  
**(CENTRAL INSTITUTE OF TOOL DESIGN)**

(A Government of India Society, Ministry of MSME)  
Balanagar, Hyderabad, PIN - 500037. Ph No.040-23771959  
Website: [www.citdindia.org](http://www.citdindia.org)



**Crash Course Description (Industry 4.0)**

**Certificate Program on PyTorch and Deep Learning for Decision Makers**

**Description: -**

- This course introduces you to PyTorch, one of the most popular deep learning frameworks, revealing how it can be used in company to automate and optimize processes through the development and deployment of state-of-the-art AI applications.
- This course will help you identify the most common use cases of AI in the industry and how PyTorch's ecosystem and the commoditization of deep learning models can help you integrate them into your business.
- You will also learn why ensuring data quality is critical for the successful deployment of AI applications, and why getting the right data should be the top priority for any AI project.
- This course will discuss several trade-offs involved in choosing the appropriate model for the task at hand: build vs. buy, black vs. white box, and the risk and cost of delivering wrong predictions.
- Finally, the course will discuss what happens after an AI application is deployed, addressing topics such as the inherent limitations of AI models, the mitigation of risks and vulnerabilities, and the challenge of data privacy.
- This course targets technical and non-technical individuals interested in understanding how deep learning and PyTorch can be used to create business value through the development and deployment of AI applications.
- LFS116x provides an overview of the AI landscape, focusing on PyTorch's ecosystem, while giving you a solid understanding of AI's current capabilities and it will help you make informed decisions about the development and maintenance of AI projects while taking in consideration key aspects related to data quality, model performance, and security.

### **At a glance: -**

- Level: Introductory
- Language: English
- Mode of Teaching: Online & Offline
- Duration: 4 weeks
- Price: Rs: 2,360/- (GST Included)
- Class: 2 hours per day
- Eligibility: Pursuing/Completed (Diploma (Mechanical/ECE/ECM/EEE/CSE/Allied) /B.Tech/BE/ME/M.tech (Mechanical/Electronics/ECE/EEE/CSE/Allied)/BSc/MSc (Electronics/CSE/Allied))
- Batch Commencement: Every Month First and Third Wednesday

### **What you'll learn:-**

- Discuss typical use cases of AI across industries
- Understand the role and importance of PyTorch in the current AI landscape
- Discuss the importance of data quality and its overall impact on the performance of a model or application
- Understand the trade-offs involved in developing or buying a model or application
- Identify the challenges and risks involved in deploying an application: biases, attacks, privacy issues, and more.

### **Ways To Take This Course:**

- Log on to Citd Facebook or Citd LinkedIn or Citd Instagram
- Log on to [www.citdindia.org](http://www.citdindia.org)
- On the Home page right side down please click on Crash Courses In ESDM, LCA & Industry 4.0 Departments.
- You will find Notification and Registration Form links on the page.
- To know about Course details please click on Notification link.
- To take registration please click on Registration Form link and follow the instructions on the page.
- For this course you have to choose Industry 4.0 Department.
- For Offline registration Please call to front office desk phone No: - 040-29561793 or Mobile No: +91- 9908211787 or what's app No: +91-9908211787.

Sd/-

Principal Director