

Course title: Introduction to basic computer Architecture and

Networking

Course Prerequisite: None

Course duration: 2 training days

Course coordinator: INTELL VISION

Course overview

In this short course, students will be introduced to basic computer architecture, how a computer works internally, network components and the OSI and TCP/IP models, how computers communicate through the local areas, wide area and internet network, and finally types of software deployment models such as local host, on-premise, cloud and hybrid deployment models will be covered.

Course objective

By the end of this course students should be able to:

- Understand the fundamentals of computer architecture such as CPU organization, memory hierarchy and input/output systems
- Gain knowledge about network components, OSI and TCP/IP models
- Understand how computer communicates through Local area, wide area and internet networks
- Understand types of software deployment models such as localhost, onpremise, cloud and hybrid deployment.

Course content

1. Basic computer architecture

- Motherboard
- Processors
- RAM
- Chipsets

2. Introduction to networking

- Point-to-point connection
- Local area networks
- Wide area networks
- The internet

3. Introduction to cloud deployment models

- Private cloud
- Public cloud (AWS, Azure and google cloud)
- Hybrid

4. Module discussion forum

5. Module survey(optional)

References

Books:

- "TCP/IP Illustrated, Volume 1: The Protocols" by W. Richard Stevens
- "Computer Organization and Design: The Hardware/Software Interface" by David A. Patterson and John L. Hennessy
- "MuleSoft Cookbook" by Dr. Zakir Laliwala, Abdul Samad, and Azaz Desai