



# Lecture (00) Road Map

---

By:

**Dr. Ahmed ElShafee**

# About the course

<b>Course name, Code</b>	<b>Practical Applications in Networks I</b>
Pre-requisite	Network I
Credit hours	3
Number Sessions	12
Date, time, place	Sunday 09:00 ~ 12:00
Text book	<i>Lecture notes</i>

<b>Email</b>	<b>Ahmed.ElShafee@ACU.EDU.EG</b>
<b>Presentations and materials</b>	<b><a href="http://www.aelshafee.net">www.aelshafee.net</a></b>

# Objectives

---

- This course divide to two parts:
- Part1 : **Network Infrastructure Engineering (Network D&O&M):**
- This part provides an introduction to and hands-on practice with Internetwork Operating Systems (IOS).
- Students are instructed how to build LAN basic elements; cables, connecting switches, and connecting PCs
- Students are instructed how to configure switches and routers, PCs and servers.
- provides instruction in the concepts and practices in Local Area Networks (LANs), and Virtual Local Area Networks (VLAN).
- The underlying theories of IOS (CISCO), network protocols, routing, network security, and LAN switching are also explored.

- 
- **Part2: Network Security Engineering (EH) :**
  - This part covers a few topics related to network security as follows:
    - Scanning Networks
    - System Hacking
    - Trojans and Backdoors
    - Viruses and Worms

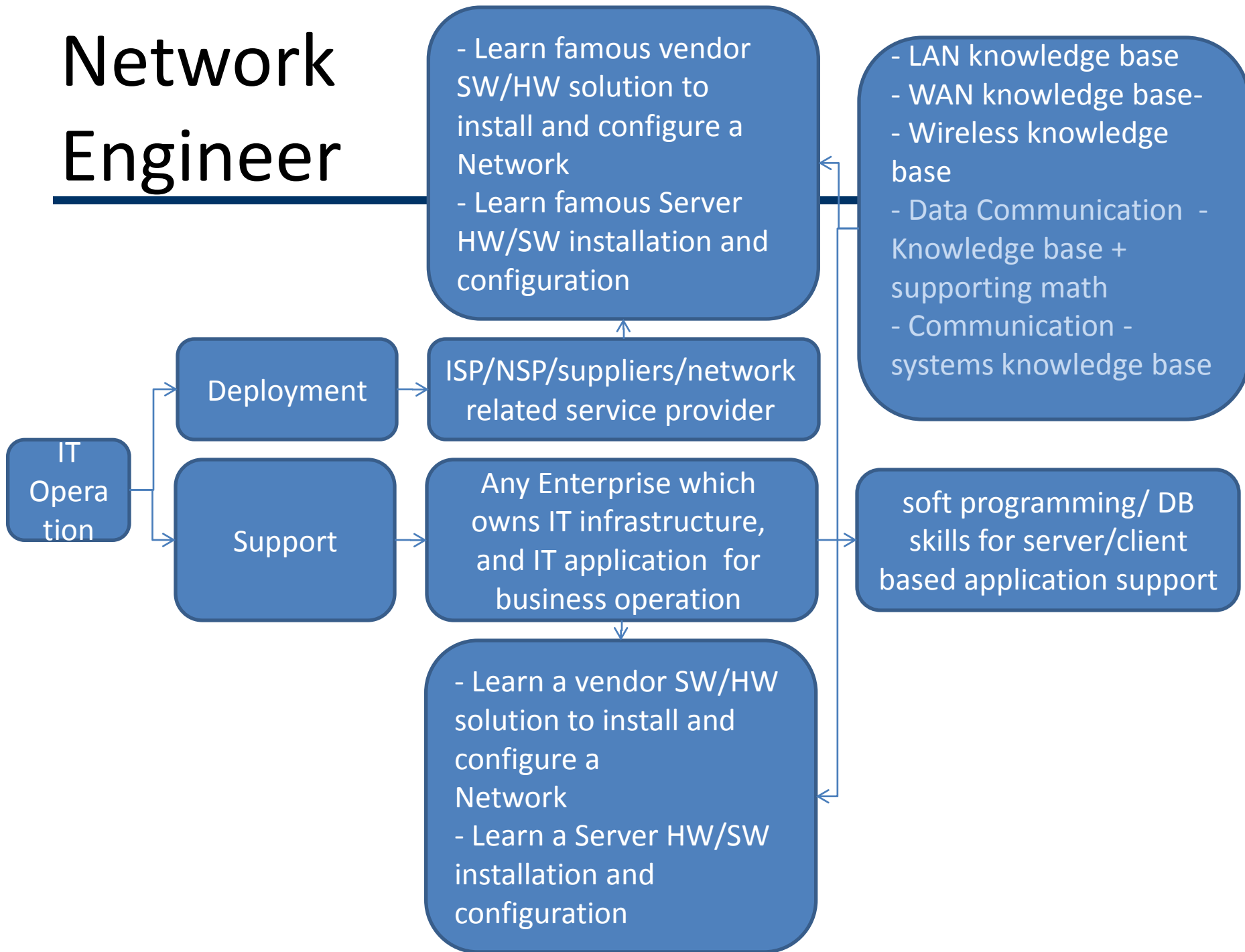
# Grading scheme

---

- 

item	Grade
Final	40
midterm	20
participation	10
attendance	$(12 * 10 / 12) = 10$
Lab	10
Final Lab + Project	10

# Network Engineer





**Thanks,..**  
**See you next week (ISA),...**