



**WMO Arts & Science College**  
**Department of Computer Science**  
**Hardware Assembling &**  
**Software Installation**

**Course Duration – 35 hours**

**ALLOCATION OF TOTAL HOURS FOR EACH CHAPTER:**

Sl No	Chapter	Theory in Hours	Practical in Hours
1.	Introduction about computer	1	0
2.	Basic Networking concepts	2	3
3.	Introduction to various networking devices	1	3
4.	Inside the PC	2	4
5.	Type of Operating Systems	2	4
6.	Introduction to Operating Systems, Basic Software & Troubleshooting Problems	3	10
		11	24

**DETAILED SYLLABUS**

1. Introduction about Computer
  - 1.1. Basics of computer
  - 1.2. Organization of computer.
  - 1.3. Software and hardware.
  - 1.4. Input/output devices.
2. Basic networking concepts,
  - 2.1 Network topologies:
    - 2.1.1 LAN, WAN, MAN, PAN, CAN.
  - 2.2 Networking Model

- 2.2.1. The OSI model
    - 2.2.2. TCP/ IP Model
  - 2.3 Network adapters.
  - 2.4 Introducing protocols.
  - 2.5 Cabling and troubleshooting.
- 3. Introduction to various networking devices:
  - 3.1. Routers.
  - 3.2. Switches.
  - 3.3. Modems.
  - 3.4. Hubs etc.
  - 3.5. Wired and Wireless technology.
- 4. Inside the PC:
  - 4.1. Opening the PC and identification.
  - 4.2. Study of different blocks,
  - 4.3. Assembling and disassembling.
- 5. Network basic and configuration:
  - 5.1. Setting IP addresses,
  - 5.2. Sharing files and folders.
  - 5.3. Network troubleshooting.
  - 5.4. PING test, ipconfig etc.
- 6. Introduction to Operating Systems
  - 6.1. Types of Operating Systems
    - 6.1.1. Microsoft Window
    - 6.1.2. UNIX, Linux, Mac OS,

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