

WMO Arts & Science College, Muttil
Add on Course Offering Department of Computer Science
SYLLABUS FOR
Name: PC Hardware & Networking
Course Duration – 35 hours

ALLOCATION OF TOTAL HOURS FOR EACH CHAPTER:

SI 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.	Network basic and configuration	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,

 - 6.2 .Basics of Internet and Intranet:
 - 6.3 .Types of Internet connections:
 - 6.3.1 Dialup, Broadband, Leased Line, Wi-Fi, Wi-Max, 2G, 3G, 4G, WWW, E-mails, Search Engines, Social Networking.
 - 6.3.2 Cloud application.
 - 6.3.3 Video Conferencing.

 - 6.4. Recovery and backup.
 - 6.5. Essential security measures.
