

**Unit : 1** **[20%]**

**Computer Basic**

Various types of computer, Computer hardware, All ports Software's Hardware

**Introduction of operating systems**

Introduction of windows vista, Introduction of Windows 7, Introduction of Windows XP

**Unit : 2** **[25%]**

**Hardware**

Troubleshooting Basic, Maintenance journal, Working through the problem, Diagnostic software, Diagnostic hardware, Tool kit, System tools, Control panel

**Devices**

Keyboard, Mouse, Monitor, Printer, Optical media, Hard disk drive, Floppy disk drive

**Unit : 3** **[30%]**

**Microprocessor**

CISC / RISC, Desktop microprocessor, Pentium series (P1 to Core I 7), AMD series  
Problem with microprocessor

**Motherboard**

Component of motherboard, Form factor, Power & SMPS, BIOS setup, Beep code

**Memory**

DRAM, SRAM, CHIP & Modules, Troubleshooting Memory

**Unit : 4** **[25%]**

**Basic Data Recovery**

Partitions, Master boot record, FAT/ NTFS, Restore Data, Building Pc, Equipment

**Assembling**

Software application, I/O interfaces, I/O devices, Processing, Testing

**Text Book:**

1. Comdex Hardware and Networking Course Kit  
By Vikas Gupta,  
published by dreamtech press Edition 2010

**Reference book:**

1. The Complete Reference PC Hardware,  
By craig zacker, John Rourke  
Published by TATA McGraw Hill

## 204: Hardware Configuration & Solutions [Practical List]

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1. Introduction of Parts (Processor, Motherboards, RAM, Floppy Drive, CD/DVD Drive, Hard disk, Monitor, Keyboard, Mouse, SMPS, Printer, Scanner, ext. Devices etc..)
2. installation of Operating Systems
3. (Windows 98, Windows XP, Windows Vista, Windows 7, Windows Server 2003)
4. Introduction of All Ports, Sockets, Slots, Chipset
5. Assembling / Disassembling System
6. Troubleshoot Problems and Solve It.
7. Installation of Drivers and Application Software
8. Attach and Install Additional Devices like Printer, Scanner,
9. Installation of Antivirus and set Protection
10. Troubleshoot with chipset like Transistor, Capacitor,
11. Cylinder, Bios, CMOS, Add. Cards etc..
12. Data Prevention / Recovery