

COMPUTER HARDWARE SYLLABUS

| No | Day | Description | Duration | Tips Practical | Class |
|----|-------|---|----------|----------------|---------------|
| 1 | Day1 | What is Computer, Characteristics - Speed, Accuracy, Storage, Dilligency, Versatality, History of computer, Classification of Computers, Block Diagram Input & Output devices. | 1.30 hrs | T/P | Hardware Tips |
| 2 | Day2 | Types of Computer, Computer Devison- Hardware, Software & Firmware humanware, Software-Systems Software, Application Software, Conversions-Binary-Decimal What is operating Systems, types of O/s. | 1.30 hrs | T/P | Hardware Tips |
| 3 | Day3 | Internal Commands: Dir, Date, Time, Version, Volume, Path, Prompt, Help, Cls, Copy con, Copy, Edit, delete, sort, Md, Rd, Cd, Cd.,Cd \ and Rd. External Commands: Format /s /q /u, Fdisk, Attrib +r -r, +h -h, Move, Mem, Label, Doskey, And etc | 1.30 hrs | T/P | Hardware Tips |
| 4 | Day4 | Dos Practicals | 1.30 hrs | T/P | Hardware Tips |
| 5 | Day5 | What is Booting,Internal&Externaldevices, External:- Monitor,Printer,Keyboard,Mouse,Plotter Scanner, Mic, Camera, DVD,penadrive, Speaker ExternalHarddisk,ExternalOpticalDrive, InternalDevices: CPU, Motherboard,RAM,ROM, harddisk, floppydrive, cd dirve, smps, addsoncards: - vga card, sound card, ram card, usbcad, tv tunrecard debugg card,monitor crt lcd tft touch screens function, size companies rates troubleshootings | 1.30 hrs | T/P | Hardware Tips |
| 6 | Day6 | printer definitions,impact&non impact printer types of printer dot matirx printer inkjet printer laser printer all in one printer printer manufacturing companies prise list troubleshootings | 1.30 hrs | T/P | Hardware Tips |
| 7 | Day7 | keyboard,keyboard controller,keyboard interface mouse, mouse interface, scanner scanner interface mic, plotter bits & bytes troubleshootings manufacturing companies & price list pendrive dvd drive , external harddisk speaker camera types functions companies rates and troubleshootings | 1.30 hrs | T/P | Hardware Tips |
| 8 | Day8 | internal drivers what is cpu what is motherboard mothboard history chipsets chipsets motherboard original motherboard motherboard components companies rates troubleshootings | 1.30 hrs | T/P | Hardware Tips |
| 9 | Day9 | processor processor history processor types companies rates troubleshootings | 1.30 hrs | T | Hardware Tips |
| 10 | Day10 | Memory what is Memory RAM ,History types of memory EDO SD RD DDR DDR2 memory capacity bus speed ROM ROM Types Bios companies rates troubleshootings | 1.30 hrs | T/P | Hardware Tips |
| 11 | Day11 | Hard disk: Working functions, types of harddisks, Harddisk controller, HDD interface, hard disk capacity, Companies, Rates and Troubleshootings. | 1.30 hrs | T/P | Hardware Tips |
| 12 | Day12 | Storage devices: Floppy drive, FDD controller, Floppy interface,capacity, Size,CD Drive CD Rom,CD Writer, DVD reader, DVD writer, CD/DVD interface,Controller,Companies,CD-capacity, Working functions, Companies, Rates&Troubleshootings, SMPS,Types,Working functions & etc. | 1.30 hrs | T/P | Hardware Tips |
| 13 | Day13 | ADD-on cards: Video cards (VGA,SVGA,AGP), Sound card (PCI & ISA), USB card, Ethernet card, TV Tuner card, Debug card, Manufacturing functions Rates, troubleshootings. Add on cards Interfaces. | 1.30 hrs | P | Hardware Tips |
| 14 | Day14 | What is Assembling, System configurations details, Rates,P3 Systems Assembling, P4 System Assembling, How to buy branded systems? | 1.30 hrs | P | Practical |

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| 15 | Day15 | Assembling practicals & Videos | 1.30 hrs | P | Practical |
| 16 | Day16 | Installation: Working with BIOS (CMOS Setup), partitioning, Formatting, OS installation & Driver installation, Tools: Fdisk and DM Windows 98 installation. | 1.30 hrs | P | Practical |
| 17 | Day17 | Partitioning, Formatting using windows XP OS & installation. | 1.30 hrs | P | Practical |
| 18 | Day18 | Working with XP, Creating files & folders, Notepads, Wordpads, Paint, Desktop Properties, Control pannels, Registry, MS.Config & etc. | 1.30 hrs | P | Practical |
| 19 | Day19 | Drivers installation (VGA,Sound,Ethernet,Chipset, USB, Keyboard, Mouse, Monitor, Printer) | 1.30 hrs | P | Practical |
| 20 | Day20 | Application Software: Office, Autocad, Tally, Photoshop, Corel draw, Pagemaker, Dremweaver, Illustrator, flash. | 1.30 hrs | P | Practical |
| 21 | Day21 | 3'rd party software: Winzip, WinRAR, Winamp, Windows Media player, power DVD, Media Player, Nero, Acrobat reader, Direct X, Messanger: Yahoo, MSN, Gtalk | 1.30 hrs | P | Practical |
| 22 | Day22 | Modem Installation, Modem configuration, Internet connection types, Email, Out look configure, Chatting and Troubleshooting | 1.30 hrs | P | Practical |
| 23 | Day23 | Antivirus Installation: Virus cleaning, Virus updation and patches updates. | 1.30 hrs | P | Practical |
| 24 | Day24 | Windows 2000 installation & Tips | 1.30 hrs | P | Practical |
| 25 | Day25 | Windows 2003 installation & Tips | 1.30 hrs | P | Practical |
| 26 | Day26 | Hardware related troubleshooting: Keyboard Troubleshooting, Assembling Troubleshooting, Monitor Troubleshooting and Printer Troubleshooting | 1.30 hrs | P | Practical |
| 27 | Day27 | Hardware related troubleshooting: Mouse Troubleshooting, Motherboard Troubleshooting, Processor Troubleshooting, Memory/RAM Troubleshooting, CD/DVD R/W drive Troubleshooting, Hard disk Troubleshooting, SMPS Troubleshooting, PCI slot Troubleshooting, Add-on Card Troubleshooting | 1.30 hrs | P | Practical |
| 28 | Day28 | OS related troubleshooting | 1.30 hrs | P | Practical |
| 29 | Day29 | 3rd party related troubleshooting. | 1.30 hrs | P | Practical |
| 30 | Day30 | Common Troubleshooting, Revision & Test. Virus Removal, IE Troubleshooting, O.E Troubleshooting | 1.30 hrs | P | Practical |