**Syllabus of Hardware & Networking**

**Course Duration: 180 Days (180 Hours)**

1. **Motherboard** (40 Hours)

**Identifying different types of Motherboard**

* AT
* Full AT
* Baby At
* NLX
* ATX
* Micro ATX
* Flex ATX
* BTX
1. **Identifying different components on Motherboard** (40 Hours)
* North Bridge
* South Bridge
* BIOS Chip
* CMOS Chip

 **Expansion Slots**

* ISA
* EISA
* PCI
* AGP
* PCIe
* PCIx
* AMR
* CNR

**Memory Slots and External Cache.**

* EDO RAM
* NON-EDO RAM
* SD RAM
* DDR RAM
* DDR-2 RAM
* SODIMM
* MICRO DIMM

**Processor slots and Sockets**

* DIP
* PGA
* SEC
* BGA
* LGA

**Peripheral ports and connectors**

* Key-Board Connectors
* Mouse Connector
* USB Ports
* Game Ports
* LAN Connector
* VGA Connector
* Audio Connector
* On board disk drive Connector
* Sata Connector
* Floppy Connector
* Power Connector
* Jumpers DIP Switches
* Firmware
1. SMPS UNIT (Power Supply) (30 Hours)
* Identify two different types of S.M.P.S. Unit
* Identify different types of connectors
* How to Measure different Voltage from S.M.P.S.
1. Hard Disk Drive (20 Hours)
* ATA HDD
* SATA HDD
* USB HDD

 5) Assembling CPU (50 Hours)

* Cabinet
* Cooling System
* Input Device
* Output Device
* Adapter Cards
* Ports & Cables
* Motherboard
* Processor (Microprocessor)
* Memory
* Storage Devices
* Power Supply. (Switch Mode Power Supply)