

PC assembly and maintenance

This course is designed to make students equipped with PC hardware components, its assembly and maintenance.

Course Outcome

- CO1 : To equip with basic knowledge of parts of computer.
- CO2 : To have basic idea regarding hardware assembly in a PC
- CO3 : To acquire some practical knowledge in hardware assembly and its maintenance

1. Introduction to PC Hardware: 10 Hrs

Basic Computer Organisation - Study of basic I/O systems, Types of Memories- CPU (Central Processing Unit)- ALU and Control unit- Types of Processors, Different types of Motherboards Different types of data cables and connectors.

2. BIOS Configuration: 5 Hrs

Study of BIOS Set-up- Advance set-up, Boot configuration, Boot Menu.

3. Installation of OS (Operating Software) and device drivers 15 Hrs

Installation of any windows and linux OS. Formatting of Hard disk, Partitioning of Hard disk in different logical drives, Disk clean up. Installation of device drivers for LAN connectivity. Configuring and installing external devices like printer, scanner etc.

4. Computer Assembly, Diagnostic and troubleshooting of PC and maintenance of PC: 12 Hrs

Computer Assembly a practical Demo, POST (Power on Self Test), identifying problems by Beep codes errors, checking power supply using Multi-meter, Replacement of components etc. Maintenance of PC.