

**NIELIT Extension Centre Chuchuyimlang
SYLLABUS:**

Course: PC ASSEMBLY & MAINTENANCE

Duration: 2 months

1. Introduction to PC Hardware: 10 Hrs

Study of basic I/O systems, Types of Memories- Static RAM and Dynamic RAM, ROM, PROM, EPROM, EEPROM, CPU (Central Processing Unit)- ALU and control unit.
2. Motherboard and Processor: 20 Hrs

Study of different types of Motherboards, Motherboard Configuration, Identifying Internal and External connectors, Types of data cables, Types of Processor- Intel Pentium IV, Dual core, Core 2 Duo, Quad processor etc.,.
3. BIOS Configuration: 5 Hrs

Study of BIOS Set-up- Advance set-up, Boot configuration, Boot Menu.
4. Installation of OS (Operating Software) 30 Hrs

Windows XP, installation of different types of Service Packs, Vista and Windows-7 etc.
5. Hard Disk: 10 Hrs

Formatting of Hard disk, Partitioning of Hard disk in different logical drives, Disk defragmentation, Disk clean up, Scan disk etc.,.
6. Installation of Device Drivers: 10 Hrs

Different types of Motherboard drivers, LAN, Audio, and Video.
7. Configuration of External devices: 10 Hrs

Physical set-up of Printers- Performing test print out, Printing of document etc, Scanner set-up, Webcam, Bluetooth device, Memory card reader etc.
8. Diagnostic and troubleshooting of PC: 20 Hrs

POST (Power on Self Test), identifying problems by Beep codes errors, checking power supply using Multi-meter, Replacement of components etc.
9. Maintenance of PC: 5 Hrs
