

NIELIT CHENNAI

Program Details

“Certificate Course in PC Assembly & Maintenance”

Objective:

This Certificate course will enable the students to understand the fundamentals of PC assembly and maintenance. After completion of the course the incumbent will be able to entry level job profile will be junior technician and with experience he/she can be progress to senior technician. This helps the small business communities, part time job etc. This course is designed to be more practical oriented.

Target Audience: Minimum SSLC, HSC & above

Batch Size: 20

Topics covered:

- Understanding the basic of computer
- setup Computer BIOS
- troubleshoot and recovery of Computer
- Networking Fundamentals skills

Duration: 80 hours (08 Hours per day, 10 working days)

Timing: 10.00 AM to 6:00 PM

Date: 07/05/2018 to 18/05/2018

Venue & lab: NIELIT, Chennai Centre, ITA Lab

Course fee: Rs.4, 720/-

(Tuition fee- Rs.3, 750 /-, Registration fee – Rs.250/-, GST (18%) – Rs.720/-)

- Registration fee is non-refundable
- Full tuition fee is waived for limited no. of SC/ST candidates

Course in-charge: D. Noble Raj, Scientist ‘B’

Email ID: noble@nielit.gov.in

Phone: 044-24421445

For special/weekend batches, contact course in-charge

How to apply:

- ❖ Registration needs to be done at our Centre before starting the course. To get the admission fill the registration and bringing the following:
 1. Duly filled in registration form
 2. Course fees - in the form of DD or Online Transaction (Please see the Mode of payment details)
 3. Self – attested copy Minimum Qualification certificate
 4. Self – attested copy of identity proof
 5. Self – attested copy of community certificate (if availing SC/ST fee concession)

Mode of payment:

- ❖ Course fee may be paid by any one of the following modes:
 1. DD drawn from a nationalized bank (preferably SBI) in favour of “NIELIT Chennai” payable at Chennai.
 2. Online transaction: Account No: 31185720641 Branch : Kottur (Chennai), IFS Code: SBIN0001669.
 3. Pay through nationalized bank Debit card (Service charges applicable)

Sl. No	Module Name	Duration (in Hrs.)
		Theory & Practical
1.	Basics of Computer	5
2.	Computer Monitors (CRT/LCD/LED) & Memory	11
3.	Interfacing, partitioning of Secondary	6
4.	Configuration Computer	9
5.	Understanding Computer Buses	4
6.	Understanding Computer I/O Ports, graphic cards	5
7.	Installation of OS /Printer/ Modem /	10
8.	setup BIOS	7
9.	Recover & Troubleshoot	9
10.	Enhancing Skills for Preventive maintenance & Anti-Virus	7
11.	Networking Fundamentals skills	7
Total Duration		80 Hrs.

DETAILED COURSE CONTENT

1. Basics of Computer:

Identification of various parts of Computer. Connection of various devices like CPU, Monitor, KB, mouse etc. Shut down procedure. Working in DOS & in Windows. Opening of CPU Identify various cards like Motherboard inside the CPU. Identify Clock section in the CPU. Soldering and De-soldering skills.

2. Computer Monitors (CRT/LCD/LED) & Memory:

Tracing of various Primary memories i.e. RAM and ROM on the board and their capacity/size. Hard disk and Identify its specifications. Connection of Hard disk in the CPU.

3. Interfacing, partitioning of Secondary

Identify secondary memory like Hard Disk and its types & size & other specifications. Formatting Hard disk, Partitioning of Hard disk in different logical drives, Disk defragmentation, Disk clean up, Scan disk etc.

4. Configuration Computer

Identification & connection of different types of Motherboard Configuration of Motherboard Identifying Internal and External connectors and data cables

5. Understanding Computer Buses

Acquiring detailed knowledge about System bus and its types, functions and features

6. Understanding Computer I/O Ports, graphic cards

Identification & information of Different types of I/O Ports available in the CPU and their purpose Identify Graphic & other cards and their function & testing.

7. Installation of OS /Printer/ Modem /

Installation of Operating System i.e. DOS / Windows Interface Printers, Scanner, Modem etc. Installation of Printer, Driver, Modem etc.

8. setup BIOS

Set up BIOS, Boot configuration, Boot Menu etc.

9. Recover & Troubleshoot:

Can Take Backup file. Restore point, Automated System Recovery (ASR). Use of POST (Power on Self-Test). Identifying problems by Beep codes errors, Troubleshooting Boot Failures, Replacement of components etc.

10. Enhancing Skills for Preventive maintenance & Anti-Virus

Computer maintenance and Security Running of System utility. Running of virus protection programme.

11. Networking basics

Identify Networking Components- switches, bridges, routers, Gateways etc. Use of various networking components. Identify and use of various Transmission media- Guided media and Unguided media