

CERTIFICATE COURSE IN *COMPUTER HARDWARE AND SOFTWARE INSTALLATION*

ABOUT THIS COURSE

This certificate course is offered by the Department of Physics – EEM (SF). The course will teach you the basics of Computer Hardware and Software. It will provide foundational understanding of how computers process information through hardware and software. It will also teach learners about the different types of Hardware and the various Computer Hardware components that make up a computer. The course will also cover operating systems, programs and apps, network fundamentals, the Internet, and will touch on internet security and ethics.

WHAT YOU WILL LEARN

You will be able to

- Identify the basic hardware components of a computer.
- Explain how software creates a functional and productive computer.
- Build a basic computer.

COURSE STRUCTURE

- Theory 20 Hours
- Practical 18 Hours

COURSE CONTENT

Module 1:

- Basic concept of Motherboard
- Motherboard – removing, installing/configuring motherboards
- BIOS set up
- Types of computer memory
- Removing / installing memory
- Troubleshooting memory.

Module 2:

- Basic concept of Hard disks
- Hard disks – installing/upgrading
- Hard disk - troubleshooting, formatting

Module 3:

- Basic concept of Printer
- Printer installation
- Operating system installation - Windows XP, 7,8,10,11
- Linux – installation
- Software Installing - C, MS Office, Web Browsers, Acrobat Reader,
Adobe Photoshop and Anti viruses etc.

ELIGIBILITY

10+2, Diploma, Any Graduate

CERTIFICATE

Upon the completion of this course, Department of EEM will provide Course certificate.

75 % attendance is compulsory.

SUGGESTED READINGS

- *Computer Hardware: Installation, Interfacing, Troubleshooting and Maintenance* by K. L. James, University of Kerala, Thiruvananthapuram
- *Computer Architecture: A Quantitative Approach* by John Hennessy and David Patterson
- *Beginner's Guide to Engineering: Computer Engineering* by James Lance