



( A Venture of Chandigarh ETC Services Pvt. Ltd. )

An ISO 9001:2015 Certified Organisation with Completely Online Management System

**Website : [www.citcchandigarh.com](http://www.citcchandigarh.com)**

## Course: Certificate in Basic Hardware

**Batch Name: CBH**

**Eligibility: 10th**

**Course Start: 1st of Every Month**

**Course Duration: 90Hours**

### Courses / Modules Paper

**Module 1:**

Paper 1	Paper 2
Core Harware & PC Assembling	Installation of Application Software & Troubleshooting

### Module 1: Paper 1: Core Hardware & PC Assembling

#### 1: Basic Computer Concepts

- 1.1 Generation of Computer
- 1.2 Types of Computer
- 1.3 Characteristics
- 1.4 Block Diagram
- 1.5 CPU
- 1.6 Motherboard
- 1.7 RAM
- 1.8 ROM
- 1.9 Ports
- 1.10 Connectors
- 1.11 Vables
- 1.12 Slots and Crads
- 1.13 Bus Lines
- 1.14 Optical Disk Drive

#### 2: Electronics

- 2.1 Electronic Components
- 2.2 Number System
- 2.3 Binary Number System
- 2.4 Octal Number System
- 2.5 Decimal Number System
- 2.6 Hexadecimal Number System
- 2.7 Logic Gates
- 2.8 Flip Flops
- 2.9 Multiplexer
- 2.10 De-Multiplexer

#### 3: Input Device

- 3.1 Keyboard
- 3.2 Mouse
- 3.3 Touch Screen
- 3.4 Trackball and Joystick
- 3.5 Microphone
- 3.6 Scanning Devices
- 3.7 Bar Code Reader
- 3.8 MICR

#### 4: Output Devices

- 4.1 Monitor Printer
- 4.2 Printer
- 4.3 Speaker
- 4.4 Projector

#### 5:Storage Devices

- 5.1 Hard Disk
- 5.2 Compact Disk
- 5.3 Digital Video Disk
- 5.4 Pen Drive
- 5.5 Memory Card
- 5.6 Portable Hard Disk

### Paper 2: Installation of Application Software and Troubleshooting

#### 1: Installing Application Software

- 1.1 Application Software Introduction
- 1.2 Types of Application Softwares
  - MS Word
  - MS Excel
  - MS Access
  - MS Power-point
  - All Multimedia Softwares
    - Audio Convertors
    - Players
    - Video Encoders and Decoders
- 1.3 DOS
- 1.4 OS Installation
  - Windows 7
  - Windows 8
  - Windows 10
  - Server 2003
  - Server 2008
  - Linux
- 1.5 Drivers Updation

#### 2: Troubleshooting

- 2.1 What is Troubleshooting ?
- 2.2 Troubleshooting Techniques