



**G-TEC EDUCATION**

— G-TEC Group of Institutions —

[www.gteceducation.com](http://www.gteceducation.com)



**G-TEC  
HARDWARE &  
NETWORKING**

# HONOURS DIPLOMA IN COMPUTER HARDWARE AND NETWORKING (HDCHN)



**DURATION 432 HOURS/12 MONTHS**



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NETWORKING

# OBJECTIVE:

One year course to ensure a dazzling career in the hardware and networking sector. The course gives emphasis on practical knowledge and gives the student a detailed overview on the Computer basics, Internet, Basic and Digital Electronics, Hardware and Networking concepts. A certification in HDCHN is needed for almost all beginning computer engineering jobs.

Getting into engineering career requires a strong background in computers and networking. G-TEC prepares an engineer to get a job upon HDCHN. A Computer hardware/network Engineers should be creative, curious, and be able to analyze and pay attention to detail. They should be able to work as part of a team, so people skills are important.



## Advantages

- ❖ **50 % Practical and 50 % Theory.**
- ❖ **Professional Environment.**
- ❖ **Fast track and Regular Classes.**

# HDCHN

SEMESTER 1

**Windows  
Linux and MS-Office  
Basic and Digital  
Electronics  
Hardware**

SEMESTER 2

**Installation, Maintenance and  
Troubleshooting  
Networking  
Server Administration  
Practice and Personal Skills Development**

## Windows

Introduction to Computers

Windows 7 and windows 8

DOS

Windows Explorer

## Linux and MS-Office

Linux

MS office

Internet techniques

## **SEMESTER 1**

## Basic and Digital Electronics

Components and Devices

Measuring instruments circuits

Digital number system

Boolean algebra and logic circuits

Digital logic gates

# **SEMESTER 1**

## **Hardware**

**PC Technician Essentials**

**PC Anatomy**

**Motherboards, Processors, and  
Adapter Cards**

**BIOS**

**Power Supplies and System**

**Cooling**

**RAM**

**I/O and Multimedia Ports and  
Devices**

**Video Displays and Graphics  
Cards**

**Laptops and Portable Devices**

**Security**

**Printers**

## SEMESTER 2

### Installation, Maintenance and Troubleshooting

File systems

Partitioning, Formatting Disk drives

Installation, Configuration and Repairing of OS, Software, and Hardware

Networking in Windows and Linux

Networking Equipment's

User Management

LAN Troubleshooting

Wireless Networks and Security

### Networking

## SEMESTER 2

### Server Administration

Windows Server 2008

Terminal Services

### Practice and Personal Skills Development

On-the-job training/ practice tests

Development of Personal, Interpersonal skills and communicative skills

# CAREERS

- ❖ **Technical Support**
- ❖ **System Engineer/Administrator**
- ❖ **Hardware Engineer/Architect**
- ❖ **Network (Service) Technician**
- ❖ **Network Administrator**
- ❖ **Network Engineer**



Thank You!

