

Information Booklet Information Booklet

Course Name:

Basics in Hardware and Networking

Course Code: H1





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Hardware and Networking

1. Introduction:

The Course in Hardware and Networking helps students become industry ready for careers in Hardware and Networking immediately post completion of the course.

2. Eligibility:

A minimum educational qualification of being 10th Pass or B1/B2 from ITKC

3. Duration:

100 Hours. Two Hours each day

• Theory 25 hours

Practical 75 hours

4. Course Details:

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Type of	Professional IT Course					
course						
Syllabus						
	 Introduction 					
	 Computer Fundamentals 					
	 Introduction to Computers 					
	 Types of Computers 					
	 Introduction to Input Output Devices 					
	 Introduction to Storage Devices 					
	 Principals of Data Communication 					
	Assembling and Installation					
	 Hardware Configuration 					
	 Introduction to basic components of a typical PC 					
	Assembling a PC					
	 Formatting, Installing Operating System and other system software 					
	Troubleshooting					
	Basic Trouble shooting during the assembling					
	 Basic troubleshooting of PC 					
	Naturaliina Fundamentala					
	Networking Fundamentals Introduction to various types of publics and connectors used in					
	Introduction to various types of cables and connectors used in naturalized.					
	networking					
	 Introduction to networking and networking concepts, networking topology and protocols 					
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	The 7 Layer architect Three way handshake					
	o 7 Layer components					
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	o Repeaters, Hubs, Switches, Bridges, Routers					

- Hubs vs Switches
- Network Installation and Configuration
 - Installing the NIC Card, MAC Address
 - LAN Standards Ethernet, Token Ring
 - Structured Cabling
 - LAN Practicals
 - o IP Addressing and IP Classes
 - TCP/IP Concepts and configuration of IP Address
 - Joining computer to a AD Domain
 - Basic network troubleshooting

Introduction to Security

- Security truisms
- Security policy
- Strategies for secure network
- Ethics of computer security
- Security threats and levels
- Security plan (RFC 2196)
- Security incident handling, Containment and Eradication
- Principles of security
- Types of attacks
- Cookies
- Specific attacks sniffing

Classes of attack

- Stealing of passwords
- Social Engineering
- Bugs and backdoors
- Authentication failures
- Protocol failures
- Information leakages
- Viruses and worms
- Denial of service attacks

Computer security

- Viruses, Trogan horse and worms
- Types of viruses
- Protection of computer against virus attack
- Life stage of Virus
- Structure and components of Virus

Firewall and Proxy Servers

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COURSE DETAILS

Kinds of firewalls
Packet filters
Application level filtering
Circuit level gateways
Dynamic packet filters
Distributed firewalls
Filtering Services
Packet filtering
Implementing policies

5. Fee:

Rs. 8000/- (exclusive of Service Tax)