

Hirachand Nemchand College of Commerce, Solapur
Autonomous College
BCA I
Certificate Course in Hardware & Networking
Course Structure (Add-On Course)
Certificate Course Code: CCHN

Duration: 40 Hrs.

Sr. No.	Subjects of Study	Lectures
1	Introduction <ul style="list-style-type: none"> • Computer Fundamentals • Introduction to Computers • Types of Computers • Introduction to Input Output Devices • Introduction to Storage Devices • Principals of Data Communication 	6
2	Assembling and Installation <ul style="list-style-type: none"> • Hardware Configuration • Introduction to basic components of a typical PC • Assembling a PC • Formatting, Installing Operating System and other system software 	4
3	Troubleshooting <ul style="list-style-type: none"> • Basic Trouble shooting during the assembling • Basic troubleshooting of PC 	4
4	Networking Fundamentals o <ul style="list-style-type: none"> • Introduction to various types of cables and connectors used in networking • Introduction to networking and networking concepts, networking topology and protocols • The 7 Layer architect • Three way handshake • 7 Layer components • Repeaters, Hubs, Switches, Bridges, Routers • WAN • Hubs vs Switches 	8
5	Network Installation and Configuration <ul style="list-style-type: none"> • Installing the NIC Card, MAC Address • LAN Standards – Ethernet, Token Ring • Structured Cabling o LAN Practicals • IP Addressing and IP Classes • TCP/IP Concepts and configuration of IP Address • Joining computer to a AD Domain • Basic network troubleshooting 	7
6	Hardware Lab-I (PC Assembling & Troubleshooting)	2
7	Firewall and Proxy Servers <ul style="list-style-type: none"> • Kinds of firewalls • Packet filters • Application level filtering • Circuit level gateways • Dynamic packet filters • Distributed firewalls • Filtering Services • Packet filtering • Implementing policies 	9