



Estd: 1972
NAAC Reaccredited
'A' Grade

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Jain-Minority Institute

Hirachand Nemchand College of Commerce, Solapur

Autonomous College

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Structure and Proposed Syllabus Certificate Course in Hardware & Networking Compulsory Add on Course for B.C.A.

Semester :III		Internal Exam			No of Teaching /Learning sessions in hours.
Code: CCB	Certificate Course in Hardware & Networking	Theory	Practical	Total	
Subject Title		20	30	50	
Course Objectives	<ul style="list-style-type: none">To Train the students to acquire knowledge in PC Hardware, Software and the field of Networking.The Students will understood and gain knowledge in the basics of PC assembling and networks.				
Course Outcomes	<ul style="list-style-type: none">The student will able to know the Basic of Computer assembling and trouble shooting.This course will provide the brief knowledge of Computer networking and trouble shooting.				
Module 1	Introduction to Computer Fundamentals				6
Introduction <ul style="list-style-type: none">Computer FundamentalsIntroduction to ComputersTypes of ComputersIntroduction to Input Output DevicesIntroduction to Storage DevicesPrincipals of Data Communication					
Module 2	Hardware PC Assembling & Troubleshooting				8
<ul style="list-style-type: none">Hardware ConfigurationIntroduction to basic components of a typical PCAssembling a PCFormatting, Installing Operating System and other system softwareBasic Trouble shooting during the assemblingBasic troubleshooting of PC					

Module 3	Networking Fundamentals	8
<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 		
Module 4	Network Installation and Configuration	7
<ul style="list-style-type: none"> • Installing the NIC Card, MAC Address • LAN Standards – Ethernet, Token Ring • Structured Cabling o LAN Practical's • IP Addressing and IP Classes • TCP/IP Concepts and configuration of IP Address • Joining computer to a AD Domain • Basic network troubleshooting 		
Module 5	Firewall and Proxy Servers	9
<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 		
Module 6	Hardware Lab-I (PC Assembling & Troubleshooting)	2