SADGURU GADAGE MAHARAJ COLLEGE, KARAD

Department of Computer Science

Certificate Course in Computer Hardware & Networking

Syllabus

Unit-I Basic Hardware and Networking Content
- Basic Introduction About (Hardware & Software)
- Os installation (Windows & Linux)

Unit-II Ms-Dos command & Basic Unix command
- Hardware device (SMPS, RAM & ROM, Hard Disk, Mother Board, Processor)
- Hardware Troubleshooting
- System Assembling & Assembling
- Mail configuration & Mail Backup
- System Image Backup & Types of Data Backup
- RAID Configuration

Unit-III Introduction of Network
- Introduction (Types of Network, Topology, protocols, and Ports)
- Networking devices (Routers, Switches, Hub, Repeater, NIC Cards, Bridge)
- Networking Media (Wire, Wireless, Cables, Crimping, UTP)
- Networking Layers (OSI, TCP/IP)
- IP Addresses (Version, Classes, Types)
- Subnetting (VLSM, FLSM, CIDR, Super netting)

Practical:

Sr. No.	Name of Experiment
1.	Computer Assembling & Operating System Installation
2.	Study of different types of Network cables and Practically implement the cross-wired cable and straight through cable using clamping tool.
3.	Install and configure Network Devices: HUB, Switch and Routers.
4.	Connect the computers in Local Area Network.