

Discipline: CSE	Semester: 5th	Name of the Teaching Faculty: Suraj K. Bhujabal	
Subject: Computer Hardware Maintenance	No of Days/Week Class Allotted: 4	Semester From date: 15/09/22 To date: _____	No. of Weeks: 15

WEEK	Class Day	Theory Topics
1st 15.9.2022 To 17.09.22	1st	Introduction to Computer Centre
	2nd	Need of Management in Computer Centre
	3rd	What types of jobs carried out in Computers, Duties & responsibilities in organization.
	4th	
	5th	
2nd 19.09.22 To 24.09.22	1st	Need of Training of Staff to organize the computer centre
	2nd	Types of Computers.
	3rd	Characteristics of Super Computer, Mainframe Computer, Mini Computer, Personal Computer
	4th	Based on the data handling capabilities, the types of Computer
	5th	
3rd 26.09.22 To 01.10.22	1st	What is the site Preparation & Installation of the Computers in Computer Centre.
	2nd	Layout of Computer Centre.
	3rd	Factors need to install a Computer Centre # false Roofing, Air Conditioning, Dust Proofing
	4th	What do you mean by power conditioning equipments
	5th	

WEEK	Class Day	Theory Topics
4th 10.10.22 to 15.10.22	1st	why we need power conditioning equipments in computer centre.
	2nd	what is CVT & Describe the working principle of CVT?
	3rd	what is UPS & the working principle of ups.
	4th	what is isolation circuits & the working principle of isolation circuit.
	5th	
5th 17.10.22 to 22.10.22	1st	what is Mother board & all the components of Mother board.
	2nd	Computer mother board components & slots (processor socket / slot, memory socket etc)
	3rd	chipset, cache, BIOS, clock generator, RTC, I/O controller, power connector, key board / mouse connector, jumpers etc)
	4th	Mother board architecture, Block Diagram.
	5th	
6th 24.10.22 to 29.10.22	1st	what is processors in computers (core 2 Duo processors, Quad core)
	2nd	(core i3, i5, i7 series, AMD A10 series, Xeon processor)
	3rd	chip sets
	4th	Bus Standards (PCI, AGP, USB)
	5th	

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7th 31.10.22 to 05.11.22	1st	Types of PCI & functions of PCI. Difference between AGP & PCI
	2nd	Difference between AGP, PCI & USB.
	3rd	colour codes for Computer Devices.
	4th	colour codes for Computer ports.
	5th	
8th 07.11.22 to 12.11.22	1st	what is memory & I/O Devices in Computer.
	2nd	Types of memory Difference bet ⁿ Primary & secondary memory.
	3rd	Memory speed, Access Time.
	4th	construction of Hard Disk
	5th	
9th 14.11.22 to 19.11.22	1st	working principles of Hard Disk
	2nd	File system, Formatting, Partitioning.
	3rd	what is Removable storage & special Devices
	4th	working principles of CD, DVD external Devices, memory stick, SSD
	5th	

WEEK	Class Day	Theory Topics
10th 21.11.22 to 26.11.22	1st	Key Board Interfacing, USB, Wireless, Types of key, Keyboard matrix, Key Bouncing
	2nd	Mouse Interface.
	3rd	Printers (Types, Operation, Trouble Shooting)
	4th	Scanners (Types, Operation, Trouble Shooting)
	5th	
11th 28.11.22 to 03.12.22	1st	Displays & Graphics Cards
	2nd	LED, D/A SMD, TFT, (EI) Displays
	3rd	SMPS (Basic Principles, Operations, O/P voltage)
	4th	BIOS (Functions, setup, types of BIOS)
	5th	
12th 05.12.22 to 10.12.22	1st	Post Operation, Faults related to hardware
	2nd	Assembly of Components of Desktop computers.
	3rd	Configuring Laptops & power settings
	4th	Laptop Components (Adapter, Battery, Basic problems, RAM types, CPU types, Laptop mother board etc)
	5th	

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WEEK	Class Day	Theory Topics
13th 12-12-22 to 17-12-22	1st	Formatting, Partitioning & installation of OS.
	2nd	Trouble shooting of commonly faced problems in Desktop & Laptop
	3rd	Basic Maintenance concepts (Preventive, corrective, online)
	4th	Diagnostic Programs & tools.
	5th	
14th 19-12-22 to 24-12-22	1st	methods of Trouble shooting
	2nd	upgradation of system & application software.
	3rd	Various concepts, Antivirus.
	4th	what is network interface Devices & their Interface
	5th	
15th	1st	Network Interface card.
	2nd	Networking: interconnecting interconnecting devices such as hub, switch, router
	3rd	Types of Network cable
	4th	Types of Network connectors.
	5th	