

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
LESSON PLAN

-Discipline: CSE	Semester: 5th	No. Of period available	Name of the Teaching Faculty: SOMYA SUBHADARSHINI
Subject: Computer Hardware & Maintenance	No. Of days/per week class allotted: 04 periods per week (Mon, Tue, Thurs, Fri)		From Date 01-08-2023 To Date: 30-11-2023 No. Of Weeks: 18
WEEK	CLASS DAY		Topics to be covered
1st	01.08.2023	1	1.COMPUTER CENTER MANAGEMENT Fundamentals of Computer Hardware & Maintenance
	03.08.2023	1	1.1. Need of management in computer centre
	04.08.2023	1	1.2. Types of job carried out in computers in an organisation
2nd	07.08.2023	1	1.3. Duties & responsibility of personally involved in computer centre
	08.08.2023	1	1.4. Need of training of staffs in computer centre
	10.08.2023	1	1.5. Idea about various makes of computers
	11.08.2023	1	Assignment & doubt clearing 2.SITE PREPARATION & INSTALLATION 2.1. Lays outs of computer centre
3rd	14.08.2023	1	2.2. False roofing, Air conditioning, Dust proofing
	17.08.2023	1	2.3. Power conditioning equipment like CVT
	18.08.2023	1	2.3. Power conditioning equipment like UPS
4th	21.08.2023	1	2.3. Power conditioning equipment like Isolation circuits with principle of function Assignment & doubt clearing
	22.08.2023	1	Class Test 1
	24.08.2023	1	3.MOTHER BOARD & COMPONENTS 3.1. Components & slots (Processor socket/slot, memory sockets, chip sets)
	25.08.2023	1	3.1. Components & slots (cache, BIOS, clock generator)
5th	28.08.2023	1	3.1. Components & slots (RTC, I/O controller, power connector)
	29.08.2023	1	3.1. Components & slots (key board/mouse connectors, jumpers, PIN connectors etc)
	31.08.2023	1	3.2. MOTHERBOARD architecture & block diagram
	01.09.2023	1	3.3. Processors (core2 Duo processor, Quad core processor)
6th	04.09.2023	1	3.3. Processors (core i3, i5, i7 series, AMD A10 series Xeon processor)
	05.09.2023	1	3.4. Chip sets
	07.09.2023	1	3.5. Bus standards: PCI, AGP, USB etc.
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7th	11.09.2023	1	3.6. Colour codes for devices/ports Assignment & doubt clearing
	12.09.2023	1	Class Test 2 4.Memory & I/O devices 4.1.Primary memory & secondary memory
	14.09.2023	1	4.2.memory speed, Access time
	15.09.2023	1	4.3.Hard disk, Construction, working principles
8th	18.09.2023	1	4.4. File System, Formatting, Partitioning
	21.09.2023	1	4.5.Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
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9th	25.09.2023	1	4.6. Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)
	26.09.2023	1	4.6. Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)
	28.09.2023	1	4.6. Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)
10th	03.10.2023	1	4.7.Mouse Interfacing
	05.10.2023	1	4.8. Printers(Types, operation and Trouble shooting)
	06.10.2023	1	4.9.Scanners(Types, operation and Trouble shooting)
11th			Assignment & doubt clearing 5. DISPLAY ,
	09.10.2023		INTERNAL ASSESSMENT
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	12.10.2023	1	POWER SUPPLY AND BIOS 5.1 Displays and Graphics Cards
12th	13.10.2023	1	5.2 LCD,PLASMA,TFT,LED Displays
	16.10.2023		5.3 SMPS (Basic Principles and operations, O/P voltage)
	17.10.2023	1	5.4 BIOS(Functions, setups, types of BIOS)
	19.10.2023	1	6. MAINTENANCE AND TROUBLE SHOOTING 6.1 Assembly of Components of Desktop Computers
13th	20.10.2023	1	6.2 Configuring Laptops and Power settings
	21.10.2023 to 28.10.23		PUJA HOLIDAY
14th	30.10.2023	1	6.3 Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
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	02.11.2023	1	6.4 Formatting , Partitioning and installation of OS
	03.11.2023	1	6.5 Trouble shooting of Commonly faced problems in Desktops and Laptops

15th	06.11.2023	1	6.6 Basic Maintenance concepts(Preventive, Corrective, online)
	07.11.2023	1	6.7 Diagnostic programs and tools
	09.11.2023	1	6.8 Methods of Trouble shooting(symptom observation, analysis, diagnosis, Correction)
	10.11.2023	1	6.9 Up gradation of system and application software
16th	13.11.2023	1	6.10 Virus concepts, Antivirus Assignment & doubt clearing
	14.11.2023	1	Class Test 3
	16.11.2023	1	7. NETWORKING DEVICES AND THEIR INTERFACES 7.1 Network Interface card
	17.11.2023	1	7.2 Networking interconnecting devices such as hub, switch, Router
17th	20.11.2023	1	7.3 Types of Network cable
	21.11.2023	1	7.4 Types of Network connector
	23.11.2023	1	Overall revision Assignment & doubt clearing
	24.11.2023	1	Previous year question discussion
18th	28.11.2023	1	Previous year question discussion
	30.11.2023	1	VST