

<b>LESSON PLAN:</b>		
Discipline: <b>CSE</b>	Semester: <b>5th</b>	Name of the Teaching Faculty: <b>Mr. Ajit kumar Behera</b>
<b>Subject:</b> Computer Hardware & Maintenance	No. Of Days per week class allotted: <b>4 periods per week (Mon, Tue, Thur &amp; Friday-1 period Each)</b>	<b>From Date:01-10-2021 To 30-01-2022</b>
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY /PRACTICAL TOPICS TO BE COVERED</b>
1st	01-10-2021	<b>1.COMPUTER CENTER MANAGEMENT</b>
2nd	4-10-2021	1.1 Need of management in computer centre
	5-10-2021	1.2 Types of job carried out in computers in an organisation
	7-10-2021	1.3 Duties & responsibility of personally involved in computer centre
3rd	11-10-21 to 16-01-2021	Puja Holiday
4th	21-10-2021	1.4.Need of training of staffs in computer centre
	22-10-2021	1.5.Idea about various makes of computers
5th	25-10-2021	<b>2.SITE PREPARATION &amp; INSTALLATION</b>
	26-10-2021	2.1.Lays outs of computer centre
	27-10-2021	2.2.False roofing, Air conditioning, Dust proofing
	29-10-2021	2.3. Power conditioning equipment like CVT, UPS, Isolation circuits with principle of function
6th	01-11-2021	<b>3.MOTHER BOARD &amp; COMPONENTS</b>
	02-11-2021	3.1.Components & slots(Processor socket/slot, memory sockets, chip sets, cache, BIOS, Clock Generator, RTC,IO Controller, Power connector, Keyboard, Mouse connector, Jumpers, Pin connectors, etc.)
	03-11-2021	3.2. Mother board Architecture and Block Diagram.
	05-11-2021	3.3. Processors(core2 Duo processor, Quad core processor, core i3 ,i5,i7 series, AMD A10 series, Xeon Processor)
7th	08-11-2021	3.4. Chip sets
	09-11-2021	3.5. Bus standards :PCI, AGP,USB etc.
	10-11-2021	3.6. Colour codes for devices/ports
	12-11-2021	<b>4.Memory &amp; I/O devices</b>
8th	15-11-2021	4.1.Primary memory & secondary memory
	16-11-2021	4.2.memory speed, Access time
	17-11-2021	4.3.Hard disk, Construction, working principles

9th	22-11-2021	4.4. File System, Formatting, Partitioning
	23-11-2021	4.5. Removable Storage and Special devices and their working principles (CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
	24-11-2021	4.6. Key Board (Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)
	26-11-2021	4.7. Mouse Interfacing
10th	29-11-2021	4.8. Printers (Types, operation and Trouble shooting)
	30-11-2021	4.9. Scanners (Types, operation and Trouble shooting)
	01-12-2021	<b>5. DISPLAY , POWER SUPPLY AND BIOS</b> 5.1 Displays and Graphics Cards
	03-12-2021	5.2 LCD, PLASMA, TFT, LED Displays
11th	06-12-2021	5.3 SMPS (Basic Principles and operations, O/P voltage)
	07-12-2021	5.4 BIOS (Functions, setups, types of BIOS)
	08-12-2021	5.5 POST (Operation, Faults related to Hardware)
	10-12-2021	<b>6. MAINTENANCE AND TROUBLE SHOOTING</b>
12th	15-12-2021	6.1 Assembly of Components of Desktop Computers
	17-12-2021	6.1 Assembly of Components of Desktop Computers
13th	20-12-2021	6.2 Configuring Laptops and Power settings
	21-12-2021	6.3 Laptop Components (Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
	22-12-2021	6.4 Formatting , Partitioning and installation of OS
	24-12-2021	6.4 Formatting , Partitioning and installation of OS
14th	27-12-2021	6.5 Trouble shooting of Commonly faced problems in Desktops and Laptops
	28-12-2021	6.5 Trouble shooting of Commonly faced problems in Desktops and Laptops
	29-12-2021	6.6 Basic Maintenance concepts (Preventive, Corrective, online)
	31-12-2021	6.7 Diagnostic programs and tools

15th	03-01-2022	6.8 Methods of Trouble shooting(symptom observation, analysis, diagnosis, Correction)
	04-01-2022	6.8 Methods of Trouble shooting(symptom observation, analysis, diagnosis, Correction)
	05-01-2022	6.9 Up gradation of system and application software
	06-01-2022	6.9 Up gradation of system and application software
	07-01-2022	6.10 Virus concepts, Antivirus
16th	10-01-2022	6.10 Virus concepts, Antivirus
	11-01-2022	<b>7. NETWORKING DEVICES AND THEIR INTERFACES</b>
	12-01-2022	7.1 Network Interface card
	13-01-2022	7.1 Network Interface card
	15-01-2022	7.2 Networking interconnecting devices such as hub, switch, Router
17th	17-01-2022	7.2 Networking interconnecting devices such as hub, switch, Router
	18-01-2022	7.2 Networking interconnecting devices such as hub, switch, Router
	19-01-2022	7.3 Types of Network cable
	21-01-2022	7.3 Types of Network cable
18th	24-01-2022	7.3 Types of Network cable
	25-01-2022	7.3 Types of Network cable
	27-01-2022	7.4 Types of Network connector
	28-01-2022	7.4 Types of Network connector
19th	31-01-2022	7.4 Types of Network connector