

# LESSON PLAN

**SUB:** COMPUTER HARDWARE & MAINTENANCE

**SEM:** 5<sup>th</sup>

**SESSION TIME:** 1/09/2020 TO 19/03/2021

**FACULTY NAME:** Ajay Kumar Panda

**BRANCH:** CSE

WEEK NO.	DATES	TOPICS TO BE COVERED	PERIOD TAKEN	TOPICS COVERED	LAGGING	REASON	MAKE UP
1.	1/9/20 To 8/9/20	1.1. Need of Management in Computer Centre	1	All	No	-	-
		1.2. Types of Jobs carried out in computers in an organization					
		1.3. Duties and responsibilities of personnel involved	1	All	No	-	-
		1.4. Need of Training of Staff	1	No	Training Staff	Lengthy Topic	Next Class
		1.5. Idea about Various makes of Computers. 2.1. Layouts of computer centre	1	All	No	-	-
2.	9/9/20 to 15/9/20	2.2. False Roofing, Air Conditioning, Dust Proofing	1	All	No	-	-
		2.3. Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning 3.1. Components and slots (Processor socket/slot, memory sockets, Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller, power Connector, Key Board/Mouse Connectors, Jumpers, Pin Connectors etc	1	All	No	-	-
		3.2. Mother architecture and Block Diagram	1	No	Motherboard Architecture and block diagram	Lengthy Topic	Next Class

3.	18/9/20 to 22/9/20	3.3. Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)	1	No	Processors	Lengthy Topic	Next Class
		3.4. Chip Sets.	1	All	No	-	-
		3.5. Bus Standards: PCI, AGP, USB etc.	1	All	No	-	-
		3.6. Colour Codes for Devices/ports	1	All	No	-	-

4.	24/10/20 to 30/10/20	PUJA HOILDAY	-	-	-	-	-
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5.	6/11/20 to 12/11/20	4.1 Primary and secondary Memory	1	All	No	-	-
		4.2 Memory speed, Access time	1	All	No	-	-
		4.3 Hard Disk, Construction, Working Principles)	1	No	Hard Disk	Lengthy Topic	Next Class
		4.4 File System, Formatting, Partitioning	1	All	No	-	-
		4.5 Removable Storage and Special devices and their working principles (CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive))	1	All	No	-	-
		4.6 Key Board (Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)	1	All	No	-	-
		4.7 Mouse Interfacing	1	All	No	-	-
		4.8 Printers (Types, operation and Trouble shooting)	1	No	Printers and Scanner	Lengthy Topic	Next Class
		4.9 Scanners (Types, operation and Trouble Shooting)					

6.	16/11/20 to 23/11/20	5.1 Displays and Graphics Card	1	No	No	-	-
		5.2 LCD, PLASMA, TFT, LED Displays	1	No	No	-	-
		5.3 SMPS (Basic Principles and operations, O/P voltage)	1	All	No	-	-
		5.4 BIOS (Functions, setups, types of BIOS)	1	All	No	-	-
		5.5 POST (Operation, Faults related to Hardware)	1	All	No	-	-
		6.1 Assembly of Components of Desktop Computers	1	All	No	-	-
		6.2 Configuring Laptops and Power settings	1	All	No	-	-
		6.3 Laptop Components (Adapter, Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)					
		6.4 Formatting, Partitioning and installation of OS	1	All	No	-	-
		6.5 Trouble shooting of Common ly faced problems in Desktops and Laptops					

7.	24/11/20 to 1/12/20	6.6 Basic Maintenance concepts (Preventive, Corrective, online)	1	No	Basic Manintenance	Holiday	Next Class
		6.7 Diagnostic programs and tools 6.8 Methods of Trouble shooting (symptom observation, analysis, diagnosis, Correction)	1	No	Diagnostic	Holiday	Next Class
		6.9 Up gradation of system and application software 6.10 Virus concepts, Antivirus	1	All	No	-	-
		7.1 Network Interface card	1	All	No	-	-
8.	2/12/20 to 9/12/21	7.2 Networking interconnecting devices such as hub, switch, Router	1	All	No	-	-
		7.3 Types of Network cable	1	All	No	-	-
		7.4 Types of Network connector	1	All	No	-	-
9.	10/12/21 To 17/12/21	Revision Class	1	All	No	-	-
10.	18/12/21 To 24/12/21	Revision classes	1	No	No	-	-
11.	25/12/21 To 1/1/21	Revision classes	1	No	No	-	-

13.	4/1/21 To 11/1/21	Revision	1	No	No	-	-
14.	12/1/21 To 19/1/21	Class Test	1	No	No	-	-
15.	20/1/21 To 27/1/21	Class Test	1	No	No	-	-
16.	28/1/21 To 31/1/21	Pervious year Question Dissucion	1	No	No	-	-

17.	1/2/21 To 6/2/21	Internal Exam	-	-	-	-	-
18.	7/2/21 To 14/2/21	Class Test	1	No	No	-	-
19.	15/2/21 To 22/2/21	Revision	1	No	No	-	-
20.	23/2/21 To 30/2/21	Pervious year Question Dissucion	1	No	No	-	-
21.	1/3/21 To 8/3/21	Revision	-	-	-	-	-
22.	9/3/21 To 16/3/21	Class Test	1	No	No	-	-
23.	17/3/21 To 19/3/21	Class Test	1	No	No	-	-