]	PNS School of	Engg. & Tech, Marshaghai, Kendrapara	
			LESSON PLAN	
			<u>Session (2024-2025)</u>	
Discipline:		Semester:	Name of the faculty: Jayashree Bishoi	
Computer Science		5th		
Subject:		Na af	Start Date: 01/07/2024	
COMPUTER HARDWARE &		No. of Days/week:		
MAINTENANCE		05	End Date: 08/11/2024	
Week	Class Day	Theory Topics		
	1st	1.COMPUTER CENTRE MANAGEMENT (Introduction)		
	2nd	Need of Management in Computer Centre		
1st	3rd	Types of Jobs carried out in computers in an organization		
	4th	Duties and responsibilities of personnel involved		
	5th	Need of Training of Staff		
	1st	Idea about Various makes of Computers		
	2nd	Various makes of Computers Continuded		
2nd	3rd	Question Answer Discussion		
	4th	2.SITE PREPARATION & INSTALLATION (Introduction)		
	5th	Layouts of computer centre		
	1st	False Roofing, Air Conditioning, Dust Proofing		
	2nd	Power Conditioning equipments like CVT		
3rd	3rd	Power Conditioning equipments like UPS		
	4th	Types of UPS and its functionality		
	5th	Isolation Circuits with Principles of functioning		
4th	1st	Exam related Question Answer Discussion		
	2nd	3.MOTHER BOARD and COMPONENTS (Introduction)		
	3rd	Components and slots (Processor socket/slot, memory sockets)		
	4th	Discussion about Chip sets, Cache, BIOS		
	5th	Discussion about Clock Generator, RTC, I/O Controller		
5th	lst	Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)		
	2nd	Mother Board architecture and Block Diagram		
	3rd	Processors (Core2 Duo Processor, Quad Core Processor)		
	4th	Core i3,i5,i7 series, AMD A10 series, Xeon Processor		
	5th	Chip Sets		
	1 st	Bus Standard	s: PCI, AGP, USB etc.	

6th	2nd	Colour Codes for Devices/ports		
	3rd	Doubt clearing class		
	4th	4.MEMORY AND I/O DEVICES (Introduction)		
	5th	Primary and secondary Memory		
	1st	Memory speed, Access time		
7th	2nd	Hard Disk, Construction, Working Principles		
	3rd	File System, Formatting, Partitioning		
	4th	Removable Storage and Special devices and		
	5th	Working principles of Removable Storage and Special devices		
8th	1st	Working principle of(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)		
	2nd	Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)		
our	3rd	Printers(Types, operation and Trouble shooting)		
-	4th	Scanners(Types, operation and Trouble Shooting)		
	5th	5.DISPLAY, POWER SUPPLY AND BIOS (Introduction)		
	1st	Displays and Graphics Cards		
9th	2nd	LCD,PLASMA,TFT,LED Displays		
	3rd	SMPS (Basic Principles and operations, O/P voltage)		
	4th	BIOS(Functions, setups, types of BIOS)POST(Operation, Faults related to Hardware)		
	5th	6. MAINTENANCE AND TROUBLE SHOOTING (Introduction)		
	1st	Assembly of Components of Desktop Computers		
	2nd	Configuring Laptops and Power settings		
10th	3rd	Laptop Components(Adapter, Battery, Basic problems, RAM types)		
TOUI	4th	CPU types, Laptop Motherboard, block diagram, Laptop Keyboard		
	5th	Commonly faced problems in Desktops and Laptops		
11th	1 st	Basic Maintenance concepts(Preventive, Corrective, online), Diagnostic		
		programs and tools		
	2nd	Methods of Trouble shooting, symptom observation, analysis, diagnosis, C		
	3rd	Upgradation of system and application software		
	4th	Virus concepts, Antivirus		
	5th	7.NETWORKING DEVICES AND THEIR INTERFACES(Introducti		
	1st	Network Interface card		
10.1	2nd	Networking interconnecting devices such as hub, switch, Router		
12th	3rd	Types of Network cable		

4th	Types of Network connector
5th	Previous year Question Discussion

Jayashree Bishoi

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