

PNS SCHOOL OF ENGINEERING AND TECHNOLOGY, MARSHAGHAI
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING LESSON PLAN

BRANCH : COMPUTER SCIENCE AND ENGINEERING		SEMESTER : 5TH	NAME OF THE TEACHING FACULTY : ER : JAYASHREE BISHOI	
SUBJECT : COMPUTER HARDWARE & MAINTENANCE		NO. OF DAYS PER WEEK CLASS ALLOTTED : 05	SEMESTER FROM DATE : 01.08.2023 TO 30.11.2023	
CHAPTER	WEEK	CLASSES	TOPIC TO BE COVERED	
COMPUTER CENTRE MANAGEMENT	1ST	1st	Need of Management in Computer Centre	
		2nd	Types of Jobs carried out in computers in an organization	
		3rd	Duties and responsibilities of personnel involved	
		4th	Need of Training of Staff	
		5th	Idea about Various makes of Computers.	
SITE PREPARATION & INSTALLATION	2nd	1st	Layouts of computer centre	
		2nd	False Roofing, Air Conditioning, Dust Proofing	
		3rd	Power Conditioning equipments like CVT, UPS,	
		4th	Isolation Circuits with Principles of functioning	
		5th	Components and slots (Processor socket/slot, memory sockets,	
MOTHER BOARD and COMPONENTS	3rd	1st	Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller	
		2nd	Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)	
		3rd	Mother architecture and Block Diagram	
		4th	Processors (Core2 Duo Processor, Quad Core Processor)	
		5th	Core i3,i5,i7 series, AMD A10 series, Xeon Processor	
	4th	1st	Chip Sets	
		2nd	Bus Standards: PCI, AGP, USB etc.	
		3rd	Colour Codes for Devices/ports	
		4th	Doubt clearing class	
		5th	Primary and secondary Memory	
	MEMORY AND I/O DEVICES	5th	1st	Memory speed , Access time
			2nd	Hard Disk, Construction, Working Principles
			3rd	File System, Formatting, Partitioning
4th			Removable Storage and Special devices and	
5th			their working principles	
6th		1st	Working principle of(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)	
		2nd	Key Board(Interfacing, USB, Wireless	

	6th	3rd	Types of keys, Keyboard Matrix, Key Bouncing)	
		4th	Mouse Interfacing	
		5th	Printers(Types, operation and Trouble shooting)	
		7th	1st	Scanners(Types, operation and Trouble Shooting)
			2nd	Doubt clearing class
DISPLAY , POWER SUPPLY AND BIOS	7th	3rd	Displays and Graphics Cards	
		4th	LCD,PLASMA,TFT,LED Displays	
		5th	Class test	
		8th	1st	SMPS (Basic Principles and operations, O/P voltage)
	2nd		BIOS(Functions, setups, types of BIOS)	
3rd	POST(Operation, Faults related to Hardware)			
		4th	Assembly of Components of Desktop Computers	
		5th		
MAINTENANCE AND TROUBLE SHOOTING	9th	1st	Configuring Laptops and Power settings	
		2nd	Laptop Components	
		3rd	(Adapter , Battery, Basic problems, RAM types0	
		4th	CPU types, Laptop Motherboard, block diagram, Laptop Keyboard	
		5th	Formatting , Partitioning and installation of OS	
	10th	1st	Trouble shooting of Common ly faced problems in Desktops and Laptops	
		2nd		
		3rd	Basic Maintenance concepts(Preventive, Corrective, online)	
		4th	Diagnostic programs and tools	
		5th	Methods of Trouble shooting	
	11th	1st	symptom observation, analysis, diagnosis, Correction	
		2nd	Up gradation of system and application software	
		3rd	Virus concepts, Antivirus	
		4th	Doubt clearing class	
		5th	Network Interface card	
NETWORKING DEVICES AND THEIR INTERFACES	12th	1st	Networking interconnecting devices such as hub, switch, Router	
		2nd	Types of Network cable	
		3rd	Types of Network connector	
		4th	Previous year Question answer discussion	
		5th	Doubt clearing class	

Jayashree Bishei

SIGNATURE OF LECTURER

Biswaraj Swain

SIGNATURE OF HOD