

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 : PRIYABRATA SAHOO
SUBJECT : COMPUTER HARDWARE & MAINTENANCE	NO. OF DAYS PER WEEK CLASS ALLOTTED : 05	SEMESTER FROM DATE : 15.09.2022 TO 22.12.2022	
CHAPTER	MONTH	DATE	TOPIC TO BE COVERED
COMPUTER CENTRE MANAGEMENT	SEPTEMBER	15.09.2022	Need of Management in Computer Centre
		19.09.2022	Types of Jobs carried out in computers in an organization
		20.09.2022	Duties and responsibilities of personnel involved
		21.09.2022	Need of Training of Staff
		22.09.2022	Idea about Various makes of Computers.
SITE PREPARATION & INSTALLATION		24.09.2022	Layouts of computer centre
		26.09.2022	False Roofing, Air Conditioning, Dust Proofing
		27.09.2022	Power Conditioning equipments like CVT, UPS,
		28.09.2022	Isolation Circuits with Principles of functioning
MOTHER BOARD and COMPONENTS	29.09.2022	Components and slots (Processor socket/slot, memory sockets,	
	OCTOBER	10.10.2022	Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller
		11.10.2022	Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)
		13.10.2022	Mother architecture and Block Diagram
		15.10.2022	Processors (Core2 Duo Processor, Quad Core Processor)
		18.10.2022	Core i3,i5,i7 series, AMD A10 series, Xeon Processor
		19.10.2022	Chip Sets
		20.10.2022	Bus Standards: PCI, AGP, USB etc.
		22.10.2022	Colour Codes for Devices/ports
		26.10.2022	Doubt clearing class
MEMORY AND I/O DEVICES		27.10.2022	Primary and secondary Memory
	29.10.2022	Memory speed , Access time	
	31.10.2022	Hard Disk, Construction, Working Principles	
	NOVEMBER	1.11.2022	File System, Formatting, Partitioning
		02.11.2022	Removable Storage and Special devices and
		03.11.2022	their working principles
		05.11.2022	Working principle of(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
09.11.2022		Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)	
10.11.2022		Mouse Interfacing	
12.11.2022		Printers(Types, operation and Trouble shooting)	
14.11.2022	Scanners(Types, operation and Trouble Shooting)		
	15.11.2022	Doubt clearing class	
	17.11.2022	Displays and Graphics Cards	

DISPLAY , POWER SUPPLY AND BIOS	19.11.2022	LCD, PLASMA, TFT, LED Displays	
	21.11.2022	Class test	
	22.11.2022	SMPS (Basic Principles and operations, O/P voltage)	
	24.11.2022	BIOS(Functions, setups, types of BIOS)	
MAINTENANCE AND TROUBLE SHOOTING	26.11.2022	POST(Operation, Faults related to Hardware)	
	28.11.2022	Assembly of Components of Desktop Computers	
	29.11.2022	Configuring Laptops and Power settings	
	30.11.2022	Laptop Components	
	DECEMBER	01.12.2022	(Adapter , Battery, Basic problems, RAM types)
		03.12.2022	CPU types, Laptop Motherboard, block diagram, Laptop Keyboard
		05.12.2022	Formatting , Partitioning and installation of OS
		06.12.2022	Trouble shooting of Common ly faced problems in Desktops and Laptops
		07.12.2022	Basic Maintenance concepts(Preventive, Corrective, online)
		08.12.2022	Diagnostic programs and tools
10.12.2022		Methods of Trouble shooting	
12.12.2022		symptom observation, analysis, diagnosis, Correction	
13.12.2022		Up gradation of system and application software	
14.12.2022		Virus concepts, Antivirus	
NETWORKING DEVICES AND THEIR INTERFACES	15.12.2022	Doubt clearing class	
	17.12.2022	Network Interface card	
	19.12.2022	Networking interconnecting devices such as hub, switch, Router	
	20.12.2022	Types of Network cable	
	21.12.2022	Types of Network connector	
	22.12.2022	Previous year Question Discussion	

Priyabrata Sahoo

SIGNATURE OF LECTURER

Biswarayan Swain

SIGNATURE OF HOD