

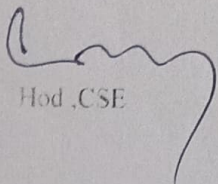
LESSON PLAN

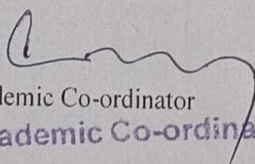
SUB: COMPUTER HARDWARE & MAINTENANCE
BRANCH:- COMPUTER SCIENCE& ENGG.
SEMESTER:5th
NAME OF FACULTY: ABHISHEK PADHI (GF in CSE)

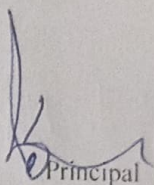


GOVERNMENT POLYTECHNIC, BHADRAK

SESSION: 2025-26


Hod ,CSE


Academic Co-ordinator
Academic Co-ordinator


Principal
Govt. Polytechnic, Bhadrak

DEPARTMENT OF Computer Science & Engg.,

Discipline: Computer Science & Engineering	Semester: 5 th Winter/2025	Name of the Teaching Faculty: Mr ABHISHEK PADHI, Lecturer Email ID: abhishekpadi24@gmail.com
Subject: Computer Hardware and Maintenance, Theory-04	No. Of Days/Week: 04	StartDate: 14.07.25 EndDate: 15.11.25

Week	Class Day	Theory Topics
1st	1st	Need of Management in Computer Centre
	2nd	Need of Management in Computer Centre
	3rd	Types of Jobs carried out in computers in an organization Duties and responsibilities of personnel involved
	4th	Types of Jobs carried out in computers in an organization Duties and responsibilities of personnel involved
2nd	1st	Need of Training of Staff Idea about Various makes of Computers.
	2nd	Need of Training of Staff Idea about Various makes of Computers.
	3rd	Types of Jobs carried out in computers in an organization Duties and responsibilities of personnel involved
	4th	Types of Jobs carried out in computers in an organization Duties and responsibilities of personnel involved
3rd	1st	Layouts of computer center
	2nd	Layouts of computer center
	3rd	False Roofing, Air Conditioning, Dust Proofing
	4th	False Roofing, Air Conditioning, Dust Proofing
4th	1st	Power Conditioning equipment like CVT, UPS, Isolation Circuits with Principles of functioning
	2nd	Power Conditioning equipment like CVT, UPS, Isolation Circuits with Principles of functioning
	3rd	Power Conditioning equipment like CVT, UPS, Isolation Circuits with Principles of functioning
	4th	Power Conditioning equipment like CVT, UPS, Isolation Circuits with Principles of functioning
5th	1st	Components and slots (Process or socket/slot, memory sockets, Chip sets, Cache Memory)

6th	2nd	Components and slots(Process or socket/slot, memory sockets, Chip sets, Cache Memory)
	3rd	Mother architecture and Block Diagram
	4th	Mother architecture and Block Diagram
	1st	Processors (Core2 Duo Processor, Quad Core Processor, Corei3, i5, i7 series, AMD A10 series, Xeon Processor), Chip Sets
6th	2nd	Processors (Core2 Duo Processor, Quad Core Processor, Corei3, i5, i7 series, AMD A10 series, Xeon Processor), Chip Sets
	3rd	Chip sets
	4th	Chip sets
	1st	Color Codes for Devices/ports
7th	2nd	Color Codes for Devices/ports
	3rd	Processors (Core2 Duo Processor, Quad Core Processor, Corei3, i5, i7 series, AMD A10 series, Xeon Processor), Chip Sets
	4th	Bus Standards: PCI, AGP, USB etc, Color Codes for Devices/ports
	1st	Primary and secondary Memory
8th	2nd	Primary and secondary Memory
	3rd	Memory speed, Access time
	4th	Memory speed, Access time
	1st	Hard Disk ,Construction, Working Principles
9th		Hard Disk ,Construction, Working Principles
	2nd	File System, Formatting, Partitioning
		File System, Formatting, Partitioning
	3rd	Removable Storage and Special devices and their working principles(CD ,DVD ,External drives, Memory stick ,USB Flash drive ,Solid state drive)
9th	4th	Removable Storage and Special devices and their working principles(CD ,DVD ,External drives, Memory stick ,USB Flash drive ,Solid state drive)
	1st	Key Board(interfacing, USB), Mouse interfacing, Printers(Types, operation and Trouble shooting), Scanners(Types, operation and Trouble Shooting)
	2nd	Key Board(interfacing, USB), Mouse interfacing, Printers(Types, operation and Trouble shooting), Scanners(Types, operation and Trouble Shooting)
	3rd	Displays and Graphics Cards
10th	4th	Displays and Graphics Cards

11th	1st	LCD ,PLASMA ,TFT ,LED Displays
	2nd	LCD ,PLASMA ,TFT ,LED Displays
	3rd	SMPS(Basic Principle sand operations ,O/P voltage)
	4th	SMPS(Basic Principle sand operations ,O/P voltage)
12th	1st	POST(Operation, Faults related to Hardware)
	2nd	POST(Operation, Faults related to Hardware)
	3rd	Assembly of Components of Desktop Computers, Configuring Laptops and Power settings
	4th	Assembly of Components of Desktop Computers, Configuring Laptops and Power settings
13th	1st	Laptop Components(Adapter ,Battery ,Basic problems, RAM types, CPU types, Laptop Mother board ,block diagram, Laptop Keyboard)
	2nd	Laptop Components(Adapter ,Battery ,Basic problems, RAM types, CPU types, Laptop Mother board ,block diagram, Laptop Keyboard)
	3rd	Formatting, Partitioning and installation of OS, Trouble shooting of Commonly faced problems in Desktops And Laptops
	4th	Basic Maintenance concepts (Preventive, Corrective, online) Diagnostic program sand tools
14th	1st	Basic Maintenance concepts (Preventive, Corrective, online) Diagnostic program sand tools
	2nd	Methods of Troubleshooting(symptom observation, analysis, diagnosis, Correction), Virus concepts, Antivirus
	3rd	Methods of Troubleshooting(symptom observation, analysis, diagnosis, Correction), Virus concepts, Antivirus
	4th	Up gradation of system and application software
15th	1st	Up gradation of system and application software
	2nd	Network interface card, Networking interconnecting devices such as hub, switch, Router
	3rd	Types of network cable, Types of network connector
	4th	Quiz Test, Revision, Assessment, Previous year question

Abhishek Padhi
Signature of faculty