

LESSON PLAN

Department: CSE		Semester: 3rd , Name of Faculty : ALOK KUMAR MISHRA
Subject: Computer System Architecture (CSA)	No. of days/ week Class allotted: 4	Effective From Date: 01.07.2024
		No. of Week- 15
		Topic to be Covered:
Week	Class Day	Theory
1st	1st	UNIT 1: BASIC STRUCTURE OF COMPUTER HARDWARE
	2nd	1.1 Basic Structure of computer hardware
	3rd	1.2 Functional Units
	4th	1.3 Computer components
2nd	1st	1.4 Performance measures
	2nd	1.5 Memory addressing & Operations
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	4th	UNIT 2: INSTRUCTIONS & INSTRUCTION SEQUENCING
3rd	1st	2.1 Fundamentals to instructions
	2nd	2.2 Operands
	3rd	2.3 OP Codes
	4th	2.4 Instruction formats
4th	1st	2.5 Addressing Modes
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	UNIT 3: PROCESSOR SYSTEM
	4th	3.1 Register Files
5th	1st	3.2 Complete instruction execution <ul style="list-style-type: none">• Fetch• Decode• Execution
	2nd	3.3 Hardware control
	3rd	3.4 Micro program control
	4th	1. Doubt Clearing class 2. Quiz test 3. Assignment
6th	1st	UNIT 4: MEMORY SYSTEM
	2nd	4.1 Memory characteristics
	3rd	4.2 Memory hierarchy
	4th	4.3 RAM and ROM organization
7th	1st	4.4 Interleaved Memory
	2nd	4.5 Cache memory
	3rd	4.6 Virtual memory
	4th	1. Doubt Clearing class 2. Quiz test 3. Assignment

8 th	1st	UNIT 5: INPUT – OUTPUT SYSTEM
	2nd	5.1 Input - Output Interface
	3rd	5.2 Modes of Data transfer
	4th	5.3 Programmed I/O Transfer
9 th	1st	5.4 Interrupt driven I/O
	2nd	5.5 DMA
	3rd	5.6 I/O Processor
	4th	1. Doubt Clearing class 2. Quiz test 3. Assignment
10 th	1st	UNIT 6: I/O INTERFACE & BUS ARCHITECTURE
	2nd	6.1 Bus and System Bus
	3rd	6.2 Types of System Bus <ul style="list-style-type: none"> • Data • Address • Control
	4th	BUS
11 th	1st	6.3 Bus Structure
	2nd	6.4 Basic Parameters of Bus design
	3rd	6.5 SCSI
	4th	6.6 USB
12 th	1st	1. Doubt Clearing class 2. Quiz test 3. Assignment
	2nd	UNIT 7: PARALLEL PROCESSING
	3rd	7.1 Parallel Processing
	4th	7.2 Linear Pipeline
13 th	1st	7.3 Multiprocessor
	2nd	7.4 Flynn's Classification
	3rd	• Flynn's Classification Types
	4th	• SISD
14 th	1st	• SIMD
	2nd	• MISD
	3rd	• MIMD
	4th	1. Doubt Clearing class 2. Quiz test 3. Assignment
15 th	1st	Revision
	2nd	Revision
	3rd	Previous Year Question Discussions
	4th	Previous Year Question Discussions

Signature of Faculty

HOD
Senior Lecture, CSE
Govt. Polytechnic,
Kandhamal