Academic Lesson Plan of Winter 2024

Department: CSE	Semester:3rd	Name of the Teaching Faculty: Girija Prasad Swain
Subject: **Computer System Architecture**	No. of days/per week class allotted 4p/week	Semester from:01/07/2024
		No. of weeks:15
		Topics to be covered:
WEEK	**DAY**	**TOPIC**
1st week	1st	Basic structure of computer hardware
	2nd	Basic structure of computer hardware
	3rd	Functional units
	4th	Computer components
2nd week	1st	perfermance measure
	2nd	Memory adressing & operations
	3rd	Instruction & Instruction sequencing
	4th	Fundamental to instructions
3rd week	1st	Operands
	2nd	Opcodes
	3rd	Instruction formats
	4th	Adressing modes
4th week	1st	Adressing modes, Types
	2nd	processor system
	3rd	Register files
	4th	Complete instruction excecution fetch, decode,execution
5th week	1st	Fetch, decode, execution
	2nd	Hardware control
	3rd	Micro program control
	4th	Memory system
6th week	1st	Memory characteristics
	2nd	Memory hierarchy
	3rd	RAM & ROM organizations
	4th	Inter leaved memory
7th week	1st	Catche memory
	2nd	Virtual Memory
	3rd	I/P,O/P system
	4th	I/P,O/P system
8th week	1st	Modes of data transfer
	2nd	Programmed I/O transfer
	3rd	Interrupt driven I/O
	4th	Interrupt driven I/O
9th WEEK	1st	DMA
	2nd	I/O processor
	3rd	I/O interface
	4th	Bus architecture
10th week	1st	Bus architecture
	2nd	System bus and its types
	3rd	types of system bus,data
	4th	data, adress ,control
11th week	1st	Bus architecture
	2nd	Bus architecture
	3rd	Basic parameters of bus design
	4th	Basic parameters of bus design

12th week	1st	SCSI
	2nd	USB
	3rd	Parallel processing
	4th	Parallel processing
13th week	1st	Linear Pipeline
	2nd	Linear Pipeline
	3rd	multi processor
	4th	multi processor
14th week	1st	flynn's classification
	2nd	flynn's classification, types
	3rd	single instruction stream,single data stream(SISD)
	4th	single instruction stream, multiple data stream(SIMD)
15th week	1st	Multiple instruction stream,single data stream(MISD)
	2nd	Multiple instruction stream,and multiple data(MIMD)
	3rd	Doubt clearing class
	4th	Previous year question discussions

30/6/24

Signature of Faculty

30/6/24

HOD

Sr. Lecture, CSE