LESSON PLAN WINTER 2022

Deparment: Information Technology	Semester : 3rd	Name of the Teaching faculty: Pranati Pattnaik	
Subject :- Computer System and Architecture	No.of Days/ week class allotted : 04/week	Semester from date: 15/09/2022 to 22/12/2022 Topics to be covered:-	No. of Weeks :15
Week	Class Day	Topics	Remarks
1 st Week: (15 th Sept- 17th Sept)	1st	Basic Structure of computer hardware	
	2nd	Functional Units	
2 nd Week: (19 th Sept - 24 th Sept)	1st	Computer components	
	2nd	Performance measures	
	3rd	Memory addressing & Operations	
	4th	Instructions & instruction Sequencing Fundamentals to instructions	
3 rd Week: (26 th Sept-1st Oct)	1st	Operands, Op Codes	
	2nd	Instruction Formats	
	3rd	Addressing Modes	
	4th	Register Files	
4th week	vacation	**Puja Vacation**	
5 th Week: (10 th Oct- 15 th Oct)	1st	Decode, Execution,Complete instruction execution ⍰ Fetch	
	2nd	Hardware control,Micro program control,Micro program control	
	3rd	REVISION	
	4th	Memory System	
6 th Week: (17 th Oct- 22 nd Oct)	1st	Memory characteristics	
	2nd	Memory hierarchy	
	3rd	**REVISION**	
	4th	RAM and ROM organization	
7 th Week: (25 th Oct- 31 st Oct)	1st	Interleaved Memory	
	2nd	Cache memory	
	3rd	Virtual memory	
	4th	**REVISION**	
8 th Week: (1st Nov- 5th Nov)	1st	Input - Output Interface	
	2nd	Modes of Data transfer	
	3rd	Programmed I/O Transfer	
	4th	Interrupt driven I/O	
9 th Week: (7 th Nov -12 th Nov)	1st	DMA	
	2nd	**REVISION**	
	3rd	I/O Processor	
	4th	Bus and System Bus	
10 th Week: (14 th Nov -19 th Nov)	1st	Data, Address, Control	
	2nd	Bus Structure	
	3rd	Basic Parameters of Bus design	
	4th	SCSI	
11 th Week: (21st Nov - 26 th Nov)	1st	USB	
	2nd	Parallel Processing	
	3rd	REVISION	
	4th	Linear Pipeline	
12 th Week: (28 th Nov -3 rd) Dec	1st	Linear Pipeline	
	2nd	Multiprocessor	
	3rd	**REVISION/TEST**	
13 th Week: (5 th Dec -10 th Dec)	1st	Flynn's Classification	
	2nd	Single Instruction Single Data Stream	
	3rd	Single Instruction Single Data Stream	
14 th Week: (12 th Dec- 17th Dec)	1st	Single Instruction Multiple Data Stream	
	2nd	Single Instruction Multiple Data Stream	
	3rd	Multiple Instruction Multiple Data Stream	
	4th	**REVISION/TEST**	
15 th Week: (19 th Dec- 22nd Dec)	1st	Multiple Instruction Single Data Stream	
	2nd	Multiple Instruction Single Data Stream	
	3rd	Multiple Instruction Multiple Data Stream	
	4th	**REVISION/TEST**	

15/9/22

Signature of faculty