ACADEMIC LESSON PLAN 2023 (WINTER)
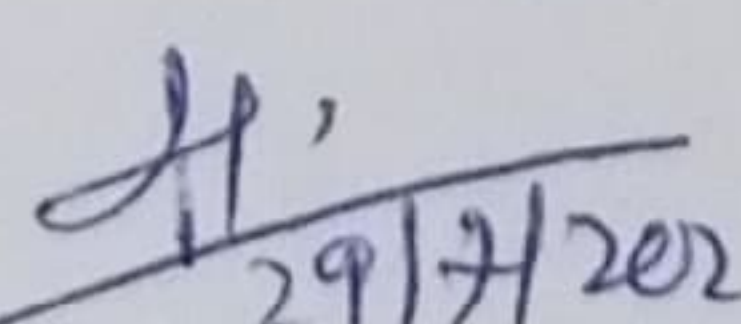
Discipline: Information Technology	Semester : 3rd	Name of the Teaching faculty: Pranati Pattnaik
Subject : Computer System Architecture	No.of Days/per week class allotted : 04	Semester from date : 01/08/2023 to 30/11/2023 No. of weeks : 17

Week	Class Day	Theory / Practical Topics
1st Week (1st Aug-5th Aug)	1st	Basic Structure of computer hardware
	2nd	Computer components
	3rd	Performance measures
	4th	Memory addressing & Operations
2nd Week (6th Aug-12th Aug)	1st	Memory addressing & Operations
	2nd	**REVISION**
	3rd	Instructions & instruction Sequencing Fundamentals to instructions
	4th	Instructions & instruction Sequencing Fundamentals to instructions
3rd Week (14th Aug-19th Aug)	1st	Instructions & instruction Sequencing Fundamentals to instructions
	2nd	Decode
	3rd	Execution
	4th	Complete instruction execution · Fetch
4th Week (21st Aug-26th Aug)	1st	Complete instruction execution · Fetch
	2nd	Hardware control
	3rd	Micro program control,
	4th	Micro program control
5th Week (28th Aug-2nd Sept)	1st	REVISION
	2nd	**Memory characteristics**
	3rd	REVISION
	4th	RAM and ROM organization
6th Week (4th Sept -9th Sept)	1st	Interleaved Memory
	2nd	Cache memory
	3rd	**Virtual memory**
	4th	REVISION
7th Week 11th Sept -16th Sept	1st	Input - Output Interface
	2nd	Input - Output Interface
	3rd	Modes of Data transfer
	4th	Programmed I/O Transfer
8th Week 18th	1st	Interrupt driven I/O

Sept -23rd Sept	2nd	REVISION
	3rd	**DMA**
	4th	I/O Processor
9th Week 25th Sept -30th Sept	1st	I/O Processor
	2nd	Bus and System Bus
	3rd	Data Bus, Address Bus
	4th	REVISION/TEST
10th Week 2nd Oct -7th Oct	1st	Control Bus
	2nd	Bus Structure
	3rd	Basic Parameters of Bus design
	4th	Basic Parameters of Bus design
11th Week 9th Oct -14th Oct	1st	SCSI
	2nd	USB
	3rd	**REVISION/TEST**
	4th	Parallel Processing
12th Week 16th Oct-20th Oct	1st	**Linear Pipeline**
	2nd	Multiprocessor
	3rd	REVISION/TEST
	4th	Flynn's Classification
13th Week 30th Oct -4th Nov	1st	Single Instruction Single Data Stream
	2nd	Single Instruction Single Data Stream
	3rd	REVISION/TEST
	4th	**Single Instruction Multiple Data Stream**
14th Week 6th Nov-11th Nov	1st	Single Instruction Multiple Data Stream
	2nd	Single Instruction Multiple Data Stream
	3rd	Multiple Instruction Multiple Data Stream
	4th	**REVISION/TEST**
15th Week 13th Nov-18th Nov	1st	Multiple Instruction Single Data Stream
	2nd	Multiple Instruction Single Data Stream
	3rd	Multiple Instruction Multiple Data Stream
	4th	REVISION
16th Week 20th Nov-25th Nov	1st	REVISION
	2nd	REVISION/TEST
	3rd	REVISION/TEST
	4th	REVISION/TEST
17th Week 27th Nov-30th Nov	1st	REVISION/TEST
	2nd	REVISION/TEST

29/7/2023

Signature of the Faculty