

Lesson Plan

Name of Faculty : Ms. Varsha, AP (CSE)
Discipline : Computer Science and Engineering
Semester : 3rd (odd), (CSE 210L)
Subject : Computer architecture and organization
Duration : 15 weeks (from Aug to Dec -2023)

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1 st	1.	Basic Boolean algebra and logic gates			
	2.	Combinational logic blocks			
	3.	Adder subtractor and multiplexers			
2 nd	4	Sequential logic blocks			
	5	Flip flops, register, counter			
	6	Flynn's classification			
3 rd	7	Multilevel viewpoint of a machine			
	8	Digital logic			
	9	Micro architectures			
4 th	10	Operating systems			
	11	Performance matrix			
	12	Cpu architecture types			
5 th	13	Computer registers, stack memory			
	14	Detailed data path of a typical cpu			
	15	Computer organization concept			
6 th	16	Stored program concept			
	17	Instruction codes , Instruction cycles			
	18	Timing and control, Types of instructions			
7 th		1st Minor Test			
8 th	19	Memory reference ,register reference			
	20	I/o reference instructions			
	21	Accumulator logic			
9 th	22	Control memory			
	23	Introduction to parallelism			
	24	Goals of parallelism and Amdahl's law			
10 th	25	Instruction level parallelism			
	26	Processor level parallelism			
	27	Pipelining and its features			
11 th	28	Super scaling overview			
	29	Multiprocessor systems overview			
	30	Memory hierarchy			
12 th	31	I/O techniques			
	32	Need of memory and examples			
	33	Cache memory and main memory			
13 th	34	Stack organization, Instruction formats			
	35	Addressing modes, Types of various modes			
	36	Address sequencing, Instruction set architectures			
14 th		2nd Minor Test			
15 th	37	Micro instructions, Classification of processors			
	38	Micro program sequencer, Ram and Rom organization			
	39	Implementation of control unit, DMA modes of transfer			