Discipline : Computer Science and Engineering
Subject : Computer architecture and organization

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

13th	34	Stack organization, Instruction formats			
	35	Addressing modes, Types of various modes			
	36	Address sequencing, Instruction set architectures			
14th		**2nd Minor Test**			
15th	37	Micro instructions, Classification of processors			
	38	Micro program sequencer, Ram and Rom organization			
	39	Implementation of control unit, DMA modes of transfer			