

LESSON PLAN

Name of Faculty	Miss Neha Midha	
Discipline	Computer Engineering	
Semester	4th	
Subject	Computer Organization	
Duration	16 WEEKS(March 2021 -July 2021)	
Work Load	Lecture	3 Lecture per week (1 hour /day)
Week	Theory	
	Day	Topic
1st	1st	A brief over view of the subject “Computer organization “ and relevance of the studying the subject in Diploma level Program.
	2nd	CPU Organization : Concept of Registers and General Register Organization
	3rd	Concept of Stack Organization
2nd	4th	Concept of Instruction Format and types of instructions, Three, Two, One , Zero Address instruction
	5th	Addressing modes: Immediate, register, direct, in direct,
	6th	Addressing modes: relative, indexed.
3rd	7th	Concept of CPU Design
	8th	Concept of Micro programmed controlled
	9th	Concept of Hard wired controlled
4th	10th	Class Test of CPU Design
	11th	Concept of Reduced instruction Set Computer
	12th	Concept of Complex instruction Set Computer
5th	13th	CISC Characteristics, RICS Characteristics
	14th	Comparison of RISC & CISC
	15th	Seminar on Topics , Instruction formats and Addressing modes , CICS, RICS
6th	16th	Concept of Memory Organization, Memory types
	17th	Memory Hierarchy
	18th	ROM and RAM Chips,Concept of Memory Address Map
7th	19th	Connections of Memory Chips with the CPU
	20th	Concept and usage of Auxiliary Memories and types
	21st	Study of Magnetic Disks
8th	22nd	Study of Magnetic Tapes.
	23rd	Associative and Cache memory
	24th	Concept of Virtual Memory
9th	25th	Concept of Memory Management
	26th	Memory Management Hardware.
	27th	Revision of Associative, Cache , Virtual memory

10th	28th	Read and Write operation of memory
	29th	Concept of Input/output Organization
	30th	Basic Input out put System BIOS and its Function
11th	31st	Testing and Initialization by BIOS, Configuring the System
	32nd	Concept of Data transfer in Computer System
	33rd	Different modes of Data Transfer : Programmed and DMA
12th	34th	Programmed I/O : Synchronous, asynchronous
	35th	Interrupt initiated I/O
	36th	DMA data transfer
13th	37th	Class Test od I/O Organisation
	38th	Concept of Multi Processor Systems
	39th	Different forms of Parallel Processing
14th	40th	Different forms of Parallel Processing ...continued
	41st	Concept of Parallel processing and Pipe Lines
	42nd	Basic Characteristics of Multiprocessor, General purpose multiprocessors.
15th	43rd	Concept of Interconnection Networks
	44th	, Concept of Time Shared Common Bus
	45th	Concept of Multiport Memory, Cross Bar Switch
16th	46th	Multistage Switching networks and hyper cube structures
	47th	Revision of Previous lectures
	48th	Class Test of unit 4