SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: BCA IST YEAR **Semester: Even**

Subject: LOGICAL ORGANISATION OF COMPUTER-II **Session: 2021-22**

Lecture Number	TOPIC
	UNIT 1: SEQUENTIAL LOGIC
L 1-20	**Sequential Logic basic introduction**
	Difference between Sequential and Combinational Logic
	Characteristics of sequential logic
	Flip-Flops basic introduction
	Characteristics of flip-flops
	Clocked RS flip flop and excitation table
	Continued...
	D type
	Continue.
	JK flip flop
	Continue.
	T type flip flop
	Doubts taken on latch working of SR flip flop
	MasterSlave flip-flops
	Difference between D and T type Flip Flop

	Continue..
	Flash Memory
	Doubt class
	Continue...
	I/O Devices and their controllers.
	Presentation on i/o Devices
	Continue.
	State Table of SR flip flop
	Continue.....
	Continue.....
	state diagram
	state equations.
	Continue.
	Flip-flop excitation tables
	UNIT 2: SEQUENTIAL CIRCUITS
L 21-40	**Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO)**
	Continue.....
	Continue.....
	Test on SR and JK FLIP - FLOP
	Discussed Doubts on JK and SR

	shift registers.
	Designing counters – Asynchronous and Synchronous Binary Counters
	Continue.
	Modulo-N Counters
	Continue.
	Up-Down Counters
	Continue...
	CLASS TEST
	UNIT 3: MEMORY DEVICES
L 40-60	**Memory Parameters**
	Semiconductor RAM
	Continue....
	ROM and types of ROM
	Magnetic and Optical Storage devices
	Continue...
	UNIT 4: INSTRUCTION DESIGN
L 60-80	**I/O Organization**
	Machine instruction
	Instruction set selection
	Instruction cycle
	Instruction Format

	Addressing Modes
	I/O Interface
	Interrupt structure
	CONTINUE...
	Program-controlled Interrupt-controlled & DMA transfer
	CONTINUE...
	DOUBT CLASS
	ORAL TEST ON ADDRESSING MODE
	I/O Channels
	IOP.