Lesson plan									
Name of Faculty Sh. Revti Raman									
Discipline			Electrical Engineering						
Semest	er		4 th						
Subject	ļ		Digital Electronics						
Lesson	Plan Dura	ation	15 Week (From March 2023to June2023) Theory - 04, Practical - 02						
Week Theory			Practical						
	Lectur Top		ic (Including Assignment/ Test)	Practical	Торіс				
	e day			day					
131	Day1	1: Nur	nber Systems	Day 1	Verification and interpretation of truth table for AND, OR,				
	Day2	Decim	al, binary						
	Day3	octal a	nd hexa-decimal number systems						
	Day4	and the	eir inter-conversion						
2"	Day1	Numer	ical based on inter-conversion	Day 1	NOT, NAND, NOR, X-OR gates				
	Day2 Bina		and Hexadecimal addition	1					
	Day3	subtrac	ction and multiplication	-					
	Day4	1's and	l methods of addition/subtraction						
314	Day1	2's cor	nplement	Day 1	Revision and checking				
	Day2	Numer	ricals/problems						
	Day3 Nume		ricals/problems						
	Day4	2:Gat	es ;Definition, symbol and truth						
An	Dorr1	tables	tor inverter, OR,	Day 1	Construction of Holf Addenusing				
-	Day1	AND,	INAIND	Day I	gates				
	Day2		lance circuit (Ex. NOP)	_	gates				
	Day3	Povisi	on/assignment	_					
5 th	Day4	Class t	est	Day 1	Construction of Full Adder using				
	Day1		3:Boolean Algebra : Boolean Relations		gates				
	Day2	and the	bir applications		garos				
	Day3	DeMo	rgan's Theorems	-					
	Day4	K-Map	o for two variables						
6 ^m	Day1	k-map	for 4 variable	Day 1	Revision and checking				
	Day2	Numer	ical based on k-map	-					
	Day3	Numer	ical based on k-map						
	Day4	4:Con	binational Circuits						
7 ^m	Day1	Half ad	der with explanation	Day 1	To verify the truth table for JK				
	Day2	Full ac	lder		flipflop				
	Day3	Encod	er						
	Day4	Decod	er						
8	Day1	Multiplexer/Demultiplexer		Day 1	Revision and checking				
	Day2	Displa	y Devices (LED, LCD						
	Day3	and 7-s	segment display)						
	Day4	Revisi	on/assignment						
9"	Day1	Class t	est	Day 1	Construction and testing of any				
	Day2	5:Flip	-Flops; J-K Flip-Flop		counter				
	Day3	R-S Flip-Flop							
	Day4 D-Type		e Flip-Flop						
10"	Day1	T-Type Flip-Flop		Day 1	Quiz and assessment				
	Day2	Applic	ations of Flip-Flops						
	Day3	Revision/assignment							
	Day4	Class t	est						

11"	Day1	6: Introduction of Shift Registers and Counters	Day 1	Verification of operation of a 8-bit D/A Converter
	Day2	With types		
	Day3	and Counters		
	Day4	With types		
12"	Day1	Revision/assignment		
	Day2	Class test	Day 1	Revision and checking
	Day3	7: A/D and D/A Converters		
	Day4	A/D converter (Counter ramp		
13	Day1	ay1 successive approximation method of A/D Conversion)		Revision and checking
	Day2	D/A converters (Binary weighted		
	Day3	R-2R D/A Converter)		
	Day4	Revision/assignment		
14 ^m	Day1	Class test	Day 1	Quiz and revision
	Day2	8: Semi-conductor Memories		
	Day3	With its Types		
	Day4	merits, demerits,		
15	Day1	and applications	Day 1	Revision and checking
	Day2	Revision/assignment		
	Day3	Class test		
	Day4	Revision/Review/Test of old HSBTE Papers		