



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Lesson Plan & Work-done Diary for AY: 2025-26, ODD Semester

Course with Code: Digital Logic Circuits / BEE306A			Faculty: Mrs. Swathi C A			Semester & Section: III	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1							
1		Principles of Combinational Logic: Definition of combinational logic	ICT				
2		Canonical forms	ICT				
3		Generation of switching equations from truth tables	ICT				
4		Karnaugh map rules & regulations	ICT				
5		Karnaugh maps-3,4,5 variables	Chalk & Talk				
6		Karnaugh maps-3,4,5 variables	Chalk & Talk				
7		Incompletely specified functions (Don 't care terms)	Chalk & Talk				
8		Simplifying Max term equation	Chalk & Talk				
9		Quine-McCluskey minimization technique	Chalk & Talk				
10		Quine-McCluskey using don 't care terms	Chalk & Talk				
11		Reduced prime implicants Tables	Chalk & Talk				



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MODULE-2							
12		Analysis and Design of Combinational logic: General approach to combinational logic design	Chalk & Talk				
13		Decoders and BCD decoders	Chalk & Talk				
14		Encoders	Chalk & Talk				
15		Digital multiplexers	Chalk & Talk				
16		Using multiplexers as Boolean function generators	Chalk & Talk				
17		Adders and subtractors	Chalk & Talk				
18		Cascading full adders	Chalk & Talk				
19		Look ahead carry, Binary comparators	Chalk & Talk				



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MODULE-3							
20		Flip-Flops: Basic Bistable elements	Chalk & Talk				
21		Latches, Timing considerations	Chalk & Talk				
22		The master-slave flip-flops	Chalk & Talk				
23		SR flip-flops, JK flip-flops	Chalk & Talk				
24		Edge triggered flip-flops	Chalk & Talk				
25		Characteristic equations	Chalk & Talk				



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MODULE 4							
26		Flip-Flops Applications: Registers	Chalk & Talk				
27		binary ripple counters, synchronous binary counters	Chalk & Talk				
28		Counters based on shift registers	Chalk & Talk				
29		Design of a synchronous counter	Chalk & Talk				
30		Design of a synchronous mod-n counter using clocked T Flip Flop	Chalk & Talk				
31		Design of a synchronous mod-n counter using clocked JK Flip Flop	Chalk & Talk				
32		Design of a synchronous mod-n counter using clocked D Flip Flop	Chalk & Talk				
33		Design of a synchronous mod-n counter using clocked SR Flip Flop	Chalk & Talk				
34		Design of asynchronous counter	Chalk & Talk				



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MODULE 5							
35		Sequential Circuit Design: Mealy and Moore models	Chalk & Talk				
36		State machine notation	Chalk & Talk				
37		Synchronous Sequential circuit analysis	Chalk & Talk				
38		Construction of state diagrams	Chalk & Talk				
39		Counter design	Chalk & Talk				
40		Memories: Read only and Read/Write Memories, Programmable ROM, EPROM, Flash memory	ICT				



	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments / Quizzes / Self study	06 (Activity - 01 SRS - 05)		
3	Tutorials / Extra classes	–		
4	Internal Assessments	03		
5	ICT based Teaching (% of usage in Curriculum)	30%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HOD Signature:			HOD Signature:	