

ECE130-02/03 - Introduction to Logic Design

course Schedule - Spring 2001

Week	Day	Date	Topic	Reading	Notes
1	Mon	5-Mar	Introduction & switching circuits		
	Tue	6-Mar	logic expression & turn-signal circuit	1.1-1.3	Homework #1 due
	Thur	8-Mar	number systems & 2's complement	2.1-2.3	Homework #2 due
	Fri	9-Mar	binary arithmetics	2.4	
2	Mon	12-Mar	Boolean algebra / canonical forms	3.1-3.3	Homework #3 due
	Tue	13-Mar	Logic Works (bring your laptop)	1.7	Homework #4 due
	Thur	15-Mar	Analysis of combinational circuit, adders, signal waveforms	4.1-4.2	Homework #5 due
	Fri	16-Mar	Implementation of combinational circuit, logic verification, delay, 7400 series	4.5	
3	Mon	19-Mar	Simplification with Kmaps & don't cares	4.3	Homework #6 due
	Tue	20-Mar	Design of combinational circuit, NAND-NAND, NOR-NOR	4.5-4.6	Homework #7 due
	Thur	22-Mar	Review		Homework #8 due
	Fri	23-Mar	Test #1		
4	Mon	26-Mar	decoders	5.1	
	Tue	27-Mar	multiplexers	5.2	
	Thur	29-Mar	Hex, BCD, adders	5.3	
	Fri	30-Mar	hazards and glitches	5.5	
5	Mon	2-Apr	MSI designs	5.6	
	Tue	3-Apr	tri-state buffers, map-entered variables		
	Thur	5-Apr	Test #2 / Latches and flip-flops		
	Fri	6-Apr	Test #2 / Latches and flip-flops	6.2	
Break			<i>Spring Break</i>		
6	Mon	16-Apr	Sequential Circuit Analysis: J-K ff example	6.1	
	Tue	17-Apr	Sequential Circuit Analysis: D-ff example		
	Thur	19-Apr	device symbol with LogicWorks		
	Fri	20-Apr	Sequence detector design	6.3-6.4	
7	Mon	23-Apr	railroad crossing	6.3-6.4	
	Tue	24-Apr	railroad crossing	6.3-6.4	
	Thur	26-Apr	Counters	7.1	
	Fri	27-Apr	Shift Registers	7.2	Assign Design Project
8	Mon	30-Apr	pop vending machine	8.1-8.2	
	Tue	1-May	pop vending machine	8.2-8.4	
	Thur	3-May	time bomb controller	8.5-8.6	Block Diagram Memo
	Fri	4-May	Test #3		
9	Mon	7-May	Design Project		
	Tue	8-May	Design Project		
	Thur	10-May	Design Project		State Diagram Memo
	Fri	11-May	Design Project		
10	Mon	14-May	Design Project		Verification Memo
	Tue	15-May	Design Project		
	Thur	17-May	quarter review		Project Reports Due
	Fri	18-May	Project Presentations		
11	?	??	Final Exam		To be scheduled