ECE 2210

A. Stolp

Tentative

08/20/21

COURSE SCHEDULE

Week		Date	lect	Topics	Textbook
1	T	08/24	1	Introduction, Basic electrical units & symbols, Kirchhoff's laws	Ch1, 2.1-3, 2.17
	Th	08/26	2	Resistance, Ohm's law, Power, Resistors in parallel & series	2.5-7, 2.11-12, 3.5
2	T	08/31	3	Voltage and current dividers, Sources, Nodes, Grounds, Branches, Meters	2.10, 2.12-16
	Th	09/02	4	Superposition, Practical voltage and current sources	2.18, 3.2
3	M	09/06		Labor Day	
	T	09/07	5	Thevenin & Norton Equivalent Circuits, Max power transfer	2.19
	Th	09/09	6	Thevenin & Norton Equivalent Circuits	notes
4	T	09/14	7	Networks, Nodal analysis	2.17, notes
	Th	09/16	8	Introduction to AC & Signals, Capacitors	2.29, 2.23
5	T	09/21		Exam 1	
	Th	09/23	9	Capacitors, RC first order transients	2.23, 3.6, 2.24
6	T	09/28	10	Inductors, Resonance, RL first order transients	2.24, 3.7, 2.30
	Th	09/30	11	First order transients, Complex numbers	2.34
7	T	10/05	12	Steady-state Sinusoids, Phasors, & Impedance	2.25-26
	Th	10/07	13	Phasors, Impedance, & AC circuits	2.27
	S	10/09		Fall Break	
	Su	10/17			
8	Th	10/21	14	AC circuit examples	2.29-30
	lab lect		15	Filters & Bode plots	2.31-33, notes
	Th	10/21		Exam 2	
9	T	10/26	16	Second order transients, Laplace Impedance, Transfer functions	2.34, notes
	Th	10/28	17	Second order transients, Time-domain solutions	notes
10	T	11/02	18	Second order transients, Initial and final condtions	notes
	Th	11/04	19	Second order transient examples, Systems	notes
11	T	11/09	20	Diodes basics, Diodes in DC circuits	4.2
	Th	11/11	21	Diodes in AC circuits, Rectification	4.2, notes
12	T	11/16	22	Diodes, Transistors	4.3
	lab lect		23	Transistors & Switching circuits	4.3, notes
	Th	11/18		Exam 3	
13	T	11/23	24	Operational Amplifiers	Ch 8
	Th	11/25		Thanksgiving	
14	T	11/30	25	Operational Amplifiers	Ch 8
	Th	12/02	26	RMS and AC Power	2.21-22
15	T	12/07	27	AC Power, RMS, examples	2.28, 3.8
	Th	12/09	28	AC Power, Transformers, 3 phase, Y, Delta	Appendix A
16	T	12/14		Review, 1:00 pm	
	W	12/15		Final Exam, 8:00 - 10:00 am	