

ECE 3600

A. Stolp

Tentative

08/14/20

COURSE SCHEDULE

Week	Date	lect	Topics	Textbook
1	T 08/25	1	Introduction, Energy sources, generation, & environment	notes
	Th 08/27	2	Review of steady-state AC and phasors	1.1,2, notes
2	T 09/01	3	Review of RMS, Single-phase AC power	notes, 1.8
	Th 09/03	4	Single-phase AC power, P, Q, S, S , pf, pf correction	
3	M 09/07	Labor Day		
	T 09/08	5	3-phase power, Y- and delta-connections	2.1-2
	Th 09/10	6	3-phase power, balanced systems, efficiency, One-line diagrams	2.4-6
4	T 09/15	7	One-line diagrams, Electromagnetics, Ideal transformers, Ratings	2.6, 1.4
	Th 09/17	8	Transformation of impedance, Model of the non-ideal transformer	1.4
5	T 09/22	9	Transformer voltage regulation, Autotransformers, 3-phase, etc.	3.1-4
	Th 09/24	Exam 1		
6	T 09/29	10	Per-unit system	3.5-8
	Th 10/01	11	Per-unit system	3.9-12
7	T 10/06	12	Rotational Motion, AC Machinery Fundamentals, Synchronous machines	1.3, Ch 4
	Th 10/08	13	Synchronous machines as generators	5.1-4
8	T 10/13	14	Synchronous machines as motors, pf correction	5.4-8
	Th 10/15	15	Synchronous generator on line, 3-phase Induction motors	5.9-13, Ch 6
9	T 10/20	Exam 2		
	Th 10/22	16	3-phase Induction motors	Ch 7
10	T 10/27	17	Single-phase Induction motors, DC motors	notes
	Th 10/29	18	DC motors	Ch 8
11	T 11/03	19	DC motors	Ch 8
	Th 11/05	20	Transmission lines and models	Ch 9
12	T 11/10	21	Transmission line models and calculations	Ch 9
	Th 11/12	Exam 3		
13	T 11/17	22	Power System	Ch 10
	Th 11/19	23	Power Flow	Ch 10, 11
14	T 11/24	24	Power Flow	Ch 11
	Th 11/26	Thanksgiving		
15	T 12/01	25	Symmetrical faults	Ch 12
	Th 12/03	26	Faults, The 3 "sequences", Unsymmetrical faults	Ch 12, 13
16	T 12/08	Review, 4:00		
	W 12/09	Final Exam, 1:00 - 3:00 PM		