ECE 3600

Tentative COURSE SCHEDULE A. Stolp 08/13/19

Neek		Date	lect	COURSE SCHEDULE Topics	Textbook
1	Th	08/20	1	Introduction, Energy sources, generation, & environment Review of steady-state AC and phasors Field Trip - Gadsby Power plant (in place of lab)	notes 1.1,2, note
	Т	08/26 08/27 08/29	3 4	Field Trip - Gadsby Power plant (in place of lab but starts at 2:00pm) Review of RMS, Single-phase AC power Single-phase AC power, P, Q, S, S , pf, pf correction	notes, 1.
3	Μ	09/02		Labor Day	
_	T Th	09/03 09/05 09/06		3-phase power, Y- and delta-connections 3-phase power, balanced systems, Efficiency First lab: Electrical safety & Power factor correction	2.1-2 2.4-6
	Т	09/09 09/10 09/12	7 8	First lab: Electrical safety & Power factor correction One-line diagrams, Electromagnetics Ideal transformers, Ratings, Transformation of impedance	2.6, 1.4 1.4
-	Th	09/17 09/19 09/20		Transformers, Model of the non-ideal transformer Transformer voltage regulation, Autotransformers, 3-phase, etc. Field Trip - Rocky Mountain Power dispatch (in place of lab)	3.1-4 3.5-8
	Т		11	Field Trip - Rocky Mountain Power dispatch (in place of lab but may start at 2:00pm) Per-unit system	3.9-12
L		09/26 09/27		Exam 1 Lab 2: Transformer model	
7		09/30		Lab 2: Transformer model	
	Т	10/01 10/03		Rotational Motion, AC Machinery Fundamentals Synchronous machines	1.3, Ch 5.1-4
		10/05 10/13		Fall Break	
				Synchronous machines as generators Synchronous machines as motors, pf correction	5.4-8 5.9-13
9				Field Trip - Substation (alternates with lab 3) Lab 3: Synchronous machines, Connection to the "line" Synchronous generator on line 3-phase Induction motors	Ch 6 Ch 7
-		10/29 10/31		Induction motors Single-phase Induction motors	Ch 7 Ch 8
11	т	11/05	20	DC motors	
Ľ	Th	11/07		Exam 2	
12		Lab		Lab 4: Induction motors	
				DC motors	Ch 8
	Th	11/14	22	DC motors	Ch 8
-			-	Transmission lines and models	Ch 9
	١h	11/21	22	Transmission line models and calculations	Ch 9
14	т	Lab 11/26	ک د	Lab 5: DC motors Symmetrical faults	Ch 12
Γ		11/28	20	Thanksgiving	
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15				Faults, The 3 "sequences" Unsymmetrical faults	Ch 12, 1 Ch 13
		12/09		Review, 4:00 ?? (may change, listen in class)	
16	Т	12/10		Final Exam, 1:00 - 3:00 PM	