

ECE 3600 Fall Semester 2025 Lectures

08/11/25

Week	Month	Mon	Tue	Wed	Thur	Fri
1	Aug	18	19 L1 Introduction, Energy sources, generation, & environment	20 L2 Hw1, Review	21 L3 Review of steady-state AC and phasors	22
2		25	26 L4 RMS, Single-phase AC power	27 L5 Single-phase AC	28 L6 Single-phase AC power, 3-phase power, Y and delta connections	29
3	Sept	1 Labor Day	2 L7 3-phase power, balanced systems, efficiency, One-line diagrams	3	4 L8 Electromagnetics, Ideal transformers, Ratings	5
4		8	9 L9 Transformation of impedance, Model of the non-ideal transformer	10	11 L10 Non-ideal transformer, Voltage reg., Autotransformers, 3-phase, etc.	12
5		15	16 L11 Per-unit system, One-line diagrams	17 Exam 1	18 L12 Per-phase, Per-unit	19
6		22	23 L13 Rotational Motion, AC Machinery Fundamentals, Synchronous machines	24	25 L14 Synchronous machines as generators, Examples	26
7	Oct	29	30 L15 Placing generator on-line, Sync machines as motors, pf correction	1	2 L16 Sync motor examples, Starting Sync motors, 3-phase Induction motors	3
		6	7 Fall Break	8	9	10
8		13	14 L17 3-phase Induction motors, examples	15 Dispatch Center field trip	16 L18 3-phase Induction motor examples	17
9		20	21 L19 3-phase Ind motor types, tests, Single-phase Induction motors	22 Exam 2	23 L20 Single-phase Induction motors, DC motors	24
10		27	28 L21 DC motors	29	30 L22 DC motors & loads	31
11	Nov	3	4 L23 Finish DC motors, Transmission lines	5	6 L24 Transmission line models and calculations	7
12		10	11 L25 Finish transmission lines, Power Flow	12	13 L26 Power Flow & example	14
13		17	18 L27 Faults	19 Exam 3	20 L28 Types of faults, The 3 "sequences"	21
14		24	25 L29 Sequence Impedances, Protection, ME Design Day??	26	27 Thanksgiving	28
15	Dec	1	2 L30 Protection, ME Design Day?? (not sure of date)	3	4 L31 Protection, Review	5 Reading Day
16		8	9 Review	10 Final 1:00	11	12