Week	Month	Mon	Tue	Wed	Thur	Fri
1	Jan	9 L1 Syllabus, etc. Servo, Introduction to Feedback Systems, Block diagrams	10	11 L2 Transfer functions and signals, The Laplace transform of signals	12	13 L3 The Laplace transform, Relationship between pole locations and
2		16 Martin Luther King Day	17	18 L4 Inverse of Laplace transforms using partial fraction expansions	19	20 L5 Inverse Laplace, Properties of signals (bounded, converge)
3		23 L6 Transfer functions, Interconnected systems, Feedback system	24	25 L7 Systems, Circuits, BIBO stability	26	27 L8 Responses to impulse and step inputs, 1st & 2nd order
4		30 L9 Responses to step inputs, % overshoot, effect of zeros	31	1 L10 Responses to sinusoidal inputs, sinusoidal steady-state	2	3 L11 Effect of initial conditions, State-space advantages
5	Feb	6 L12 Electrical analogies of mechanical systems	7	8 L13 Electrical analogies of mechanical systems	9	10 Exam 1
6		13 L14 Stability and Performance of Control Systems	14	15 L15 Steady-state error and integral control	16	17 L16 Routh-Hurwitz stability test
7		20 Presidents Day	21	22 L17 Root-locus introduction, main rules, RL1	23	24 L18 Root-locus main rules, examples
8		27 L19 Root-locus additional rules, examples	28	1 L20 Root-locus additional rules, examples	2	3 L21 Root-locus design, PI, Lag, PD, Lead, Example 1
9	Mar	6 Spring Break	7	8	9	10
10		13 L22 Root-locus design, PID, Lag - lead, Catchup and Review	14	15 L23 Feedback design for phase-locked loops, discussion of PLL lab	16	17 Exam 2
11		20 L24 Variations of Root Locus	21	22 L25 Pole dominance, Physical realization,	23	24 L26 PID tuning and Relay logic
12		27 L27 Ladder Logic & Programmable Logic Controllers (PLCs)	28	29 L28 Frequency-Domain, Bode plots, basic examples	30	31 L29 Bode Plots complex poles & zeros, damping fact., nat. freq.
13	April	3 L30 Bode Plots to Transfer functions	4	5 L31 Bode Plots to Transfer functions, Gain and phase margins	6	7 Exam 3
14		10 L32 Relation to transient response, Frequency-Domain Design	11	12 L33 Amplifier Feedback & freq response, Op Amp compensation, Zin, Zout	13	14 L34 Discrete-time Signals and Systems
15		17 L35 The z-transform and properties	18	19 L36 Properties of the z-transform	20 ME Design Day, Union Build.	21 L37 Inverse z-transform
16		24 L38 Digital control	25 Last Day of Classes	26 Reading Day	27 Finals ECE 3510 Review	28 3510 Final 10:30 AM
17	Мау	1	2	3	4 Freedom	5