EEE 117 – Spring 2019 **Homework Organization**

Week	Set	Date Avail At 06:00 AM	Date Due At 05:00:00 AM	Topics
1				
2	1	01/22/2019	01/30/2019	Section 9.1 – Sinusoidal Source Section 9.2 – Sinusoidal Response Section 9.3 – The Phasor Section 9.4 – Phasor Form of Passive Elements Section 9.5 – KCL/KVL in Freq Domain
3	2	01/22/2019	02/04/2019	Section 9.6 - Series and Parallel Simplifications Section 9.7 – Source Transformations and Thévenin-Norton Equivalent Circuits Section 9.8 – The Node-Voltage Method Section 9.9 – The Mesh-Current Method Section 9.10 – The Transformer Section 9.11 – The Ideal Transformer
4	3	01/22/2019	02/11/2019	Section 10.1 - Instantaneous Power Section 10.2 – Average Power Section 10.3 – rms Section 10.4 - Complex Power Section 10.5 – Power Calculations Section 10.6 – Maximum Power
5	4	01/28/2019	02/18/2019	Section 11.1 – Balanced Three-Phase Voltages Section 11.2 – Three-Phase Voltage Sources Section 11.3 – Analysis of Wye-Wye Circuit Section 11.4 – Analysis of Wye-Delta Circuit Section 11.5 – Power Calcs in Balanced 3-Phase Section 11.6 – Average Power in 3-Phase
6	5	02/04/2019	02/25/2019	Section 12.1 – Definition of Laplace Transform Section 12.2 – The Step Function
7	6	02/11/2019	03/04/2019	Section 12.3 – The Impulse Function Section 12.4 – Functional Transforms Section 12.5 – Operational Transforms
8	7	02/18/2019	03/11/2019	Section 12.6 – Applying the Laplace Transform Section 12.7 – Inverse Transforms

9				Spring Break
10	8	02/25/2019	03/25/2019	Section 12.8 – Poles and Zeros of F(s) Section 12.9 – Initial- and Final-Value Theorems Section 13.1 – Circuit Elements in the s Domain
11	9	03/04/2019	04/02/2019	Section 13.2 – Circuit Analysis in the s Domain Section 13.3 – Applications Section 13.4 – The Transfer Function Section 13.5 – The Transfer Function in Partial Fraction Expansions Section 13.7 – The Transfer Function and the Steady-State Sinusoidal Response
12	10	03/11/2019	04/08/2019	Appendix E – Bode Plots Section E.1 – Real, First-Order Poles and Zeros Section E.2 – Straight-Line Amplitude Plots Section E.4 - Straight-Line Phase Angle Plots Section E.5 – Complex Poles and Zeros Section E.6 – Amplitude Plots Section E.8 - Phase Angle Plots
13	11	03/25/2019	04/15/2019	Section 14.1 – Some Preliminaries Section 14.2 – Low-Pass Filters Section 14.3 – High-Pass Filters
14	12	04/01/2019	04/22/2019	Section 14.4 – Bandpass Filters Section 14.5 – Bandreject Filters
15	13	04/08/2019	04/29/2019	Section 15.1 – First-Order Active Filters Section 16.1 – Fourier Analysis: An Overview Section 16.2 – The Fourier Coefficients
16	14	04/15/2019	05/06/2019	Section 16.3 – The Effect of Symmetry on the Fourier Coefficients Section 16.4 – An Alternative Trigonometric Form of the Fourier Series Section 16.5 – An Application Section 16.6 – Average-Power Calculations with Periodic Functions Section 16.7 – The rms Value of a Periodic Function

Quiz and Exam Organization

Week	Quiz	Date Avail At 06:00 AM Due by 23:59:00 PM	Topics
1			
2	1	01/30/2019	Chapter 9 – Circuit Analysis with phasors
3	2	02/06/2019	Chapter 9 – OpAmps in the Phasor Domain
4	3	02/13/2019	Chapter 10 –Complex Power
5		02/20/2019	Midterm #1
6	4	02/27/2019	Chapter 12 – Finding the Laplace Transform
7	5	03/06/2019	Chapter 12 – Inverse Laplace Transform
8	6	03/13/2019	Chapter 13 – s domain with initial conditions
9			Spring Break
10	7	03/27/2019	Chapter 13 – The Transfer Function
11		04/03/2019	Midterm #2
12	8	04/10/2019	Bode Diagrams
13	9	04/17/2019	Chapter 14 – First Order Filters
14	10	04/24/2019	Chapter 15 – Active Low-pass filter
15	11	05/01/2019	Chapter 16 – Fourier Coefficients
16	12	05/08/2019	Chapter 16 - Alternative Trigonometric Form of the Fourier Series
17			Final Exam