King Fahd University of Petroleum and Minerals
Department of Electrical Engineering
EE 207: Signals and Systems (141, 1ˢᵗ Semester 2014)

Text Book: Signals, Systems, and Transforms, 4ᵗʰ Ed. C. L. Phillips, J. M. Parr, and E. A. Riskin, 2008

Course Instructor	Office	Tel	Email	Office Hours
Dr. Saad Al-Abeedi	59-0075	860- 7833	alabeedi@kfupm.edu.sa	Sun. & Tue: 10:00-10:50 AM and 12:20-1:00 PM

Wk	Dates	Chapter/Section Titles
1	31 -4 Sep.	**Chapter 1: Introduction** 1.1: Introduction to Signals & Systems Examples **Chapter 2: Continuous-Time Signals and Systems** 2.1: Transformation of Continuous-Time Signals
2	7-11 Sep.	2.2: Signal Characteristics 2.3: Common Signals in Engineering 2.4: Singularity Functions
3	14-18 Sep.	2.5: Mathematical Functions for Signals 2.6: Continuous-Time Systems 2.7: Properties of Continuous-Time Systems
4	21-25 Sep. (Tues. 23 Nat. Day) 25 Sep. Start of Hajj Holiday	**Chapter 3: Continuous-Time Linear Time-Invariant Systems** 3.1: Impulse Representation of Continuous-Time Signals 3.2: Convolution for Continuous-Time LTI Systems
		Hajj Holiday
5	12- 16 Oct.	3.3: Properties of Convolution 3.4: Properties of Continuous-Time LTI Systems **Chapter 4: Fourier Series** 4.1: Function Approximation
6	19-23 Oct.	4.2: Fourier Series 4.3: Fourier Series and Frequency Spectra
7	26-30 Oct.	4.5: System Analysis 4.6: Fourier Series Transformations **Chapter 5: Fourier Transform** 5.1: Definition of the Fourier Transform
	Tuesday 28 Oct.	Major Exam I (up to the End of Chapter 4) – 7-9PM
8	2-6 Nov.	5.2: Properties of the Fourier Transform 5.3: Fourier Transform of common Functions
9	9-13 Nov.	5.5: Applications of the Fourier Transform 5.6: Energy and Power Density Spectra **Chapter 6: Applications of the Fourier Transform** 6.1: Ideal filters
10	16-20 Nov.	6.3: Concept of Bandwidth **Chapter 7: The Laplace Transform** 7.1: Definition of Laplace Transforms 7.2: Examples of Laplace transform
11	23-27 Nov.	7.3: Laplace Transforms of Functions 7.4: Laplace Transform Properties 7.6: Response of LTI Systems
	Sunday 30 Nov.	Major Exam II (covered material Ch5 up to the end of 7.6) – 7-9PM
12	30-4 Dec.	7.7: LTI Systems Characteristics **Signal Sampling and Reconstruction** 5.4: Sampling of Continuous-Time Signals
13	7-11 Dec.	6.4: Reconstruction of Signals from Sampled Data **Chapter 10: Discrete-Time Linear Time-Invariant Systems** 10.1: Impulse Representation of Discrete-Time signals 10.2: Convolution for Discrete-Time Systems
14	14-18 Dec.	10.3: Properties of Discrete-Time LTI Systems 10.4: Difference-Equation Models *(up to equation 10.48)* **Chapter 11: The z-Transform** 11.1: Definition of z-Transform 11.2: Examples
15	21-25 Dec.	11.3: z-Transforms of common Functions 11.4: z-Transform Properties 11.6: inverse z transform by long division and partial fraction expansion
16	28-29 Dec.	Review

Grading Policy:

Class Work (Quizzes 15 %)		Project: 5%
Exam I : 20%	Exam II: 20%	Final Exam: 40%

Notes:
1. The course is fully coordinated.
2. Homework assignments will not be collected. Instead, a quiz related to the homework problems is expected every Tuesday on the next week after the homework assignment week. Homework solution will be posted on Blackboard.
3. Attendance**:** Any student who misses more than 8 classes will receive a grade of DN in the course.
4. There will be absolutely no make-ups for quizzes or exams.
5. Students caught cheating in quizzes, design project, or exams will be given a grade of F in the course and their case will be reported to higher authorities for possible dismissal from KFUPM.