King Saud University   Semester II, 1441H (Spring 2020)
College of Computer & Info Sciences   CEN543 (Female): Digital Signal Processing
Computer Engineering Department   3 Credits

Course Outlines

Week	Dates (Hijri)	Topic
1	24/5/1441H	Registration
2	1/6/1441H	Chapter 2: Discrete-Time Signals and Systems
3	8/6	Chapter 2: Discrete-Time Signals and Systems
4	15/6	Chapter 3: Z-Transform
5	22/6	Chapter 3: Z-Transform
6	29/6	Chapter 4: Sampling of Continuous-Time Signals
7	6/7/1441H	Chapter 4: Sampling of Continuous-Time Signals
Exam I	**1/7/1441H**	**Tuesday Feb. 25, 2020**
8	13/7	Chapter 5: Transform Analysis of LTI Systems
9	20/7	Chapter 6: Structures for Discrete-Time Systems
10	27/7	Chapter 7: Filter Design Techniques
11	5/8/1441H	Chapter 8: Discrete Fourier Transform
12	12/8	Chapter 8: Discrete Fourier Transform
13	19/8	Chapter 9: Fast Fourier Transform
Exam II	**14/8/1441H**	**Tuesday April. 7, 2020**
14	26/8	Advanced Topics
15	3/9/144H	General courses final exams- April 26, 2020
16	10/9	Final exams start: May 3, 2020

Textbooks:
1. *"Discrete-Time Signal Processing,"* A. Oppenheim and R. Schafer, 3rd Edition, Prentice-Hall 2009.
2. *"Digital Signal Processing: Fundamentals and Applications"*, 3rd Edition, Lizhe Tan and Jean Jiang, 2019, AP, Elsevier.

References:
1. *"Digital Signal Processing: Fundamentals and Applications,"* Li Tan, Elsevier 2008.
2. *"Digital Signal Processing,"* A. Oppenheim and R. Schafer, Prentice-Hall 1975.
3. *"Signals and Systems,"* A. Oppenhiem and A. Willsky, 2nd Edition, Prentice-Hall 1997.
4. *"Discrete-Time Processing of Speech Signals,"* J. Deller, J. Hansen, and J. Proakis, IEEE Press 2000.

Grading:
1- Exam I   20%
2- Exam II   20%
3- Assignments   20%
4- Final   40%

Instructor: Prof. Yousef Ajami Alotaibi
Office Location: 2nd floor, Office # 2224, Building 31; **Phone:** 467-7105 or 469-4889;
Email: yaalotaibi@.ksu.edu.sa