EE 313 – Introduction to Communication Systems Fall 2021

Course Objectives:	This is a class to introduce the students with the world of communications. Specific topics are use of Fourier techniques in communication systems design and analysis, amplitude modulation (AM), frequency modulation (FM), random signals and noise in communication systems	
Instructor:	Özgür Gürbüz, Room #1109 ogurbuz@sabanciuniv.edu	
Teaching Assistant:	Kerem Şen, kerem.sen@sabanciuniv.edu	
Class Hours:	Wednesdays, 12:40-13:30, FASS 1008-1010 Thursdays, 13:40-15:30, FENS L062	
Course Text:	Modern Digital and Analog Communication Systems, by B. P. Lathi, 4 th Edition, Oxford Press, NY, 2010.	
Additional Reading:	Introduction to Analog and Digital Communications, by S. Haykin and M. Moher, 2 nd Edition, John Wiley& Sons, 2007.	
	Communication Systems Engineering," y J. G. Proakis and M. Salehi, 2 nd Edition, Prentice-Hall, 2002.	
	Communication Systems, by S. Haykin, 4th Edition, John Wiley& Sons, 2001.	
Course Contents	Introduction to Analog and Digital Communication Systems Review of Signals and Systems Amplitude (Linear) Modulation Angle (Exponential) Modulation Probability, Random Signals and Noise Behavior of Analog Communications in Noise	
Grading:	2 Midterms	25% each
(Tentative)	Final Quizes	30% 20%
Notes:	There will be <i>only one make up test</i> for students who have missed a test (a midterm or the final). The make up grade will replace the grade of the missed test. The make up will take place after the final examination and it will cover the entire the course.	