END2992 Statistics

Instructor	Assoc. Prof. Mehmet Güray Güler mgguler@yildiz.edu.tr http://yarbis1.yildiz.edu.tr/mgguler
Office	A404
Office Hours	Take an appointment
Class	Wednesday 09:00-11:50 – @zoom
Type	Must
Prerequisite	END2202 - Probability
Semester	2020-2021 Spring
TA	İsmail Sevim, ismailsevi@gmail.com

Course Outcomes:
To give the main concepts of statistics, to build a solid background for both business applications and for further academic research.

Suggested Textbook(s):
Probability and Statistics for Engineers and Scientists, Walpole, Myers, Myers, Ye, Prentice Hall, 9th edition, 2011.

Grading:

Midterm Exam 1	30%
Midterm Exam 2	30%
Final	40%

	100%

Notes: Attendance is required. Please do not miss the exams. The make-ups will be much harder. For make-ups you are responsible for the whole semester, i.e., prepare like you are taking the **final exam**.

Week	Subjects	Related Preparation
1	Introduction, probability review	Lecture Notes
2	Exploring data, descriptive statistics	Chapter 8
3	Central limit theorem, sampling distribution of the mean	Chapter 8
4	Hypothesis testing for the mean	Chapter 8-9
5	Point estimation and confidence interval for the mean Midterm 1	Chapter 10
6	Sampling distributions and confidence interval for variance	Chapter 8-9
7	Confidence interval and hypothesis testing for variance.	Chapter 9-10
8	Midterm 2 (W8 or W9: to be announced by the university)	NA
9	Confidence interval and hypothesis testing for the proportion	Chapter 8-9-10
10	Confidence interval and hypothesis testing for the proportion	Chapter 8-9-10
11	Simple Linear Regression	Chapter 11
12	Simple Linear Regression	Chapter 11
13	Multiple Linear Regression	Chapter 12
14	ANOVA	Chapter 13
15	Final	NA