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|---|---|
| **Instructor** | : Belgi Turan (joint with Ozan Ekşi, who will teach Part II) |
| **E-mail** | : belgituran@etu.edu.tr |
| **Classes** | : Thursday  14:30 - 16:20; Amfi 3 |
| |   Friday     08:30 - 10:20; 106 |
| **Class Hours** | : Thursday  11:30 - 14:20 |
| **Office Hours** | : TBA (also by appointment) |
| **Teaching Assistant** | : Ayşe Sevde Gevrek (aysesevdegevrek@etu.edu.tr, Office: 248) |

## Course Content:

Descriptive statistics and graphical analysis. Probability theory. Random variables. Discrete and continuous probability distributions.

## Grading for Part I:

Homeworks          : 10%

Midterm Exam      : 40%

## Recommended Texts:

Statistics For Business and Economics (P. Newbold, W. L. Carlson, B. Thorne).

## Course Outline:

| Week | Topic |
|---|---|
| 1 | Graphical Represetation of the Data |
| 2 | Using Numerical Measures to Describe Data |
| 3 | Probability Methods |
| 4 | Discrete and Continuous Random Variables |
| 5-6 | Probability Distributions of Random Variables |

## Class Rules:

1. **Attendance:** Students are required to attend to at least 70% of classes in order to get a letter grade other than U.

2. **Disruptive Behaviors:** Disruptive behaviors are not permitted. Students with repetitive and disruptive behavior may be removed from class.

3. **Plagiarism, Cheating and Collusion:** Students are expected to refrain from any form of plagiarism, cheating and collusion. Cheating, plagiarism, and collusion are serious offenses resulting in a grade penalty and disciplinary action.

4. **Exams:** The exam in the first part will cover all material that is taught during the class or assigned to students.

5. **Make-up Exams:** A make-up will be given under the conditions accepted by the department. Make-up exams will not be easier than the regular exam. There will be no make-up of homeworks or make-up exams.

6. **Grade Changes:** A grade change will be made only in the unlikely case of an error of fact.

**SUMMER 2023**
**IKT 253 STATISTICS**
**PART II**

| | |
|---|---|
| **Instructor** | : Ozan Ekşi (joint with Belgi Turan, who will teach Part I) |
| **E-mail** | : ozaneksi@gmail.com |
| **Website** | : ozaneksi.weebly.com |
| **Classes** | : Thursday  14:30 - 16:20; Amfi 3 |
| | Friday      08:30 - 10:20; 106 |

**Office Hours:** Thursday  16:30 - 17:20 (also by appointment)
**Teaching Assistant :** Ayşe Sevde Gevrek (aysesevdegevrek@etu.edu.tr, Office: 248)

## Course Content:

Sampling distributions. Point estimation and interval estimation. Hypothesis testing.

**Grading:** The grade will be based on an exam (%50). Each homework will weigh 5% of the course, and for each of them the weight of the exam will fall by 5%. You are allowed (and advised) to do the homeworks in a group of 2 people, but not more.

## Recommended Texts:

Statistics For Business and Economics (P. Newbold, W. L. Carlson, B. Thorne).
(You can also refer to other undergraduate-level textbooks in Statistics.)

| Week | Topic |
|---|---|
| 7 | Distribution of Sample Statistics |
| 8-9 | Confidence Interval Estimation |
| 10 | Hypothesis Tests of a Single Population |
| 11 | Two Population Hypothesis Tests |
| 12 | Course Summary |

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4. **Exams:** The exams will cover all material that is taught during this part (Part II) of the course class or assigned to students.

5. **Make-up Exam:** A make-up will be given under the conditions accepted by the department. Make-up exam will not be easier than regular exams. There will be no make-up homeworks.

6. **Grade Changes:** A grade change will be made only in the unlikely case of an error of fact.