

# TED UNIVERSITY

## IE 492 Senior Project II

Spring 2024-2025

---

Credit Hours: (1+0+4) 3 TEDU Credits, 6 ECTS Credits

### **Advisor:**

#### **Section 1:**

Ece Zeliha Demirci, Ph.D.

Department of Industrial Engineering

Office: A415

Meetings: Scheduled meeting times

Phone: 585-0-375

E-mail: [ece.demirci@tedu.edu.tr](mailto:ece.demirci@tedu.edu.tr)

#### **Section 2:**

Mehmet R. Taner, Ph.D.

Department of Industrial Engineering

Office: A320

Meetings: Scheduled meeting times

Phone: 585-0-024

E-mail: [mehmet.taner@tedu.edu.tr](mailto:mehmet.taner@tedu.edu.tr)

#### **Section 3:**

Elif Zeynep Serper, Ph.D.

Department of Industrial Engineering

Office: A322

Meetings: Scheduled meeting times

Phone: 585-0-588

E-mail: [elif.serper@tedu.edu.tr](mailto:elif.serper@tedu.edu.tr)

**Course Description:** System design: synthesis and implementation. Model validation. Solution methods. Alternative solution proposals and scenario analysis. Implementation strategies.

**Pre-requisites:** IE 491

### **Learning Outcomes:**

1. Construct solution methods to solve the defined problems
2. Generate alternative solutions through scenario and sensitivity analysis
3. Compare and evaluate alternative scenarios and/or solution alternatives through experimentation
4. Defend and justify the designed system to outperform the existing situation and/or meet the desired needs
5. Undertake a functional role in the team work
6. Exhibit professional and ethical responsibility
7. Demonstrate effective oral and written communication skills
8. Learn new concepts on their own required for solving the problem under concern

### **Important Dates (Tentative):**

**Week of February 24 - 27, 2025:** Project Presentation to Company Representatives. Exact presentation dates and times will be announced in the previous week.

**Week of April 7 - 11, 2025:** Project Progress Presentations. Exact presentation dates and times will be announced in the previous week.

**May 26 – May 30, 2025:** Presentation to company representatives (in companies) and final presentations

**June 11, 2025:** Final Report Final Submission (In English, and also in Turkish if requested by the company)

**Finals week (exact date to be determined):** Project Fair

### **Grading:**

Overall Individual Contribution	10%
Progress Presentation	20%
Final Presentation	15%
Final Report	50%
Performance in Project Fair	5%

### **AI Usage Policy for Senior Design Reports**

In this course, students are encouraged to utilize AI tools (such as ChatGPT, machine learning models, or other resources) to assist with research, brainstorming, and writing tasks. However, the use of AI must be accompanied by significant personal effort, analysis, and understanding of the content being produced.

### **Guidelines:**

1. **Active Engagement:** AI tools should be used as a supplement, not a replacement, for your own critical thinking and work. Students are expected to actively engage with AI-generated content, revising and enhancing it to reflect their own ideas, insights, and understanding.
2. **Avoiding Plagiarism:** Simply copying and pasting content generated by AI tools without proper revision, citation, or contribution of your own is considered academic dishonesty. Reports must represent your original work and intellectual effort. If AI is used, students must cite the tools used appropriately.
3. **Contribution Requirement:** While AI can help generate ideas, improve writing clarity, or provide technical explanations, students are expected to demonstrate substantial input

through problem-solving, analysis, and the integration of the AI-generated content into their unique project work.

4. **Documentation of AI Use:** If you use AI tools in any capacity for your reports (whether for brainstorming, technical analysis, or writing), you must clearly document the specific AI tool(s) used and the way they contributed to the work.
5. **Instructor Discretion:** The instructor reserves the right to evaluate the extent of the student's engagement and contribution to any AI-assisted content, and may request clarification or revisions if the work does not meet the standards of original thought and effort.

### **Academic Integrity:**

Please avoid all types of actions that can be considered as cheating or plagiarism. All of the following are considered plagiarism among others according to the web site [www.plagiarism.org](http://www.plagiarism.org):

(i) turning in someone else's work as your own, (ii) copying words or ideas from someone else without giving credit, (iii) failing to put a quotation in quotation marks by referencing it, (iv) giving incorrect information about the source of a quotation, (v) changing words but copying the sentence structure of a source without giving credit, (vi) copying so many words or ideas from a source that it makes up the majority of your work, whether you give credit or not.

**Plagiarism** is a very serious offense and will be penalized accordingly by the university disciplinary committee. The best way to avoid accidentally plagiarizing is to work on your own before you ask for the help of other resources.

**Cheating** has a very broad description which can be summarized as "acting dishonesty". Some of the things that can be considered as cheating are the following:

(i) copying answers on exams and all types of assignments, (ii) using prohibited material on exams, (iii) lying to gain any type of advantage in class, (iv) providing false, modified or forged data in a report, (v) modifying graded material to be re-graded, (vi) causing harm to colleagues by distributing false information about an exam or an assignment.

TED University takes academic integrity seriously. We, the students and faculty of the TED University, dedicate ourselves to upholding the highest standards of academic integrity. Academic integrity means that one's work is the product of one's own effort, and one neither receives nor gives unauthorized assistance in any assignment. Because advanced academic work depends on the sharing of information and ideas, academic integrity at the college level includes rigorous adherence to the conventions for acknowledging one's use of the words and ideas of other people, and instruction in this fundamental skill of college life is available to all TED University students ([www.tedu.edu.tr](http://www.tedu.edu.tr)).