

# IE 241 Cost Analysis in Engineering (3 0 3) (ECTS: 5)

2020-2021 Fall – Tentative Syllabus

## Instructor:

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## Catalog Description:

Introduction to accounting systems; basics of financial accounting; preparation and analysis of financial statements; inventory valuation and depreciation methods; cost terms and classifications; cost-volume-profit analysis; budgeting; variance analysis; allocation of common costs and joint costs; costing systems and their practices in manufacturing and service industry; pricing decisions and cost management.

## Text Book:

1. Charles T. Horngren, Srikant M. Datar, Madhav V. Rajan, Cost Accounting - A Managerial Emphasis, 14<sup>th</sup> Edition, Pearson, 2012
2. Jae K. Shim, Joel G. Siegel, Financial Accounting, McGraw Hill, 1999

## Reference Books:

Leslie G. Eldenburg, Susan K. Wolcott, Cost Management, John Wiley & Sons, 2011.

## Course Outline:

1	Introduction to Accounting Systems, Basics of Financial Accounting
2	Financial Transaction Recording, Preparing Financial Statements
3	Inventory Valuation, Depreciation Methods
4	Introduction to Cost Terms and Classification of Costs
5	Cost Behavior and Cost Functions
6	Cost-Volume-Profit Analysis
7	Master Budget
8	Flexible Budget and Variance Analysis
9	Allocation of Support Department Costs, Common Costs and Revenues
10	Allocation of Joint Costs
11	Job Costing
12	Activity Based Costing
13	Process Costing
14	Pricing Decisions and Cost Management

### **Class Meeting Hours:**

Section 1	Tue. 09:20-11:10	Wed. 09:20-10:10
Section 2	Wed. 13:20-15:10	Thu. 09:20-10:10

- All lectures will be held online simultaneously. Details will be announced later.

### **Tentative Grading:**

- % 30 Homework (3 assignments, each is 10%)
- % 33 Midterm Exam
- % 37 Final Exam

***Letter grades will be mainly based on the catalogue grading system described in Çankaya University regulations.***

***Note that the instructor reserves the right to modify these percentages in case he finds it necessary.***

**Academic Integrity:** All students admitted to Çankaya University are expected to act honestly and ethically. Therefore, any form of dishonesty will not be tolerated. Every student should declare his/her understanding and belief in the Honor Code stated by the department for the examinations and assignments.

**Make-up Exams:** If a student misses midterm exam or final exam and has a valid excuse for his/her absence, a make-up exam will be given. ***A make-up exam may have a different format and may contain different type of questions than the regular exam.***

### **Conditions that may lead to the letter grade “NA”:**

- Not attending the *Midterm Exam* (or its makeup) or the *Final Exam* (or its makeup);
  - If you fail to take the midterm exam (or its makeup), you will NOT be able to take the final exam and you will receive the letter grade NA.
  - If you are eligible to take the final exam but fail to take it (or its makeup) you will receive the letter grade NA.

### **Course Website:**

- Communication will be made through course page at <http://webonline.cankaya.edu.tr>
- Announcements, lecture notes, grades, and other information will be uploaded to course page.
- Every student should check the course page regularly. Students are also responsible for printing the course material (lecture notes, exercises, etc.) from the course web page.

### **Exams and Homework:**

- There will be one midterm exam, final exam, and three homework assignments in this course.
- In *homework assignments*, students should work in teams of *maximum three students*.
  - It is the student’s responsibility to find his/her team members.
  - Each team should submit a single written document including their work for each homework assignment.
- Further details about midterm exam, homework assignments, and final exam will be given later.

**NOTE THAT EVERYTHING ON THIS SYLLABUS IS SUBJECT TO CHANGE. STUDENTS WILL BE NOTED ABOUT ANY CHANGE.**