

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Industrial Engineering (English)

Course Information

ENGINEERING ECONOMICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
INE323	Fall	3	0	3	3

Prerequisites and co-requisites	None
Language of instruction	English
Type	Required
Level of Course	Bachelor's
Lecturer	Prof. Dr. Yusuf Zeren
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	This lesson aims to provide sound and comprehensive coverage of the concept of engineering economics and also address the practical concerns of engineering economics.
Contents of the Course	The topics covered in this course include: • Understanding money and its management. • Evaluating business and engineering. • Development of project cash flows. • Special topics in engineering economics.

Learning Outcomes of Course

#	Learning Outcomes
1	Student gains the information about the basic structure and elements of an investment project
2	Student gains the information of investment types, time value of money and interest, interest formulas and knowledge of types of interest.
3	Student adapts the economical terms in real life problems.
4	

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Engineering economics decisions	Lecturing
2	Time value of money	Lecturing
3	Equivalence under inflation	Lecturing
4	Present worth analysis	Lecturing
5	Rate of return analysis	Lecturing
6	Business and Organizational Structures.	Lecturing
7	Midterm Exam	Exam
8	Accounting depreciation and incomes taxes	Lecturing
9	Project cash-flow analysis	Lecturing
10	Project cash-flow analysis Handling project uncertainty	Lecturing
11	Replacement decisions	Lecturing
12	Benefit-cost- analysis	Lecturing

13	Understanding financial statement	Lecturing
14	Interest factors and compounding	Lecturing
15	Complementary work	Lecturing
16	Final Exam	Exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Fundamentals of Engineering Economics, 2nd. Edition, Pearson International Edition, Chan S. Park		
2	Contemporary Engineering Economics, 5th Edition.,Pearson International Edition, Chan. S. Park		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Student gains the information about the basic structure and elements of an investment project	1	1,2
2	Student gains the information of investment types, time value of money and interest, interest formulas and knowledge of types of interest.	10	1,2
3	Student adapts the economical terms in real life problems.	4	1,2
4			

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	1	14
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	5	5
8	Midterm Exam	1	2	2
9	Quiz	0	0	0
10	Homework	5	1	5
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	20	20

16	Final Exam	1	2	2
				90