

OSTİM TECHNICAL UNIVERSITY ENGINEERING FACULTY

IENG 301 – ENGINEERING ECONOMY COURSE CURRICULUM FORM 2022-2023

IENG 301 – Engineering Economics							
Course Name	Course Code	Period	Hour	Application Time	Lab Time	Credit	ECTS
Engineering Economics	IENG 301	5	4	0	0	4	5

Precondition	No
Language of the Course	English
Type of the Course	Compulsory
Course Level	Bachelor Degree
Method of Teaching	Face to face, Online
Course Learning and Teaching Techniques	Lecture, Question and Answer, Application

The Aim of Course

Engineering economics course aims to teach the methods for choosing the most economical one among the suitable alternatives.

Course Content

Understanding the concept of money and time, using methods suitable for choosing the most economical by determining investment alternatives, replacement analysis, introducing economic decision making methods in environments including depreciation and taxed income and inflation.

Weekly Topics and Related Preparation Studies				
Week	Topics	Preliminary		
1	Introduction			
2	Basic Concepts			
3	Value of Money and Time			
4	Interest rate calculations			
5	Features of investment evaluation techniques			
6	Investment evaluation techniques			
7	Investment evaluation techniques			
8	Midterm Exam			
9	Investment evaluation techniques			
10	Investment evaluation techniques			
11	Investment evaluation techniques			
12	Sensitivity analyzes			
13	Decision making in an inflationary environment			
14	Special topics in engineering economics			
15	Special topics in engineering economics			
16	Final Exam			



Resources (Textbook and Supplementary Books)

 Park, C. S., (2001), Contemporary Engineering Economics, 3th Edition, Prentice Hall, (Ders kitabı).
Fabrycky, W. J., Thuesen, G. J., (1998), Economic Decision Analysis, Prentice Hall. (Ders kitabı).
Degarmo, E. P., Sullivan W. G. and. Bontadelli, J. A., (1990), Engineering Economy, 8th Edition, Macmillan Publishing Company.

Evaluation System				
Studies	Studies Number			
Continue				
Laboratory				
Application				
Field Study				
Course Specific Internship (if applicable)				
Quizzes/Studio/Critical				
Homework				
Presentation				
Projects				
Report				
Seminar				
Midterm Exams/Midterm Jury	1	% 40		
General Exam/Final Jury	1	% 60		
	Total	% 100		
Contribution to the Success Grade of Mid-Semester Studies		% 40		
Contribution of End of Semester Studies to Success Grade		% 60		
	Total	% 100		

Course Category				
Basic Vocational Courses	Х			
Specialization/Field Courses				
Support Lessons				
Communication and Management Skills Lessons				
Transferable Skills Lessons				



Relation of Course Learning Outcomes and Program Qualification							
No	No Program Qualifications / Outcomes		Contribution Level				
NO			2	3	4	5	
1	Ability to design, conduct experiments, collect data, evaluate and interpret results for the analysis and solution of Industrial Engineering problems.					x	
2	To be able to use course information in solving industrial engineering problems.					x	
3	Acquisition of analytical thinking skills				х		
4	Ability to use information technologies required for Industrial Engineering applications.			x			
5	Having an up-to-date and sufficient background in engineering, mathematics, science and social sciences related to industrial engineering; To be able to use the theoretical and applied knowledge in these fields together in solving industrial engineering problems.					x	

ECTS/Workload Table				
Activities	Number	Duration (Hours)	Total Workload	
Lesson hours (Including the exam week: 16 x total lesson hours)	16	4	64	
Laboratory				
Application				
Course Specific Internship				
Field Study				
Out of Class Study Time	16	4	64	
Presentation/Seminar Preparation				
Projects				
Reports				
Homeworks				
Quizzes/Studio Critic				
Preparation Time for Midterm Exams/Midterm Jury	1	16	16	
Preparation Time for the General Exam/General Jury	1	16	16	
Total Workload	(160/3	30 =5)	160	