## Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IND322	Engineering Economy	5	2	2	0	5	5

Prerequisites	
Admission Requirements	

Language of Instruction	French	
Course Type	Compulsory	
Course Level	Bachelor Degree	
Objective	The world's resources are decreasing day by day and the efficient use of these resources is one of the major fields of industrial engineering. In this context, Engineering Economics techniques are among the most effective techniques available. The knowledge that the student obtains through this course, which is obligatory in the program, will be advantageous for evaluation of the projects and investments in internships and in professional life. Hence the objectives of this course are to:  • Give an insight about the time value of money • Ensure that the student is able to compare cash flows occurring at different times.	
	• Give knowledge about the methods of evaluating a project or an investment alternative in everyday work.	
Content	• Give knowledge about the methods of evaluating a project or an investment alternative in everyday work.  Week 1: Introduction to Engineering Economy  Week 2: The Equivalence of Cash Flows and the Concept of Compound Interest.  Week 3: Measures of Worth II  Week 4: Measures of Worth III - Incremental Analysis  Week 5: Measures of Worth III - Additional Methods for Determining the Economic Value.  Week 6: Quiz - Depreciation  Week 7: Depreciation  Week 8: Midterm  Week 9: Taxes - After-Tax Economy Studies  Week 10: Taxes - After-Tax Economy Studies  Week 11: Retirement and Replacement  Week 12: Retirement and Replacement - Quiz  Week 13: Inflation  Week 14: Inflation	
References	<ul> <li>Fleischer, G.A., "Introduction to Engineering Economy", PWS Publishing, Boston, 1994</li> <li>Tolga, E., Kahraman, C., "Mühendislik Ekonomisi", İTÜ Yayınları, İstanbul, 1994</li> <li>Course Notes</li> </ul>	

## **Theory Topics**

Week	Weekly Contents	
1	Introduction to Engineering Economy	
2	The Equivalence of Cash Flows and the Concept of Compound Interest	
3	Measures of Worth I	
4	Measures of Worth II – Incremental Analysis	
5	Measures of Worth III - Additional Methods for Determining the Economic Value	
6	Quiz - Depreciation	
7	Depreciation	

Week	Weekly Contents
8	Midterm
9	Taxes – After-Tax Economy Studies
10	Taxes – After-Tax Economy Studies
11	Retirement and Replacement
12	Retirement and Replacement - Quiz
13	Inflation
14	Inflation