HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: Engineering Economy				
CODE: CE231	**SEMESTER:** FALL			
LANGUAGE: ENGLISH	**TYPE:** COMPULSORY			
PRE-REQUISITES: - **CO-REQUISITES: -**	**THEORY**	**PRACTICAL**	**CREDIT**	**ECTS**
WEEKLY HOURS: 2	2	0	2	3

CONTENT OF THE COURSE:
Introduction to Engineering Economics. Supply-demand relationship, supply elasticity, demand elasticity. Break-even analysis. Simple interest, compound interest. Money and time relations. Methods of selecting a profitable project. Renewal investments. Economic life analysis. Depreciation Accounts. A general overview of the course.

OBJECTIVE OF THE COURSE:
To provide the ability of an engineer to apply economic analysis in an engineering branch that he is an expert, to teach the adequacy and limits of cash flow analysis in the evaluation of investments, to gain the ability to formulate cash flow models in applications.

WEEKLY SCHEDULE AND PRE-STUDY PAGES	
Week	**Topics**
1	Introduction to Engineering Economics
2	Supply-demand relationship, supply elasticity, demand elasticity
3	Break-even analysis
4	Simple interest, compound interest
5	Money and time relations
6	Money and time relations
7	Methods of selecting a profitable project
8	Midterm
9	Methods of selecting a profitable project
10	Methods of selecting a profitable project
11	Methods of selecting a profitable project
12	renovation investments
13	Economic life analysis
14	Depreciation Accounts

TEXTBOOK: Lecture Notes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	3	3	0	0	0	3	0	0	0	0	0
LO2	3	3	0	0	0	3	0	0	0	0	0
LO3	3	3	0	0	0	3	0	0	0	0	0
LO4	3	3	0	0	0	3	0	0	0	0	0
LO5	3	3	0	0	0	3	0	0	0	0	0
	PO: Program Outcomes | LO: Learning Outcomes Values: 0: None | 1: Low | 2: Medium | 3: High										

INSTRUCTOR(S):	Asst.Prof.Dr.Muhammet ÇINAR
FORM PREPARATION DATE:	22.05.2019

LEARNING OUTCOMES OF THE COURSE:

LO1: Moves single cash flows on the timeline using compound interest rate.
LO2: Moves annual cash flows on the timeline using compound interest rate.
LO3: Converts between nominal and effective interest rate
LO4: Converts cash flows into net present value, net future value, annual series, incremental series and rising series.
LO5: Compares alternatives using yield analysis.

CONTRIBUTION OF THE COURSE TOWARDS PROVIDING VOCATIONAL EDUCATION: The student learns the necessary economic analysis techniques for construction projects with cost and return.