



HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: Engineering Ethics					
CODE: FE201		SEMESTER: fall			
LANGUAGE: ENGLISH		TYPE: COMPULSORY			
PRE-REQUISITES: - CO-REQUISITES: -		THEORY	PRACTICAL	CREDIT	ECTS
WEEKLY HOURS: 2		2	0	2	2

CONTENT OF THE COURSE:

Engineering ethics is the field of system of moral principles that apply to the practice of engineering. The field examines and sets the obligations by engineers to society, to their clients, and to the profession. As a scholarly discipline, it is closely related to subjects such as the philosophy of science, the philosophy of engineering, and the ethics of technology.

OBJECTIVE OF THE COURSE:

To explain and understand the moral principles that apply to the practice of engineering.

WEEKLY SCHEDULE

Week	Topics
1	Introduction to the Course: Purpose, Objectives, Scope, Methods, Discussion
2	Introduction to Ethics I
3	Introduction to Ethics II; Initial Discussion of B. F. Goodrich Case
4	Introduction to Philosophy of Engineering I Introduction to Philosophy of Engineering II
5	Introduction to Engineering Ethics: Codes of Ethics, Whistle Blowing, Case Study Methodology
6	First Principles of Engineering Ethics Case Studies: Chernobyl, Three Mile Island
7	Case Studies: B. F. Goodrich A7D Air Force Brakes
8	Midterm
9	Solving Ethical Problems: Discussion of Heroes, Journeys, and Virtue in Mythology
10	Individual, Professional, and Institutional Values
11	Leadership in Engineering and Industry
12	Student Presentation
13	Student Presentation
14	Student Presentation

TEXTBOOK: Lecture Notes, Case study notes

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

INSTRUCTOR(S):	Assoc.Prof.Dr.Şafak Hengirmen Tercan
FORM PREPARATION DATE:	22.05.2019

LEARNING OUTCOMES OF THE COURSE:
<p>LEARNING OUTCOMES OF THE COURSE: LO1: to understand the codes of engineering ethics LO2: to understand the rules and responsibility of an engineer LO3: to understand the problem solving approach. LO4: to detect the case studies and identify the immoral behaviours.</p>

CONTRIBUTION OF THE COURSE TO VOCATIONAL EDUCATION
With this course, students learn about the standards used in ethical principles, professional and ethical responsibility and engineering practices and apply them in real life.