



**HASAN KALYONCU UNIVERSITY**  
**Faculty of Engineering**  
**Course Description Form**

<b>COURSE:</b> Cooperative Education					
<b>CODE:</b> FE400		<b>SEMESTER:</b> SPRING			
<b>LANGUAGE:</b> ENGLISH		<b>TYPE:</b> COMPULSORY			
<b>PRE-REQUISITES: -</b> <b>CO-REQUISITES: -</b>		<b>THEORY</b>	<b>PRACTICAL</b>	<b>CREDIT</b>	<b>ECTS</b>
<b>WEEKLY HOURS:</b>		0	8	4	30

**CONTENT OF THE COURSE:**

An Internship is a supervised pre-professional learning experience that allows students to apply their skills and knowledge in a professional setting. These experiences are designed to enhance the student's preparedness for an intended career with a business, industry, or government agency.

Cooperative education is a partnership between academic institutions and the practical world of work. For students, it is a formal education and practical experience in business, industry or government agency, a blend of theory and application, new skills and knowledge, a competitive salary, and a validation of career choice. Cooperative education is different from internship. It lasts 14 weeks (one semester). A co-op student of alternate semester should work and study as a full-time study.

**OBJECTIVE OF THE COURSE:**

To increase understanding of classroom theory through hands-on Application.

To gain exposure to potential career opportunities.

To sharpen interpersonal skills.

To improve study and design ability by adding experience in the field of study.

**WEEKLY SCHEDULE**

<b>Week</b>	<b>Topics</b>
1	Industrial Field Work
2	Industrial Field Work
3	Industrial Field Work
4	Industrial Field Work – (1.Hang-out callings)
5	Industrial Field Work – (1.Hang-out callings)
6	Industrial Field Work – (1.Hang-out callings)
7	Industrial Field Work – Submission of interim report.
8	Industrial Field Work – (2.Hang-out callings)
9	Industrial Field Work – (2.Hang-out callings)
10	Industrial Field Work – (2.Hang-out callings)
11	Industrial Field Work
12	Industrial Field Work
13	Industrial Field Work
14	Industrial Field Work - Submission of final report.

**TEXTBOOK:** Project Documentations

<b>EVALUATION SYSTEM:</b>		
<b>IN-TERM STUDIES</b>	<b>QUANTITY</b>	<b>PERCENTAGE (%)</b>
Midterm Exam	1	20
Homework	1	30
Laboratory works		
Quiz	2	20
Final Exam	1	30
<b>TOTAL</b>	<b>5</b>	<b>100</b>
CONTRIBUTION OF INTERM STUDIES TO OVERALL GRADE	4	70
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE	1	30
<b>TOTAL</b>	<b>5</b>	<b>100</b>

<b>COURSE CATEGORY:</b>	<b>PERCENTAGE (%)</b>
Mathematics and Basic Sciences	30
Engineering	40
Engineering Design	30
Social Sciences	

<b>TABLE OF ECTS / WORKLOAD:</b>			
<b>Activities</b>	<b>QUANTITY</b>	<b>Duration (Hour)</b>	<b>Total Workload</b>
Course Duration			
Hours for off-the-classroom study (Pre-study, practice)	14	60	840
Laboratory works			
Mid-term	1	20	20
Final examination	1	25	25
Homework			
Quiz			
<b>Total Work Load</b>			<b>885</b>
<b>Total Work Load / 30</b>			<b>29,5</b>
<b>ECTS Credit of the Course</b>			<b>30</b>

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

<b>INSTRUCTOR(S):</b>	
<b>FORM PREPARATION DATE:</b>	22.05.2019

<b>LEARNING OUTCOMES OF THE COURSE:</b>	<b>PROGRAM OUTCOMES:</b>
<p><b>LO1:</b> Students can gain industrial application experience.</p> <p><b>LO2:</b> Students act through the informations which are professional ethics, work areas and conditions</p> <p><b>LO3:</b> Students can gain the integration of working as team.</p>	<p><b>PO1:</b> Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied knowledge in these areas in complex engineering problems.</p> <p><b>PO2:</b> Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.</p> <p><b>PO3:</b> Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.</p> <p><b>PO4:</b> Ability to devise, select, and use modern techniques and tools needed for analyzing and solving complex problems encountered in engineering practice; ability to employ information technologies effectively.</p> <p><b>PO5:</b> Ability to design and conduct experiments, gather data, analyze and interpret results for investigating complex engineering problems or discipline specific research questions.</p> <p><b>PO6:</b> Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.</p> <p><b>PO7:</b> Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language; ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.</p> <p><b>PO8:</b> Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.</p> <p><b>PO9:</b> Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.</p> <p><b>PO10:</b> Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development.</p> <p><b>PO11:</b> Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.</p>