

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Seminar	ESYE690	1-2	2+0	0	2

<b>Prerequisites</b>	None
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Ph.D.
<b>Course Type</b>	Core
<b>Course Coordinator</b>	Prof. Dr. Melek BASAK
<b>Instructors</b>	
<b>Assistants</b>	Duygun Fatih DEMİREL, Eylül Damla GÖNÜL
<b>Goals</b>	<p>The purpose of this course is to develop abilities of Systems Engineering graduate students in conducting and representing their original research. Further, receiving feedback from interested academia may support students in considering aspects they might not otherwise have addressed.</p> <p>Constituting a base for the leadership in the application of research outputs to the service and production systems is among the main objectives of this course. Furthermore, the students are expected to present their original research in worldwide scientific and business environments.</p>
<b>Content</b>	This course consists of seminars which will be presented once a week, on Mondays. The presentation is followed by a question and answer period where the audience can ask any questions they might have that were not answered during the seminar.

Course Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) Students carry out literature survey and trail the recent improvements related to their research topic.	2,3,	2,4	B,D
2) Students improve their report writing abilities.	5,6,10	2,4	B,D
3) Students ability to define the problem, possible solution approaches and structuring the obtained results using proper mathematical language where necessary will be achieved and enhanced.	1	2,4	B,D
4) Students represent their research topic and contributed work to scientific environment.	8,9,10	2,4	B,D
5) Students integrate their research topic and contributed work into production and service systems in business arena.	8,9	2,4	B,D

<b>Teaching Methods:</b>	1: Lecture, 2: Paper Discussion, 3: Lab, 4: Case-study
<b>Assessment Methods:</b>	A: Testing, B: Paper Summary, C: Homework, D: Project

COURSE CONTENT		
Week	Topics	Study Materials
1	Kickoff meeting	none
2-14	Presentations	Literature/self study

<b>RECOMMENDED SOURCES</b>	
<b>Textbook</b>	
<b>Additional Resources</b>	

<b>MATERIAL SHARING</b>	
<b>Documents</b>	
<b>Assignments</b>	
<b>Exams</b>	

<b>ASSESSMENT</b>		
	<b>IN-TERM STUDIES</b>	<b>PERCENTAGE</b>
Advisor meetings		20
Presentation	1	80
Attendance (at least 11 weeks)	13	
	<b>Total</b>	<b>100</b>

<b>COURSE CATEGORY</b>	Expertise/Field Courses
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<b>COURSE'S CONTRIBUTION TO PROGRAM</b>						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Ability to understand and apply natural sciences, mathematics and engineering sciences in advanced level.					X
2	Ability to possess wide and deep knowledge in the field of Systems Engineering including the most recent advances.					X
3	Ability to possess advanced level of required skill, techniques and methods to conduct research by using and evaluating up-to-date information.					X
4	Ability to model, design and develop solutions, under realistic constraints, a system, a process or a product by generating innovative and original ideas.					
5	Ability to transfer advancements in scientific, technical and cultural developments to the society with the ethical responsibility and scientific objectivity.					X
6	Ability to perceive, design and apply an original research process independently: manages this process successfully.					X
7	Ability to execute a comprehensive study that brings innovation to the science and technology or develops technological product/process or adapts an already known method to a new field.					
8	Ability to contribute to the development of science and technology literature by publishing research results in respectable scientific platforms.					X
9	Ability to analyze, synthesize and evaluate critically the ideas and developments in the field of specialization.					X
10	Ability to communicate effectively in writing, orally and visually with peers and wide scientific and social communities by using a foreign language at a level of European Language Portfolio C1 General Level.					X

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Excluding the exam weeks: 13x Total course hours)	13	1-2	19.5
Hours for off-the-classroom study (Pre-study, practice)	13	2	26
Midterm examination	0	0	0
Project	0	0	0
Final examination	0	0	0
Presentation	1	1	1
			46.5
			<b>Total Work Load</b>
			<b>Total Work Load / 25 (h)</b>
			<b>ECTS Credit of the Course</b>
			1.9
			2