COURSE INFORMATON							
Course Title	Code	Semester L+P Hour		Credits	ECTS		
PH.D. THESIS	ESYE700		0+0	NC	150		

Prerequisites

Language of Instruction	English
Course Level	Ph.D.
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	The goal of Ph.D. thesis is to ensure that the student is transformed into a professional researcher and can later take on independent, long-term research commitments.
Content	Each Ph.D. thesis research is unique and has its own merits.

Course Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Ability to do detailed literature survey related to thesis topic, and reach knowledge in depth	1,2,3	2	А
Ability to properly collect, evaluate and asses the required data for the research topic	3,4,5	2	Α
Ability to make experiments/observations to support the study and present the results using scientific language	5,6,7,9	2	А
Ability to defend the studies before the peers and convened jury	10	2	А
Ability to contribute to the existing scientific knowledge in the specific area of research topic	7,8	2	А
Awareness of ethical values	5	2	Α

Teaching Methods:	1: Lecture, 2: Paper discussion, 3: Lab, 4: Case-study
Assessment Methods:	A: Testing, B:Paper Summary, C: Homework, D: Project

	COURSE CONTENT			
Week	Week Topics Study Materi			
1-104+	Research for the Ph.D. Thesis+ Publications+	All research material including books, papers, patents		

	RECOMMENDED SOURCES
Textbook	
Additional Resources	

	MATERIAL SHARING
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms		
Assignment		
Lab Work		
Term Project		
Total		100
Contribution o Final Examination to Overall Grade		
Contribution of In-Term Studies to Overall Grade		
Total		100

COURSE'S CONTRIBUTION TO PROGRAM			
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.					X
5	Ability to transfers advancement in scientific, technical and cultural developments to the society with the ethical responsibility and scientific objectivity.					X
6	Ability to perceive, design and applies 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.					X
8	Ability to contribute to the development of science and technology literature by publishing research results in respectable scientific journals.					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 written, 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

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Excluding the exam weeks: $12x$ Total course hours)			
Hours for off-the-classroom study (Pre-study, practice)			
Homework			
Ph.D. Thesis research and thesis writing			3750
Final oral exam			3
Total Work Load			3753
Total Work Load / 25(h)			150.1
ECTS Credit of the Course			150