COURSE PROFILE

Course Name	Code	Semester	Term	Theory+PS+Lab (hour/week)	Local Credits	ECTS
M.S. Thesis	IT590	Fall/Spring	8	0 + 0 + 6	3	8

Prerequisites	None

Course Language	English
Course Type	Required
Course Lecturer	Assist. Prof. Dr. Gülay Ünel
Course Assistant	Büsra Özdenizci
Course Objectives	This course aims to provide basic skills for the design, development and academic writing of a thesis in an area of information technologies.
Course Learning Outcomes	Upon successful completion of the course, students will be able to understand the basic steps of an academic research work, and be able to design, develop and write a thesis in an area of information technologies.
Course Content	Design, development, and writing of a thesis on an Information Technology problem under the supervision of an academic advisor; submission of the results in the form of a thesis and oral presentation.

COURSE CONTENT

Week	Subjects	Related
1	Thesis Plan	
2	Thesis Study	
3	Thesis Study	
4	Thesis Study	
5	Thesis Study	
6	Thesis Study	
7	Thesis Study	
8	Thesis Study	
9	Thesis Study	
10	Thesis Study	
11	Thesis Study	
12	Thesis Study	
13	Thesis Study	
14	Thesis Presentation	

Course Textbook	No textbook is required – Any textbook about the thesis subject will be appropriate
Recommended References	

Semester Requirements	Number	Percentage of Grade
Attendance/Participation		
Laboratory		
Application		
Special Course Internship (Work Placement)		
Quizzes/Studio Critics		
Homework Assignments		
Presentation		
Project/Thesis	1	100
Seminar/Workshop		
Midterms/Oral Exams		
Final/Resit Exam		
Total	1	100

PERCENTAGE OF SEMESTER WORK	0	0
PERCENTAGE OF FINAL WORK	1	100
Total	1	100

Course Category	Core Courses	X
	Major Area Courses	
	Supportive Courses	
	Media and Management Skills Courses	
	Transferable Skill Courses	

COURSE'S CONTRIBUTION TO PROGRAM

#	Program Qualifications / Outcomes	* Level of Contribution				
		1	2	3	4	5
1	An ability to use the theoretical and applied foundations in mathematics and basic sciences acquired in the undergraduate level to the solutions of problems in information technology area					X
2	An ability to analyze a graduate level problem, identify and define the computing requirements appropriate to its solution, to understand, select and use appropriate technology, tools, standards, protocols, building blocks, and components to solve the problem					X
3	An ability to propose, analyze, design, develop, test and maintain an information technology system including software solutions, security model, computer and network infrastructure, information systems etc. to solve graduate level information technology problems					X
4	An ability to analyze and communicate local and global impact of computing on individuals, organizations and society; and the ability to apply information technology techniques, skills, and tools for regular computing practices as well as to improve effectiveness of current methodologies					X
5	An ability to effectively communicate in oral and written media with all kinds of related audiences, prepare documentation for this purpose; and acquire academic writing skills in a foreign language					X
6	An ability to understand and teach professional, ethical, legal, and social issues and responsibilities of information technology profession and research					X
7	An ability to gain knowledge and conduct research on topics inside and outside the requirements of the information technology profession, and the ability to lead and work within heterogeneous teams of people from different research areas to accomplish interdisciplinary research					X
8	An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information technology research					X

*1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

Activities	**Number**	**Duration (Hours)**	**Total Workload**
Course Hours (Including Exams)			
Tutorials			
Laboratory			
Application			
Special Course Internship (Work Placement)			
Field Work			
Study Hours Out of Class			
Presentations / Seminar			
Project / Thesis	1	200	200
Preparatory reading			
Homework Assignments			
Quizzes			
Midterm Exams			
Final / Resit Exam			
		Total Workload	200

COURSE CATEGORY

ISCED GENERAL AREA CODES	GENERAL AREAS	ISCED BASIC AREA CODES	BASIC EDUCATIONAL AREAS	
1	Education	14	Teacher Training and Educational Sciences	0
2	Humanities and Art	21	Art	0
2	Humanities and Art	22	Humanities	0
3	Social Sciences, Management and Law	31	Social and Behavioural Sciences	0
3	Social Sciences, Management and Law	32	Journalism and Informatics	0
3	Social Sciences, Management and Law	38	Law	0
4	Science	42	Life Sciences	0
4	Science	44	Natural Sciences	0
4	Science	46	Mathematics and Statistics	0
4	Science	48	Computer	100
5	Engineering, Manufacturing and Civil	52	Engineering	0
5	Engineering, Manufacturing and Civil	54	Manufacturing and Processing	0
5	Engineering, Manufacturing and Civil	58	Architecture and Structure	0
6	Agriculture	62	Agriculture, Forestry, Livestock, Fishery	0
6	Agriculture	64	Veterinary	0
7	Medicine and Welfare	72	Medical	0
7	Medicine and Welfare	76	Social Services	0
8	Service	81	Personal Services	0
8	Service	84	Transport Services	0
8	Service	85	Environment Protection	0
8	Service	86	Security Services	0