YS 438
RESEARCH TECHNIQUES
The English
Objectives of this course are to show the ways of scientific studies and enable them to be sophisticated academicians and/or scientists.
Philosophy of science, education and public, hypothesis development in research, description of the issue and objectives, critical evaluation of literature.

Weekly Co	Neekly Course Content		
Week 1	Philosophy of science		
Week 2	Scientific research planning		
Week 3	Project preparation in scientific research		
Week 4	Scientific article preparation		
Week 5	Seminar, poster preparation and presentation		
Week 6	Ethics in scientific studies		
Week 7	Ethics in scientific studies		
Week 8	Midterm exam		
Week 9	Publishing and presentation process of written texts		
Week 10	Research methods		
Week 11	Research methods		
Week12	IMRAD Structure		
Week 13	Fatal mistakes of article writers		
Week 14	Fatal mistakes of article writers		
Week 15	Final exam		

Cour	Course Learning Outcomes			
1	Literature search			
2	Attention to ethical rules in the publication phase			
3	How to get broadcast information			
4	-			
5	-			
6	-			
Cont	Contribution of the Course to Program Qualifications  Contribution			

001	unbullon of the course to Frogram Qualifications	Level
01	The student will have the ability to apply analytical approach, mathematics and science knowledge in software and engineering issues.	5
02	The student will have the ability to identify, define, formulate and solve a problem in software and computer systems.	0
03	The student will have gains scientific research skills in software and engineering problems, has the ability to design a system, part or process.	4
04	The student will have the ability to use the design capability, techniques and tools required for engineering applications.	5
05	The student will have the ability to design, implement and interpret experimental work and software projects by analyzing the results.	4
06	The student will have the ability to work between disciplines and teamwork.	0
07	The student will have the ability to work in international environments and adapt to different cultures.	3
80	The student will have verbal and written communication skills in Turkish and English.	0
09	The student will have the awareness of the necessity of lifelong learning and the ability to realize it.	0
10	The student will gain knowledge of legal issues with the awareness of professional and ethical responsibility.	0
11	The student will have managerial skills (leadership, organization, time and risk management, quality awareness, efficiency, etc.).	5
12	The student will have the ability to participate in social activities, to acquire regular sports habits and to use time in the best way.	0
13	The student will have the ability to find unusual ways and produce projects.	0
14	The student will have professional self-confidence, being an entrepreneur and taking initiative.	0
15	It is sensitive about the problems of the age and looks after the national interests.	5

	Number	Duration (hours)	Number*Duration
Face to face education	14	2	28
Out-of-class study time (pre-study, reinforcement)	5	1	5
Homeworks	0	0	0
Presentation / Seminar preparation	0	0	0
Quizzes	0	0	0
Preparation for midterm exams	1	5	5
midterm exams	1	2	2
Project (Semester assignment)	0	0	0
Lab	0	0	0
field work	0	0	0
Preparation for the final exam	1	10	10
Semester final exam	1	2	2
Research	14	2	28
TOTAL WORKLOAD			80
ECTS			3

		3
Number		Contribution Percentage
	1	100
	0	0
	0	0
		100
		40
		60
		100
	Number	1 0

RESOURCES		
Textbook		
Helpful Resources		