

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
MSc Thesis	BME600	2	(0+0+0)	0	30

Prerequisites	-
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Language of Instruction	English
Course Level	Master's Degree
Course Type	Requirement
Course Coordinator	Prof. Ali Ümit Keskin
Instructors	Academic Staff
Assistants	
Goals	Preparation of a thesis on a theoretical or applied research topic in the area of Biomedical Engineering
Content	Thesis study

Course Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Ability to design, conduct and present research work	1,2,3,4,6,9,11,12	1,2,3	E

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Lab, 4: Case-study
Assessment Methods:	A: Testing, B: Experiment, C: Homework, D: Project, E: Presentation

COURSE CONTENT		
Week	Week	Week
1-14	MSc Thesis Study	

RECOMMENDED SOURCES	
Textbook	

Additional Resources	
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MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Independent Thesis Study and Presentation	1	100
Total		100
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		0
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		100
Total		100

COURSE CATEGORY	Requirement
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		0	1	2	3	4
1	Ability to reach wide and deep knowledge through scientific research in the field of Biomedical Engineering, evaluate, interpret and apply.					X
2	Ability to use scientific methods to cover and apply limited or missing knowledge, and to integrate the knowledge of different disciplines to identify, define, formulate solutions to complex engineering problems.					X
3	Ability to construct Biomedical Engineering problems, develop methods to solve the problems and use innovative methods in the solution.					X
4	Ability to develop new and/or original ideas, tools and algorithms; develop innovative solutions in the design of system, component or process.					X
5	Ability to have extensive knowledge about current techniques and methods applied in Biomedical Engineering and their constraints.					X
6	Ability to design and implement analytical modeling and experimental research, solve and interpret complex situations encountered in the process.					X

7	Ability to use a foreign language (English) at least at the level of European Language Portfolio B2 in verbal and written communication.									X
8	Ability to lead in multidisciplinary teams, develop solutions to complex situations and take responsibility.									X
9	Ability to pass process and the results in Biomedical Engineering field, in national and international area in or outside of the field, systematically and clearly in written or oral form.									X
10	Awareness of the social, legal, ethical and moral values and environmental dimensions. The ability to conduct research and implementation work within the framework of these values.								X	
11	Awareness of the new and emerging applications in Biomedical Engineering field, and the ability to examine them and learn if necessary.									X
12	Ability to read, understand, present, criticise research work and conduct original theoretical or applied research.									X

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Thesis Study	1	750	750
Total Work Load			750
Total Work Load / 25 (h)			30
ECTS Credit of the Course			30