

### MSc program, Department of Biomedical Engineering

<b>Course Unit Title</b>	Master's Thesis
<b>Course Unit Code</b>	BME501
<b>Type of Course Unit</b>	Compulsory
<b>Level of Course Unit</b>	MSc program (with Thesis)
<b>National Credits</b>	0
<b>Number of ECTS Credits Allocated</b>	30
<b>Theoretical (hour/week)</b>	Varies
<b>Practice (hour/week)</b>	Varies
<b>Laboratory (hour/week)</b>	Varies
<b>Year of Study</b>	2
<b>Semester when the course unit is delivered</b>	4
<b>Course Coordinator</b>	Assoc. Prof. Dr. Terin Adalı
<b>Name of Lecturer (s) / Thesis Supervisor (s)</b>	Varies
<b>Name of Assistant (s)</b>	-
<b>Mode of Delivery</b>	Face to Face
<b>Language of Instruction</b>	English
<b>Prerequisites</b>	BME500
<b>Recommended Optional Programme Components</b>	

<b>Course description:</b>		
To solve biomedical problems by systems analytical thinking both in subject specific and interdisciplinary concepts. Carry out independent scientific work and organize, conduct and lead more complex projects. Each master's student is to conduct research in the form of Master's thesis.		
<b>Objectives of the Course:</b>		
Collecting, interpreting, applying, and disseminating related data by taking social, scientific, cultural and ethical values into account.		
<b>Learning Outcomes</b>		
After completing the course, the student will be able to		<b>Assessment</b>
1	Develop and deepen the knowledge achieved.	2,3,4,5
2	Interpret and integrate knowledge from different disciplines and generate and analyse new information.	2,3,4,5
<b>Assessment Methods: 1. Written Exam, 2. Assignment, 3. Project/Report, 4. Presentation, 5. Lab. Work</b>		
<b>Course's Contribution to Program</b>		
		<b>CL</b>
1	Apply the rules of scientific research and ethics.	5
2	Discuss complex biomedical engineering issues as well as own research results comprehensively and in the context of current international research and present these in writing and orally.	5
3	Solve problems by systems analytical thinking both in subject specific and interdisciplinary concepts.	5
4	Combine specialised knowledge of various component disciplines.	5
5	Carry out independent scientific work and organize (capacity of teamwork), conduct and lead more complex projects.	4
6	To assess the social and environmental related effects of their actions.	5
<b>CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate, 4: High, 5: Very High)</b>		
<b>Course Contents</b>		
<b>Week</b>	<b>Topics</b>	<b>Exam</b>
1-30	Conducting research	
<b>Recommended Sources</b>		
Books, articles and other scientific documents related to the field		
<b>Assessment</b>		
Thesis defence 100%		

**Assessment Criteria**

Final grades are determined according to the Near East University Academic Regulations for Undergraduate Studies

**Course Policies**

Governed by Graduate Education Regulations

**ECTS allocated based on Student Workload**

<b>Activities</b>	<b>Number</b>	<b>Duration (hour)</b>	<b>Total Workload(hour)</b>
Course duration in class (including Exam weeks)	14	2	28
Labs and Tutorials	-	-	-
Assignment	-	-	-
Project/Presentation/Report	2	20	40
E-learning activities	-	-	-
Quizzes	-	-	-
Midterm Examination	-	-	-
Final Examination	-	-	-
Self-Study	1	830	830
Total Workload			898
Total Workload/30(h)			30
ECTS Credit of the Course			30