

Course Name	Code	Semester	Theory (hrs/week)	Application (hrs/week)	Laboratory (hrs/week)	ECTS
<b>Muskuloskeletal Sistem Anatomisi</b>	ANA624	1st, 2nd, 3rd and 4th Semester	2	0	2	3
Prerequisites	No					
Course language	Turkish					
Course Type	Optional					
Learning and teaching techniques of the course	Lecture, Question-Answer, Practice - Exercise					
Course instructor(s)	Prof. Salih Murat Akkin, MD					
Course objectives	Gaining general information about bones and joints, understanding the types of joints and the movements made in these joints, general and specific information about the muscular system, understanding the locations and functions of the muscles according to the regions and the nerves that innervate these muscles, and gaining the ability to comment on the disorders that may occur in the loss of function of the muscles.					
Learning outcomes of the course	1- Have general knowledge about bones, joints and muscles. 2- Explain the functions of the musculoskeletal system. 3- Have knowledge about the structure of the movement system and the development and anatomy of the relevant peripheral nervous system.					
Resources	1- Kaplan Arıncı, Alaittin Elhan. Anatomy, 1. Cilt, Güneş Bookstore, Ankara, 2020. 2- Figen Gövsa Gökmen. Systematic Anatomy. İzmir Güven Bookstore, Izmir, 2017. 3- Anne M.R. Agur, Arthur F. Dalley. Moore's Basic Clinical Anatomy. İsmail Nadir Gülek, Tuncay Veysel Peker (Trans. Ed.). Nobel Medical Bookstores, Ankara, 2020. 4- Johannes W. Rohen, Chihiro Yokochi, Elke Lütjen-Drecoll. Human Anatomy Photo Dissection Atlas. Salih Murat Akkin (Trans. Ed.). Deomed, Istanbul, 2009. 5- Urban & Fischer F. Paulsen, J. Waschke. Sobotta Atlas of Human Anatomy. Süleyman Tuna Karahan (Trans. Ed.). Medipres Publishing, Malatya, 2019. 6- Michael Schünke, Erik Schulte, Udo Schumacher, Markus Voll, Karl Wesker. Prometheus Anatomical Atlas, 1. Skin (Internal Organs). Mehmet Yıldırım, Tanya Marur (Trans. Ed.), Palme Publishing House, Istanbul, 2021. 7- Susan Standring. Grays's Anatomy. The Anatomical Basis of Clinical Practice. 41th ed. Philadelphia, PA: Elsevier; 2015.					

### Weekly Course Topics:

WEEKS	TOPICS TO BE DISCUSSED
1. Week	General osteology
2. Week	Bones of the upper extremities
3. Week	Bones of the lower extremities
4. Week	Aksiyal iskelet
5. Week	General joint knowledge and axial skeletal joints
6. Week	Axial skeletal joints
7. Week	Joints of the upper extremities
8. Week	<b>MIDTERM EXAM</b>

9. Week	Joints of the lower extremities
10. Week	General knowledge of muscles and muscles of the upper extremities
11. Week	Upper extremity muscles and lower extremity muscles
12. Week	Muscles of the lower extremities
13. Week	Muscles of the head and neck region
14. Week	Muscles of the back, chest and abdomen
15. Week	<b>FINAL SINAVI</b>

### Student Workload Table

Events	Number	Time	Total Workload
Lesson	14	2	28
Laboratory	14	2	28
Application			
Fieldwork			
Out-of-Class Study Time (Freelancing/Group Work/Pre-Study)	14	1	14
Presentation (Shooting videos/Preparing posters/Making Oral Presentations/Focus Group Interviews/Conducting Surveys/Observation and Report Writing)			
Seminar Preparation			
Project			
Case Study			
Role Playing, Dramatizing			
Writing an article-Criticizing			
Mid-term exams	1	2	2
Final exams	1	3	3
<b>Total workload (hours) / 25(s)</b>		75/25	
<b>Ders ACT</b>			<b>3</b>

### Evaluation System

Semester Studies	Number	Contribution
Midterm Exam	1	%20
Quiz		
Laboratory	1	%20
Application		
Fieldwork		
Course-Specific Internship (If Available)		
Assignments		
Presentation and Seminar		
Projects		
Other		
<b>Total of Semester Studies</b>		<b>%40</b>
<b>Final Work</b>		
Finale	1	%40

Homework		
Application		
Laboratory	1	%20
<b>Total of Final Studies</b>		%60
The Contribution of Semester Studies to the Success Grade		%40
The Contribution of the Final Exam to the Success Grade		%60
<b>Sum of Success Grade</b>		<b>100</b>

## THE RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM COMPETENCIES

No	Program Qualifications	Learning Outcomes		
		ÖÇ1	ÖÇ2	ÖÇ3
1	Knows the basic structure, functions and working mechanisms of organs and systems and can explain each system in detail.	5	5	5
2	Describe the basic microanatomical structures and developmental processes of tissues, organs and systems in the human body.			4
3	Knows the topographic layouts, surface projections and courses of organs and formations.			
4	It alone can dissect different parts of cadavers, identify organs and other structures.	5		5
5	Radiography can describe normal anatomical structures in MRI and CT images and provide anatomical explanation for pathological conditions.			
6	Can establish, solve and develop hypotheses about anatomy by using anatomy knowledge at a high level.			
7	Can design, implement, conclude and manage an original research process related to anatomy by using appropriate technologies.			
8	Present and publish the results of academic studies in the field of anatomy in reputable domestic and international academic environments.			
9	Observes and teaches social, scientific and ethical values in the stages of collecting, recording, interpreting and announcing data related to the field of anatomy.			
<b>Qualification level: 1: Low, 2: Low/Medium, 3: Medium, 4: High, 5: Excellent</b>				