

Course Name	Code	Semester	Theory (hrs/week)	Application (hrs/week)	Laboratory (hrs/week)	ECTS
<b>Endocrine System and Sensory Organs</b>	ANA629	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. Dr. Salih Murat Akkin, Prof. Dr. Özdemir Sevinç					
Course objectives	To define the formations included in the endocrine system, to know the basic anatomical and functional features and to establish clinical connections; To know the anatomical and functional basic features of the organs of sight, hearing and balance, taste and smell senses and to be able to establish clinical connections.					
Learning outcomes of the course	1- Have general knowledge about the endocrine system and know the anatomical and functional features of the formations included in this system. 2- Have knowledge about the anatomical structure and functions of the sensory organs. 3- Knows the clinical anatomy of the endocrine system and sensory organs.					
Resources	1- Kaplan Arıncı, Alaittin Elhan. Anatomy, 2. 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 Gülekon, 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 Atlas of Anatomy, 3. 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 information about the endocrine system
2. Week	Hypophysis ve epiphysis
3. Week	Glandula thyroidea ve glandula parathyroidea
4. Week	Glandula suprarenalis ve pancreas
5. Week	Orbit
6. Week	Bulbus oculi
7. Week	Nervus opticus, visual pathways and reflexes related to vision
8. Week	<b>MIDTERM EXAM</b>
9. Week	Outer ear

10. Week	Middle ear
11. Week	Inner ear
12. Week	Hearing balance pathways
13. Week	Sense of taste
14. Week	Sense of smell and rhinencephalon
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	%60
Homework		

Application		
Laboratory		
<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	3
2	Describe the basic microanatomical structures and developmental processes of tissues, organs and systems in the human body.			
3	Knows the topographic layouts, surface projections and courses of organs and formations.	5	5	
4	It alone can dissect different parts of cadavers, identify organs and other structures.	4	4	
5	Radiography can describe normal anatomical structures in MRI and CT images and provide anatomical explanation for pathological conditions.			3
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.			

**Qualification level: 1: Low, 2: Low/Medium, 3: Medium, 4: High, 5: Excellent**