

Course Name	Code	Semester	Theory (hrs/week)	Application (hrs/week)	Laboratory (hrs/week)	ECTS
Anatomy of the Central Nervous System	ANA618	1st Semester	2	0	2	3
Prerequisites	No					
Course language	Turkish					
Course Type	Imperative					
Learning and teaching techniques of the course	Theoretical Lectures, Discussion and Laboratory Studies					
Course instructor(s)	Prof. Dr. Salih Murat Akkin, Prof. Dr. Özdemir Sevinç, Assist. Asst. Prof. Ayşe İmge Uslu					
Course objectives	Central nervous system; To know the morphological features, to understand the complicated functions and functions of the central nervous system, to explain the anatomical basis of clinically occurring problems.					
Learning outcomes of the course	1. Know the morphological features of the central nervous system. 2. Explain the functions of the central nervous system. 3. Describe the cross-sectional anatomy of the central nervous system in three basic planes.					
Resources	1- Kaplan Arıncı, Alaittin Elhan. Anatomy, 2 Volumes, Güneş Bookstore, Ankara, 2020. 2- Dogan Taner. Functional Neuroanatomy. METU Publishing, Ankara, 2018. 3- Richard S. Snell. Snell Clinical Neuroanatomy. Mehmet Yıldırım (Trans. Ed.). Nobel Medical Bookstores, Istanbul, 2011. 4- Figen Gövsa Gökmen. Systematic Anatomy. İzmir Güven Bookstore, Izmir, 2017. 5- Reha Erzurumlu, Gülgün Şengül, Emel Ulupınar. Neuroanatomy. Güneş Medical Bookstores, Ankara, 2019. 6- Douglas J. Gould. Neuroanatomy. Yasin Arifoğlu (Trans. Ed.). Istanbul Medical Bookstores, Istanbul, 2018. 7- Susan Standring. Grays's Anatomy. The Anatomical Basis of Clinical Practice. 41th ed. Philadelphia, PA: Elsevier; 2015. 8- Johannes W. Rohen, Chihiro Yokochi, Elke Lütjen-Drecoll. Human Anatomy Photo Dissection Atlas. Salih Murat Akkin (Trans. Ed.). Deomed, Istanbul, 2009. 9- Urban & Fischer F. Paulsen, J. Waschke. Sobotta Atlas of Human Anatomy. Süleyman Tuna Karahan (Trans. Ed.). Medipres Publishing, Malatya, 2019. 10- Michael Schünke, Erik Schulte, Udo Schumacher, Markus Voll, Karl Wesker. Prometheus Atlas of Anatomy, 3. skin (head, neck and neuroanatomy). Mehmet Yıldırım, Tanya Marur (Trans. Ed.), Palme Publishing House, Istanbul, 2021.					

Weekly Course Topics:

WEEKS	TOPICS TO BE DISCUSSED
1. Week	Development of the Central Nervous System and General Information
2. Week	Telencephalon-Gri Cevher
3. Week	Telencephalon-White Matter
4. Week	Ventricular System, Cerebral Membrane and Vessels

5. Week	Diencephalon I
6. Week	Diencephalon II
7. Week	Mesencephalon
8. Week	MIDTERM EXAM
9. Week	Pons and Medulla Oblongata
10. Week	Cerebellum
11. Week	Internal and External structure of the medulla spinalis
12. Week	Transmitter Pathways of the Central Nervous System
13. Week	Limbic System
14. Week	Ways of Seeing and Hearing
15. Week	FINAL SINAVI

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
Total workload (hours) / 25(s)			75/25
Ders ACT			3

Evaluation System

Semester Studies	Number	Contribution
Midterm Exam	1	%40
Quiz		
Laboratory		
Application		
Fieldwork		
Course-Specific Internship (If Available)		
Assignments		
Presentation and Seminar		
Projects		
Other		

Total of Semester Studies		%40
Final Work		
Finale	1	%40
Homework		
Application		
Laboratory	1	%20
Total of Final Studies		%60
The Contribution of Semester Studies to the Success Grade		%40
The Contribution of the Final Exam to the Success Grade		%60
Sum of Success Grade		100

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	4	5
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		4
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.			

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