



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Central Nervous System Anatomy								
Course Code	TAN607		Course Level		Third Cycle (Doctorate Degree)				
ECTS Credit	8	Workload	200 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Students learn about the anatomy of the central nervous system, is intended to gain skills and behaviors.								
Course Content	The formation of the nervous system, nerve cells, and types, sounds and receptorial the nervous system sections, the sections of the central nervous system, spinal cord anatomy, encephalon anatomy								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study								
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Anatomi. K. Arıncı, A. Elhan, 2 print, Güneş Bookstore, Ankara, 2001, ISBN 9757467286
2	Gökmen F. G. Systematic Anatomy, İzmir Güven Bookstore, 2008.
3	Basic Clinical Anatomy 2. print, Keith L. Moore, Anne M. R. Agur, Alaittin Elhan Güneş Bookstore – Ankara, 2006.
4	Netter FH. Atlas of human anatomy (second edition). USA, Novartis, 1997: 268.
5	Sobotta Human Anatomy Atlas Cilt 1-2. 2. In Turkish Prof. Dr. Kaplan Arıncı, H. Ferner ve J. Staubesand – Münih, 1985.
6	Gray's Anatomy for Faculty of Medicine Students, 1. baskı, Prof. Dr. Mehmet Yıldırım, Güneş Bookstore – Ankara, 2007
7	Prometheus Anatomy Atlas, Neuroanatomy Volume:3. Turkish editor; Mehmet Yıldırım, Tania Marur. Erik Schulte Karl Wesker Markus Voll Michael Schünke Udo Schumacher . First Print, Ankara ISBN: 97897564207057.

### Week Weekly Detailed Course Contents & Teaching Methods

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical	The formation of the nervous system, structure and types of neurons, the senses, the senses classification and grouping receptors
	Practice	Work on visual elements and models
	Preparation Work	Individual work
2	Theoretical	Parts of the nervous system and the central nervous system, the central nervous system parts
	Practice	Work on models and cadavers
	Preparation Work	Individual work
3	Theoretical	The external appearance of the spinal cord, segments, internal structure, nutrition and innervation
	Practice	Work on models and cadavers
	Preparation Work	Individual work
4	Theoretical	Gray matter of the spinal cord gray matter structure and laminar organization and cell clusters; columna anterior, columna lateralis, columna posterior
	Practice	Work on models and cadavers
	Preparation Work	Individual work
5	Theoretical	The white matter of the spinal cord; substantia alba, the funiculus anterior, funiculus posterior, funiculus lateralis, the descending and ascending pathways
	Practice	Work on models and cadavers
	Preparation Work	Individual work
6	Theoretical	Encephalon and its parts; Rhombencephalon the Mesencephalon, Prosencephalon, brain lobes, white and gray matter structures of the brain hemispheres, cerebellum
	Practice	Work on models and cadavers
	Preparation Work	Individual work
7	Theoretical	Bulb, pons, mesencephalon anatomy, internal structure and beans
	Practice	Work on models and cadavers



7	Preparation Work	Individual work
8	Theoretical	Cerebellum, lobes, internal structure, beans, floor cerebellum afferent and efferent pathways, rhomboid fossa, Formatio reticularis
	Practice	Work on models and cadavers
	Preparation Work	Individual work
9	Theoretical	Prosencephalon; Diencephalon, Epithalamus, Metathalamus, Thalamus internal structure and beans, Subthalamus, hypothalamus nuclei and afferent and efferent paths, telencephalon, Tertius ventricle
	Practice	Work on models and cadavers
	Preparation Work	Individual work
10	Theoretical	Deep grooves in the outer surface of the brain, the brain lobes, functional areas of the cerebral cortex, the brain's gray and white matter structure hemispheres, basal ganglia; Nucleus caudatus, Nucleus lentiformis, Claustrum, Corpus amygdaloide I, of the lateral ventricle
	Practice	Work on models and cadavers
	Preparation Work	Individual work
11	Theoretical	Rhinencephalon the limbic lobe and the limbic system, olfactory lobe, hippocampus formation, limbic system function
	Practice	Work on models and cadavers
	Preparation Work	Individual work
12	Theoretical	The membranes of the brain and spinal cord, dura mater, Arachnoidea mater, pia mater Cisterna subarachnoidea, Liquor cerebrospinalis
	Practice	Work on models and cadavers
	Preparation Work	Individual work
13	Theoretical	Arteries and veins of the brain
	Practice	Work on models and cadavers
	Preparation Work	Individual work
14	Theoretical	Dural sinuses, passing through the major structures in cavernous sinus
	Practice	Work on models and cadavers
	Preparation Work	Individual work

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	4	112
Lecture - Practice	14	2	2	56
Assignment	14	1	1	28
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Students know overall structural and functional properties of the nervous system and the classification.
2	Students know portions of the central nervous system, skin and circulation, and can identify structural and functional aspects of the ventricular system.
3	Students know the structural and functional properties of the spinal cord.
4	Students know the structural and functional properties of the brain and cerebellum.
5	

### Programme Outcomes (Anatomy (Medical) Doctorate)

1	Be able to acquire enough knowledge and use of the infrastructure about Human anatomy and clinical anatomy, terminology
2	To use information on the science of anatomy study areas.
3	Anatomy is associated with other related disciplines to comprehend and to synthesize interdisciplinary interaction
4	Obtain the information about Systematic and topographical anatomy of the human-oriented structures, functions and their relationship with each other.
5	Create problems and solutions related fields to reveal the anatomy, experimental methods to gain the ability to solve the hypothesis.
6	Literature search ability, reading scientific papers, be able to evaluation and follow-up-to-date information



7	To be able to prepare the article in the science of anatomy
8	To be able to present papers in the field of science of anatomy
9	To gain enough discipline and experience related to anatomy and to be an expert
10	To have professional ethics and responsibility

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P1	5	4	5	4	5
P2	5	4	5	4	5
P3	5	4	5	4	5
P4	5	4	5	4	5
P5	5	4	5	4	5
P6	5	4	5	4	5
P7	5	4	5	4	5
P8	5	4	5	4	5
P9	5	4	5	4	5
P10	5	4	5	4	5

