



**AYDIN ADNAN MENDERES UNIVERSITY**  
**GRADUATE SCHOOL OF HEALTH SCIENCES**  
**PHYSIOLOGY**  
**PHYSIOLOGY (MEDICAL)**  
**PHYSIOLOGY (MEDICAL) MASTER**  
**COURSE INFORMATION FORM**

Course Title	Neurophysiology and Sensory Physiology								
Course Code	TFZ506	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	6	Workload	150 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Excitation in neurons, action potential, conduction; Brain, brain stem, basal ganglia, reticular formation, limbic system, hypothalamus, Thalamus; Cerebellum and its functions, cortex, motor and sensorial areas, learning; Motion and position controlled voluntary actions, Autonomic nervous system; Sympathic system; Parasympathic system; Receptors and sensation receptions; Skin sensations and touch, Somatic reception, mechanic reception; Pain receptors, pain treshold, pain control; The central neurophysiology of seeing; The ear and hearing, Chemical disorders.								
Course Content	To understand the mechanisms of human central nervous system, Principles of central nervous system, synaptic relations and mechanisms of action of neurotransmitters								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Individual Study								
Name of Lecturer(s)	Prof. Recep ÖZMERDİVENLİ								

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	Guyton, Tibbi Fizyoloji
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Week	Weekly Detailed Course Contents
1	Theoretical
2	Theoretical
3	Theoretical
4	Theoretical
5	Theoretical
6	Theoretical
7	Intermediate Exam
8	Theoretical
9	Theoretical
10	Theoretical
11	Theoretical
12	Theoretical
13	Theoretical
14	Theoretical
15	Theoretical
16	Final Exam

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	1	14	14	28
Lecture - Practice	1	14	14	28
Assignment	10	3	2	50
Reading	3	0	14	42
Midterm Examination	1	0	1	1



Final Examination	1	0	1	1
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	
2	
3	
4	
5	

### Programme Outcomes (Physiology (Medical) Master)

1	To be able to acquire a background needed for basic physiological research and having the ability to use the teoritical and practical knowledge in the field
2	To be able to prepare the article in the science of physiology
3	To be able to present papers in the field of science of physiology
4	To have professional ethics and responsibility
5	To be able to reach a level to follow research in the field, to possess written and spoken communication skills and be able to join discussions

### 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	4	5	3	4	4
P2	3	4	3	3	5
P3	4	5	4	4	4
P4	3	4	3	3	5
P5	5	3	4	5	3

