



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

Course Title	Urinary, Acid-Base Physiology								
Course Code	TFZ504	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	6	Workload	150 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Morphology of the kidneys, nephron; Filtration in glomeruli and its control; Tubular system, reabsorption and excretion; Renal function tests; Body fluid compartments, intercompartmentary transition, The regulation of balance of body fluids, General information about H <sup>+</sup> concentration; pH balance in body, The role of buffering systems in respiratory and urinary systems; Acidosis and alkalosis; General information about electrolytes; Solutions and membrane transport.								
Course Content	Physiological anatomy of the kidneys, Kidney blood flow autoregulation, Renin angiotensin system, Glomerular filtration, Reabsorption in tubules, Secretion in tubules								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Individual Study								
Name of Lecturer(s)	Prof. Rauf Onur EK								

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	Guyton, Tibbi Fizyoloji
2	Vander, İnsan Fizyoloji

Week	Weekly Detailed Course Contents	
1	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	5	5	4	4	5
P2	4	3	4	5	4
P3	5	4	3	3	5
P4	4	4	4	4	3
P5	3	3	5	5	4

