



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Advanced Urinary Physiology							
Course Code		TFZ607		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	156 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Introduce knowledge skills about urinary physiology. Present novel scientific data to participants.							
Course Content		Morphology of the kidneys, nephron; Renal blood stream, intrarenal pressure, peritubular capillaries; Filtration in glomeruli and its control; Tubular system, reabsorbsion and excretion; Concentration and density of urine; Renal function tests; Clearance; Urination, urinary bladder, its structure and function.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, 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	Guyton, Medical Physiology
2	All scientific data about the subject

Week	Weekly Detailed Course Contents	
1	Theoretical	Morphology of the kidneys
	Practice	Morphology of the kidneys practice
	Preparation Work	Reading
2	Theoretical	nephron
	Practice	nephron practice
	Preparation Work	Reading
3	Theoretical	Renal blood stream
	Practice	Renal blood stream practice
	Preparation Work	Reading
4	Theoretical	intrarenal pressure
	Practice	intrarenal pressure practice
	Preparation Work	Reading
5	Theoretical	peritubular capillaries
	Practice	peritubular capillaries practice
	Preparation Work	Reading
6	Theoretical	Filtration in glomeruli
	Practice	Filtration in glomeruli practice
	Preparation Work	Reading
7	Intermediate Exam	Midterm Exam
8	Theoretical	Filtration in glomeruli and its control
	Practice	Filtration in glomeruli and its control practice
	Preparation Work	Reading
9	Theoretical	Tubular system
	Practice	Tubular system practice
	Preparation Work	Reading
10	Theoretical	reabsorbsion and excretion
	Practice	reabsorbsion and excretion practice



10	Preparation Work	Reading
11	Theoretical	Concentration and density of urine
	Practice	Concentration and density of urine practice
	Preparation Work	Reading
12	Theoretical	Renal function tests
	Practice	Renal function tests practice
	Preparation Work	Reading
13	Theoretical	Clearance; Urination, urinary bladder, its structure and function
	Practice	Clearance; Urination, urinary bladder, its structure and function practice
	Preparation Work	Reading
14	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Assignment	10	6	1	70
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				156
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to recognize the importance of advanced urinary physiology
2	To be able to evaluate the relationship between other systems
3	To be able to investigate physiopathological symptoms about the subject
4	Interpret general principals about the subject
5	

Programme Outcomes (Physiology (Medical) Doctorate)

1	Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels.
2	Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed.
3	To learn the laws and regulations both national and international in the field of physiology.
4	To gain ability to apply the principles and fundamentals of scientific ethical rules.
5	Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary.

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

