AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Advanced Circulatory Physiology								
Course Code	TFZ602		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	156 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Introduce knowledge skills about circulatory system. Present novel scientific data to participants.								
Course Content	General specifications of the heart; Heart period and mechanic events, cardiac yield (output), venous return; excitation in heart and conduction; Control of cardiac activity; Normal ECG; Coronary circulation, ischemic heart disorders, Heart sounds; Hemodynamics; Systemic circulation; Arterial pressure and its control; Venous circulation, Pulmonary circulation; Capillary circulation, circulations in specific organs; Lyphatic circulation and edema; Adaptation of circulatory system to specific situations.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)	Prof. Gökhan CESUR								

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	General specifications of the heart; Heart period and mechanic events
	Practice	General specifications of the heart; Heart period and mechanic events practice
	Preparation Work	Reading to Guyton Medical Physiology and other scientific documents
2	Theoretical	cardiac yield (output), venous return; excitation in heart and conduction
	Practice	cardiac yield (output), venous return; excitation in heart and conduction practice
	Preparation Work	Reading
3	Theoretical	Normal ECG; Coronary circulation
	Practice	Normal ECG; Coronary circulation practice
	Preparation Work	Reading
4	Theoretical	ischemic heart disorders, Heart sounds
	Practice	ischemic heart disorders, Heart sounds practice
	Preparation Work	Reading
5	Theoretical	Hemodynamics; Systemic circulation
	Practice	Hemodynamics; Systemic circulation practice
	Preparation Work	Reading
6	Theoretical	Arterial pressure and its control
	Practice	Arterial pressure and its control practice
	Preparation Work	Reading
7	Intermediate Exam	Midterm Exam
8	Theoretical	Venous circulation
	Practice	Venous circulation practice
	Preparation Work	Reading
9	Theoretical	Pulmonary circulation
	Practice	Pulmonary circulation practice
	Preparation Work	Reading
10	Theoretical	Capillary circulation

10	Practice	Capillary circulation practice
	Preparation Work	Reading
11	Theoretical	circulations in specific organs
	Practice	circulations in specific organs practices
	Preparation Work	Reading
12	Theoretical	Lyphatic circulation and edema
	Practice	Lyphatic circulation and edema practice
	Preparation Work	Reading
13	Theoretical	Adaptation of circulatory system to specific situations.
	Practice	Adaptation of circulatory system to specific situations pracice.
	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 circulatory 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	5	4	4	4
P2	4	5	4	4	4
P3	4	5	4	3	3
P4	4	4	5	4	3
P5	5	4	4	4	4