



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Advanced Blood Physiology							
Course Code		TFZ601		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	156 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		To present novel information and tecnuiqes for blood physiology							
Course Content		Functions of blood; Plasma, blood cells, plasma proteins, buffering systems; Production of erythrocytes and its control; Hb; Anemia, Polycythemia; Leukocytes, macrophages and inflammation, Leukemia, agranulocytosis; Immunology and allergy; Blood groups, transfusion; Platelets (Thrombocytes); Hemostasis and clotting of blood; Fibrinolysis; Disorders of clotting; Lymphoid tissues and spleen.							
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 and Hall - Medical Physiology
2	All scientific data about the subject

Week	Weekly Detailed Course Contents	
1	Theoretical	Functions of Blood
	Practice	Representing of laboratory
	Preparation Work	Reading - Guyton and Hall - Medical Physiology
2	Theoretical	Plasma, Blood cells, Plasma proteins
	Practice	Representative video watching
	Preparation Work	Reading
3	Theoretical	Producing erythrocyte and Control, Haemoglobin, anaemia, Polycythemia
	Practice	Counting Erythrocyte
	Preparation Work	Reading
4	Theoretical	Leucocytes, Macrophages and Functions
	Practice	Counting Leucocytes
	Preparation Work	Reading
5	Theoretical	Immunity and Allergy
	Practice	Representative video watching
	Preparation Work	Reading
6	Theoretical	Blood groups, transfusion
	Practice	Blood groups, transfusion practices
	Preparation Work	Reading
7	Intermediate Exam	Midterm Exam
8	Theoretical	Platelets (Thrombocytes)
	Practice	Platelets (Thrombocytes) practices
	Preparation Work	Reading
9	Theoretical	Hemostasis and clotting of blood
	Practice	Hemostasis and clotting of blood practices
	Preparation Work	Reading
10	Theoretical	Fibrinolysis



10	Practice	Fibrinolysis practices
	Preparation Work	Reading
11	Theoretical	Disorders of clotting
	Practice	Disorders of clotting practices
	Preparation Work	Reading
12	Theoretical	Lymphoid tissues
	Practice	Lymphoid tissues practices
	Preparation Work	Reading
13	Practice	Spleen pratics
	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 blood 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	4	4	4	5
P2	5	4	3	4	5
P3	5	4	4	5	4
P4	4	4	4	5	4
P5	4	4	3	5	4

