



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Underwater High Altitude and Space Physiology							
Course Code		TFZ618		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	56 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		To understand aviation high altitude and space physiology; Effects of low oxygen pressure on the body; Effects of accelarotory forces on the body in aviation and space physiology; Physiology of deep sea diving and other hyperbaric conditions; Effect of high partial pressures of gases on the body; Physical problems in diving; Special physiological problems in submarines.							
Course Content		aviation high altitude and space physiology; Effects of low oxygen pressure on the body; Effects of accelarotory forces on the body in aviation and space physiology; Physiology of deep sea diving and other hyperbaric conditions; Effect of high partial pressures of gases on the body; Physical problems in diving; Special physiological problems in submarines.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
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 Physiology
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Week	Weekly Detailed Course Contents	
1	Theoretical	Aviation; high altitude and space physiology 1
2	Theoretical	Aviation; high altitude and space physiology 2
3	Theoretical	Low oxygen pressure effects on the body
4	Theoretical	Acceleration forces in aerospace physiology
5	Theoretical	Acceleration forces in aerospace physiology 2
6	Theoretical	The effects of acceleration forces on the body in aerospace physiology 1
7	Intermediate Exam	visa
8	Theoretical	The effects of acceleration forces on the body in aerospace physiology 2
9	Theoretical	Deep-sea diver 1
10	Theoretical	Deep-sea diver 2
11	Theoretical	physiology of high-pressure processes 1
12	Theoretical	physiology of high-pressure processes 2
13	Theoretical	Effects of high partial pressurized gases on the body
14	Theoretical	Physical problems
15	Theoretical	Specific problems for submarines
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Assignment	4	5	1	24
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				56
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	
2	
3	
4	
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	5	4	5	4	5
P2	4	4	5	5	4
P3	5	4	4	4	4
P4	4	4	4	5	5
P5	5	4	5	4	4

