

AYDIN ADNAN MENDERES UNIVERSITY GRADUATE SCHOOL OF HEALTH SCIENCES MEDICAL BIOLOGY MEDICAL BIOLOGY MEDICAL BIOLOGY MASTER COURSE INFORMATION FORM

Course Title		Exercise Meta	abolism							
Course Code		TIB536		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit 5	;	Workload	125 (Hours)	Theo	ry	2	Practice	0	Laboratory	0
Objectives of the Course										
Course Content										
Work Placement		N/A								
Planned Learning Activities and Teaching Methods		Methods	Expla	anation	(Presentat	tion)				
Name of Lecturer(s)										

Assessment Methods and Criteria

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

Recommended or Required Reading

1 2. Exercise Metabolism, Hardgreeves and Spriet, Library of Congress (2005)

Week	Weekly Detailed Course Contents					
1	Theoretical	Introduction to the exercise metabolism				
2	Theoretical	Anaerobic metabolism during exercise				
3	Theoretical	The carbohydrate metabolism during exercise				
4	Theoretical	The hepatic metabolism during exercise				
5	Theoretical	The lactate transport in skeletal muscle during exrecise				
6	Theoretical	The lipid mobilization in fat during exercise				
7	Theoretical	The lipid metabolism in skeletal muscle during exercise				
8	Theoretical	The effect of exercise to protein and aminoasid metabolsim in skeletal muscle				
9	Intermediate Exam	Midterm Exam				
10	Theoretical	The metabolic factors in fatigue				
11	Theoretical	Fatigue during static and dynamic exercise				
12	Theoretical	The effect of exercise on substrate turnover and oxidation				
13	Theoretical	Lipolysis during exercise				
14	Theoretical	Lactate transport system				
15	Final Exam	Final Exam				

Workload Calculation							
Activity	Quantity	F	Preparation	Duration			Total Workload
Lecture - Theory	13		7		2		117
Midterm Examination	1		2		2		4
Final Examination	1		2		2		4
Total Workload (Hours)							125
[Total Workload (Hours) / 25*] = ECTS						TS	5
*25 hour workload is accented as 1 ECTS							

Learning Outcomes

1	
2	
3	
4	



5

Progr	Programme Outcomes (Medical Biology Master)							
1	To acquire fundamental knowledge on medical biology fie	əld						
2	To gain expertise on molecular biology techniques							
3	To utilize molecular biology techniques							
4	To be able to construct and conduct a research project							
5	To be able to follow and interpret scientific advancements	3						

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

