



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

Course Title	Scientific Research Methods								
Course Code	TIB537	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	2	Workload	47 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course									
Course Content									
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation)								
Name of Lecturer(s)	Assoc. Prof. Abdullah YALÇIN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	1. A Begginers Guide to Scientific Method – Stephen S Carey - Wadsworth Publishing; 4 edition (January 1, 2011)

Week	Weekly Detailed Course Contents	
1	Theoretical	What is science and scientific method
2	Theoretical	Scientific method in daily life
3	Theoretical	Observation
4	Theoretical	Problems of observation and proving based on observation
5	Theoretical	Explanation, Theory and Hypothesis
6	Theoretical	Corralation and Cousation
7	Theoretical	Rival explanations and Conflictions
8	Intermediate Exam	Midterm exam
9	Theoretical	Experimental science
10	Theoretical	Experiment design and experimental controls
11	Theoretical	İncorrect design of experiments
12	Theoretical	Prejudice and Bias
13	Theoretical	Causal Studies
14	Theoretical	Writing scientific reports and scientific presentation
15	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				47
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes	
1	
2	
3	
4	



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Programme Outcomes (*Medical Biology Master*)

1	To acquire fundamental knowledge on medical biology field
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

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

