

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Scientific Rese		earch Method	s						
Course Code		TIB642		Couse Level		Third Cycle (Doctorate 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	on (Presenta	tion)					
Name of Lecture	er(s)								

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	Correlation 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	Incorrect 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)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learni	Learning Outcomes				
1					
2					
3					
4					



Prog	Programme Outcomes (Medical Biology Doctorate)					
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	2	2
P2	3	3	2	4	3
P3	3	4	4	3	3
P4	4	4	3	3	3
P5	3	3	3	3	4

