AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Molecular Advances in Neuroscience								
Course Code	TIB638		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	4	Workload	99 *(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)									

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

Recommended or Required Reading	
1	1. Principles of Neural Science – Eric R. Kandel, James A. Schwarts, Thomas M, Jessell, Steven A. Siegelbaum, AJ. Hudspeth - McGraw-Hill Education / Medical; 5th edition (October 26, 2012)

Week	Weekly Detailed Course Contents	
1	Theoretical	General overview
2	Theoretical	Neuron cell
3	Theoretical	Other cells of nervous system
4	Theoretical	Ion channels
5	Theoretical	Membrane potential
6	Theoretical	Action potential
7	Theoretical	Neurotransmitters
8	Intermediate Exam	Midterm Exam
9	Theoretical	Synaptic transmission
10	Theoretical	Neural basis of cognition
11	Theoretical	Perception
12	Theoretical	Movement
13	Theoretical	Behaviour science
14	Theoretical	Language, speaking and learning
15	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	5	2	91
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
			Total Workload (Hours)	99
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	
2	
3	
4	

5	

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