



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Molecular Developmental Biology								
Course Code	TIB639	Course 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. Developmental Biology - Scott Gilbert – Sinauer Associates, Inc.; 10 edition (June 30, 2013)

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to developmental biology
2	Theoretical	History of embryology
3	Theoretical	Model organisms and methodology of organisms
4	Theoretical	Cellular communication during development
5	Theoretical	Genetics of development
6	Theoretical	Gametogenesis and fertilization
7	Theoretical	Embronic development of simple organisms
8	Intermediate Exam	Midterm Exam
9	Theoretical	D. melanogaster development
10	Theoretical	C. elegans development
11	Theoretical	Amphibian development and beginning of modern embrology
12	Theoretical	Mammalian development
13	Theoretical	Development of central nervous system
14	Theoretical	Metamorphosis, regeneration and aging
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	



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

