



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Cell Cycle and Control							
Course Code		TIB607		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	98 (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)		Prof. Gizem DÖNMEZ YALÇIN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	The Cell: A molecular Approach , Geoffrey M. Copper
2	2. Molecular Cell Biology, Lodish, WH Freeman and Company
3	3. Molecular Biology of the Cell, Alberts, Garland Science

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and regulation of the stages of cell cycle
2	Theoretical	Relationship with cell cycle and cell characteristics
3	Theoretical	Cyclins, cyclin-dependent kinases,
4	Theoretical	Inhibitors of cyclin-dependent kinases and check points
5	Theoretical	Factors affecting the cell cycle
6	Theoretical	Cell death, mechanisms of necrosis / apoptosis
7	Intermediate Exam	Midterm Exam
8	Theoretical	Relationship between cancer and cell cycle control.
9	Theoretical	Relationship between cancer and cell cycle control.
10	Theoretical	Celular senescence
11	Theoretical	Replicative senescence,
12	Theoretical	stress or oncogene induced senescence and mechanisms
13	Theoretical	Seminars and discussion
14	Theoretical	Seminars and discussion
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	4	2	78
Midterm Examination	1	6	2	8
Final Examination	1	10	2	12
Total Workload (Hours)				98
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	
3	



4	
5	
6	

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	L6
P1	5	5	4	4	5	5
P2	2	2	2	2	2	2
P3	1	1	1	1	1	1
P4	2	1	1	1	1	1
P5	3	3	4	4	4	3

