

CELL CYCLE AND ITS REGULATION

1	Course Title:	CELL CYCLE AND ITS REGULATION	
2	Course Code:	BIO6203	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. NİLÜFER ÇİNKILIÇ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	aydemirn@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	to understand the how cell cycle control genes and proteins process the cell cycle mechanisms	
19	Contribution of the Course to Professional Development:	to prepare the biologist which is PhD level completely aware from the cell cycle controllig gene mechanisms	
20	Learning Outcomes:		
		1	To comprehend current research about cell cycle and control mechanism
		2	To be able to understand the current reports and to comment
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	to introduce the cell cycle and historical development		
2	What is cell cycle and its parts		
3	Cell cycle control genes: cyclins		
4	cyclin dependent kinases-cdc		
5	what are tyrosine phosphorylases		

6	cycline inhibitors	
7	cell cycle controllers: outer regulator proteins-hormones	
8	mitosis promotig factor-mpf	
9	anaphase promoting factor-apc complex	
10	cytoplasmic division and gene control mechanism	
11	cytoplasmic division in plants	
12	escape from cell cycle control mechanism	
13	cell death mechanism apoptosis and cancer	
14	other cell death mechanisms	

22	Textbooks, References and/or Other Materials:	cell cycle regulation Phlip Kacldis 2006 Cell Cycle and Growth Control: Biomolecular Regulation and Cancer 14 Mayıs 2004 Yazarı: Gary S. Stein Editörler: Arthur Pardee, Gary S. Stein
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	2	20.00
Final Exam	1	80.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		20.00
Contribution of Final Exam to Success Grade		80.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course	Interactions with students using projects and homeworks literature searching and translating	

24	ECTS / WORK LOAD TABLE
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	5.00	70.00
Homeworks	3	15.00	45.00
Projects	1	15.00	15.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Total Work Load			175.00
Total work load/ 30 hr			5.83
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	1	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	2	0	3	0	0	0	4	0	1	0	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				