AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Apoptosis								
Course Code	THE628		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	150 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	ability to have information about apoptosis								
Course Content	What is programmed cell death? How does it occur? What is the difference between cell necrosis?								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Problem Solving								
Name of Lecturer(s)	Assoc. Prof. Erkan GÜMÜŞ								

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

Recommended or Required Reading	
1	Histoloji ve Hücre Biyolojisi

Week	Weekly Detailed Course Contents	
1	Theoretical	classification of cell death
2	Theoretical	necrosis
3	Theoretical	autophagy
4	Theoretical	apoptosis
5	Theoretical	differences between necrosis and apoptosis
6	Theoretical	physilogical apoptosis
7	Theoretical	pathological apoptosis
8	Intermediate Exam	mid-term exam
9	Theoretical	mechanisms of apoptosis
10	Theoretical	caspases, bcl-2
11	Theoretical	proteins that regulate apoptosis
12	Theoretical	recognition and phagocytosis of the apoptotic cell
13	Theoretical	apoptosis signaling pathways
14	Theoretical	article scan
15	Theoretical	general overview
16	Final Exam	final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	14	2	3	70
Reading	10	0	1	10
			Total Workload (Hours)	150
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	ability to have information about classification of cell deaths
2	ability to have information about necrosis and autophagy
3	ability to have information about apoptosis
4	ability to have information about differences between apoptosis and necrosis

5	ability to have information about caspases and bcl-2

Programme Outcomes *(Histology and Embryology Medical) Doctorate)*	
1	To have basic laboratory skills and attitudes
2	To be a scientist with strong educational background and presentation.
3	To have information about laboratory safety
4	To learn the histology and embryonic development of related organs and systems
5	To know the differences between related organs at the tissue level.

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