	CELL CY	CLE	AND APOPTOSIS							
1	Course Title:	CELL CY	CLE AND APOPTOSIS							
2	Course Code:	VHE602	1							
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	Berrin Zık							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:		udag.edu.tr Ünv. Veteriner Fak. Histoloji Embriyoloji Anabilim Dalı							
17	Website:	http://ww	vw.veteriner.uludag.edu.tr							
18	Objective of the Course:	Learn ce	Il division and mechanism of physiological cell death							
19	Contribution of the Course to Professional Development:	Student I death.	earns cell division and mechanism of physiological cell							
20	Learning Outcomes:									
		1	Learn the importance of cell cycle							
		2	Learn control mechanism of cell cycle.							
		3	Learn to role in tumor formation of cell cycle							
		4	Learn Synchronization of cell cultures							
		5	Learn cell cycle checkpoint							
		6	Learning role of tumor suppressor in cell cycle							
		7	Learn the importance of apoptosis in embryology							
		8	Learn the mechanism of apoptosis							
		9	Learn role of apoptosis in cancer							
		10	Learn the difference between apoptosis and necrosis							
21	Course Content:									
		Со	urse Content:							
Week	Theoretical		Practice							
1	The cell divide: mitosis and meiosis									
2	Phases of cell cyle									
3	Growth factors and D cyclins	a a local								
4	Cell cyle restriction points and check	•								
5	Role of Cyclins and Cyclin-depender	ıı kiriases								
6	Cell cycle inhibitors									

7	Dete	rmin	ation	of cell	cycle	phase	es												
8	Iden	tifica	ation a	nd his	story o	of apop	tosis												
9	The	prop	erties	of Ap	optos	is and	Necro	sis											
10	Apop	otosis	s Indu	cing F	actor	S													
11				nanisn spase:		spases	s and												
12			path athwa		asics:	extrins	sic and	b											
13	Inhib	itors	of ap	optosi	s														
14	Dete	rmin	ation	of apo	ptosis	6													
Materials:								Cii 2.U 3. ba Oc 4.	1.Schwartz, MD Cell Death and the Caspase Cascade Circulation. 1998; 97:227-229 2.Ulukaya E Apoptosis ders notları U.Ü. Biyokimya ABD 3. Schimmer AD Inhibitor of apoptosis proteins: translating basic knowledge into clinical practice. Cancer res. 2004 Oct 15;64(20):7183-90. 4. ÖZER A Temel Histoloji. Nobel Yayın Sanayi Ltd Şti, Bursa, 2011.										
23	Asse	sme	nt						•										
TERM I	LEARN	NING	ACTI	VITIES	3			UMBE	WE	WEIGHT									
Midterr	m Exa	m					R		0.0	0.00									
Quiz							0		_	0.00									
Activit	tes								I	Number Duration (hour) Total Wo Load (hou									
TREGre	etical						1		10	10ρ <sub>4</sub> 00 2.00						28.00			
Practic	als/La	abs								)			0.00			0.00			
Self stu	udy ar	nd pr	epera	tion	. 0				1	14			2.00			28.00			
Homev		AT E	nal E	vam ti	· CIIA	- 1 990	raga			1 28.00						28.00			
Project	ts								10	0.00			0.00	).00			0.00		
Field S	Studies	3							(	)			0.00		0.00				
Midterr	TEC 1	ms S/	WOI	RKI	OAD	TAR	LF			)			0.00		0.00				
Others	3								(	)			0.00		0.00				
Final E	xams									1			2.00			2.00			
Total V																86.00			
Total work load/ 30 hr								2.87											
ECTS Credit of the Course															3.00				
25	25 CONTRIBUTION OF LEAF										OUTC		S TO I	PROC	SRAM	ME			
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	5	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0		
ÖK2	5		4	_	5	5	_	5	_	1,	5	5		<u> </u>	<del>                                     </del>	+			

20	QUALIFICATIONS															
	PQ1	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16														
ÖK1	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK2	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK3	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK4	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0

ÖK5	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK6	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK7	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK8	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK9	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
ÖK10	5	4	4	5	5	5	5	4	4	5	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low		3 Medium				4 Higl	n	5 Very High				