

STEM SELL

1	Course Title:	STEM SELL
2	Course Code:	VET1507
3	Type of Course:	Optional
4	Level of Course:	First Cycle
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:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. HATICE ERDOST
15	Course Lecturers:	Prof. Dr.Hatice ERDOST-
16	Contact information of the Course Coordinator:	Mail:edost@ uludag.edu.tr Uludağ Üniv. Veteriner Fak. Histoloji Embriyoloji Anabilim Dalı
17	Website:	http://www.veteriner.uludag.edu.tr
18	Objective of the Course:	Stem cells (stem cells) get to know understand the similarities and differences with other cells, types of stem cells to learn, which stages of development and how it can be obtained, what are the characteristics of their own, how to take advantage of these cells for therapeutic purposes, the potential to give rise to different cell types and is aimed to teach stem cell that has the power to renew itself.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Learn the stem cells.
	2	Learn the different stem cells cells,
	3	Learn the ways of obtaining stem cells.
	4	Make a comparison of adult and embryonal stem cells.
	5	Learns to use stem cell fields.
	6	Definitions of growth factors.
	7	Understands the importance of growth factors.
	8	Knows the the interaction between stem cells and growth factors.
	9	
	10	

21	Course Content:												
	Course Content:												
Week	Theoretical						Practice						
1	Biology of Stem Cell												
2	The Types of Stem Cell												
3	Embriyonic Stem Cell												
4	The Types of Embriyonic Stem Cell												
5	Use of Embriyonic Stem Cell												
6	Mesenchymal Stem Cell												
7	Adult Stem Cell												
8	Umblical Cord and Placenta Stem Cell												
9	Haemopoietic Stem Cell												
10	Growth Factors												
11	Classes of Growth Factors												
12	Importance of Growth Factors												
13	Interactions Between Stem Cells And Growth Factor												
14	Application Areas of Stem Cells												
22	Textbooks, References and/or Other Materials:						1- Gualandiris A., et all., Mol. Biol. Cell, 11(12):4295-308,2000						
Activites							Number		Duration (hour)		Total Work Load (hour)		
Theoretical Assessment							14		2.00		28.00		
Practicals/Labs							0		0.00		0.00		
Self study and preperation				1		30.00		1.00		14.00			
Homeworks							1		10.00		10.00		
Projects							0		0.00		0.00		
Home Work-project				1		10.00		0.00		0.00			
Field Studies							0		0.00		0.00		
Midterm exams				3		100.00		20.00		20.00			
Total							0		0.00		0.00		
Others							0		0.00		0.00		
Final Exam							1		20.00		20.00		
Total Work Load											112.00		
Total work load/ 30 hr							100.00				3.07		
ECTS Credit of the Course											3.00		
Measurement and Evaluation Techniques Used in the Course													
24	ECTS / WORK LOAD TABLE												

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	5	5	5	5	3	2	4	5	5	5	5	5	0	0	0	0
ÖK2	5	5	4	5	2	1	3	4	5	4	5	5	0	0	0	0
ÖK3	5	5	4	5	2	1	2	4	4	4	5	5	0	0	0	0

ÖK4	5	5	4	5	2	3	3	4	4	5	5	5	0	0	0	0
ÖK5	5	5	4	5	3	4	3	4	3	5	5	5	0	0	0	0
ÖK6	5	5	3	5	3	2	4	5	3	5	5	5	0	0	0	0
ÖK7	5	5	4	5	3	3	2	4	4	4	5	5	0	0	0	0
ÖK8	5	5	4	5	4	4	4	4	3	4	5	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			