EMBRYOLOGY									
1	Course Title:	EMBRY	OLOGY						
2	Course Code:	VET1010							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	2.00							
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	face						
14	Course Coordinator:	Prof. Dr.	BERRIN ZIK						
15	Course Lecturers:		Berrin ZIK						
16	Contact information of the Course Coordinator:	Dr. Ögr. Üyesi Sabire GÜLER bzik@uludag.edu.tr Uludağ Ünv. Veteriner Fak. Histoloji Embriyoloji Anabilim Dalı							
17	Website:	http://www.veteriner.uludag.edu.tr							
18	Objective of the Course:	To investigate the life before birth in domestic animal and before hatching in birds, following zygote and to observe the differences among them							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Mammals and birds will have prior knowledge about the reproductive system						
		2	Gametogenezis learn						
		3	Fertilization and learns to divisions according to animal species,						
		4	Identify the types of placental mammals and domesticate animals						
		5	Implantation learn						
		6	Umbilical cord and learns ekstraembriyonal vesicles,						
		7	Germ leaves define						
		8	Germ of the system learns from leaves,						
		9	Identify the causes of congenital malformations,						

		10	Learns the embryonic stages and organogenesis							
21	Course Content:									
Week	Theoretical		Practice							
1	It begins with introduced and aim of the lesson, introduced of source books, do and history of embryology and used to embryology	efinition								
2	The reproductive system of the female gametogenesis,, ovulation, genital cycle (ovarian cycle and uterinal cycle), estroycle,	cle								
3	The reproductive system of the male, gametogenesis, and internal (accesso glands) and structure of spermatozoa	ory								
4	The transport in the female genital tracocyt and sperm, the fertilization procacrosome reactions, zona reaction, gediscrimination	ess, the ender								
5	Egg types, cleavage shape according species and developments following to in amphioxus, frog, mammals and bird	o zygote								
Activit	les		Number	Duration (hour)	Total Work Load (hour)					
Theore	Reports dorsalis, and the formation of the	he	14	2.00	28.00					
Practic	als/Labs	duction	0	0.00	0.00					
Self stu	dy and preperation		14	1.00	14.00					
Homev	vorks		0	0.00	0.00					
Project	chorion, allantois and yolk sac) and ur	mbilical	0	0.00	0.00					
Field S	itudies		0	0.00	0.00					
Midterr	placenta types . Congenital malformat	ions.	1	5.00	5.00					
Others			2	3.00	6.00					
Fingal E	¹9€%elopment of central nervous syste	m and	1	7.00	7.00					
	Vork Load				65.00					
Total w	⁄ଫୁୟrtsadkନିପnd epidermal organs				2.00					
	Credit of the Course				2.00					
	Permation of the primary optic vesicle, cup, lens, choroid, sclera, cornea and Development of the ears; the outer ea middle ear, the inner ear. Developmer skin and epidermoidal structure.	retina. ır, the								
11	Development of the related organs wit cavity and the oral cavity; palate, teeth gingiva, pharynx and pharyngeal pour salivary glands, tongue. Formation of gland, adrenal gland, thyroid, parathyr gland and thymus.	n, ches, pituitary								

12	Development of the gastrointestin foregut, esophagus, stomach, michindgut, septation of the cloaca. If of the liver, gallbladder and panch Development of respiratory system and lungs, pulmonary morphogen formation of alveoli and larynx.	dgut, Development eas. m; trachea						
13	Development of cardiovascular sy Angiogenesis and hematopoiesis of aortic arches and great arteries systems, heart and lymphatic sys	. Formation s, venous						
14	Development of Urinary systems; Pronephros, mesonephros, metanephros,urogenital sinus. Development of male and female system; Formation of primordial genadogenesis, indifferent stage, stage, external genital organs, maglands.	e genital erm cells, different						
22	Textbooks, References and/or Ot Materials:	her	Editör: Özer A,Yazarlar: Özfiliz N, Erdost H, Zık .Veteriner Embriyoloji (genişletilmiş dördüncü baskı) ISBN 978-9944-77-205-1 . Çeviri Editörü: Başaklar C. Langman's Medikal Embriyoloji. Palme Yayıncılık, Ankara, 2011 3. Çeviri editörü.: İ. Çelik, Y.Öznurlu. Veteriner Embriyoloji. Medipres yayıncılık, 2011. 4.Color Atlas of Embryology by Ulrich Drews 1995					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midterr	n Exam	1	30.00					
Quiz		2	10.00					
Home v	work-project	0	0.00					
Final E	xam	1	60.00					
Total		4	100.00					
	oution of Term (Year) Learning Acti ss Grade	vities to	40.00					
Contrib	oution of Final Exam to Success Gr	ade	60.00					
Total			100.00					
Measu	rement and Evaluation Techniques	S Used in the						
24	ECTS / WORK LOAD TABI	LE						
25	CONTRIBUTIO	RNING OUTCOMES TO PROGRAMME JALIFICATIONS						

PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3 ÖK4

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