EMBRYOGENESIS

1	Course Title:	EMBRYOGENESIS
2	Course Code:	TÜB5013
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	1.00
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. BERRİN AVCI
15	Course Lecturers:	Prof.Dr. Özhan EYİGÖR
16	Contact information of the Course Coordinator:	berrin@uludag.edu.tr (0-224) 2954071 Bursa Uludağ Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Binası, Histoloji ve Embriyoloji Anabilim Dalı, 16059 Nilüfer, BURSA (0-224) 2952525-28 Bursa Uludağ Üniversitesi, Tıp Fakültesi, Tüpbebek Merkezi 16059 Nilüfer, BURSA
17	Website:	
18	Objective of the Course:	To teach the formation of the zygote and the events that ocur in the first eight weeks of intrauterine development
19	Contribution of the Course to Professional Development:	To increase the basic knowledge and hardware in master degree education
20	Learning Outcomes:	
	1	To have knowledge about development of human germ cells
	2	To learn of fertilization stages and molecular mechanisms
	3	To have knowledge a bout early period embryonic development and implantation
	4	To learn of embryonic development
	5	To knowledge about gastrulation, neurulation and somatogenesis
	6	To have on idea of developmental periods on fetal period
	7	To define of differences between fetal and postnatal circulation
	8	To knowledge about development and structure of placenta
	9	To have on idea of critical periods of embryonary and fetal periods and congenital anomalies
	10	
21	Course Content:	

	Course Content:	
Week	Theoretical	Practice

1	Oogenesis	
2	Spermatogenesis	
3	First week of development and implantation	
4	Second week of development	
5	Third week of development; gastrulation	
6	Neurulation and somitogenesis	
7	Induction mechanisms of development on early period	
8	Embryonic period (3-8. weeks)	
9	Embryonic period (3-8. weeks)	
10	Fetal period (9-38. weeks)	
11	Fetal period (9-38. weeks)	
12	Placenta and fetal membrans	
13	Implantation anomalies and multipl pregnancies	
14	Critical periods of development and developmental anomalies	

22	Textbooks, References and/or Other Materials:	Genel Insan Embriyolojisi (Prof. Dr. Aysel Seftalioglu) Langman Medikal Embriyoloji (T. W. Sadler) Klinik yönleriyle Insan Embriyolojisi (K. L. Moore, T. V. N. Persaud).

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	5.00	70.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Total Work Load			85.00
ECTS Credit of the Course			3.00

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	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK2	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK3	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK4	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0

ÖK5	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK6	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK7	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK8	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0
ÖK9	5	3	3	2	2	0	5	3	2	3	2	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**