

# 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 occur 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 about early period embryonic development and implantation
	4	To learn of embryonic development
	5	To have knowledge about gastrulation, neurulation and somatogenesis
	6	To have an idea of developmental periods on fetal period
	7	To define of differences between fetal and postnatal circulation
	8	To have knowledge about development and structure of placenta
	9	To have an idea of critical periods of embryonic and fetal periods and congenital anomalies
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21	Course Content:	
	<b>Course Content:</b>	
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 İnsan Embriyolojisi (Prof. Dr. Aysel Seftalioglu) Langman Medikal Embriyoloji (T. W. Sadler) Klinik yönleriyle İnsan Embriyolojisi (K. L. Moore, T. V. N. Persaud).
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Activites		Number	Duration (hour)	Total Work Load (hour)
Midterm Exam	0	0.00	1.00	14.00
Theoretical	0	0.00		
Practicals/Labs	0	0.00	0.00	0.00
Home work-project	0	0.00	5.00	70.00
Self study and preperation	0	0.00		
Homeworks	0	0.00	0.00	0.00
Total Projects	1	100.00	0.00	0.00
Field Studies	0	0.00	0.00	0.00
Midterm exams	0	0.00	0.00	0.00
Contribution of Final Exam to Success Grade	1	100.00		
Others	0	0.00	0.00	0.00
Total Final Exams	1	100.00	1.00	1.00
Total Work Load				85.00
Total work load/ 30 hr				2.83
<b>24 ECTS / WORK LOAD TABLE</b>				
ECTS Credit of the Course				3.00

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			