HISTOLOGY AND EMBRYOLOGY OF THE FEMALE AND MALE REPRODUCTIVE SYSTEMS

1	Course Title:	HISTOLOGY AND EMBRYOLOGY OF THE FEMALE AND MALE REPRODUCTIVE SYSTEMS
2	Course Code:	TÜB5003
3	Type of Course:	Compulsory
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ÖZHAN EYİGÖR
15	Course Lecturers:	Prof. Dr. Zehra MİNBAY
16	Contact information of the Course Coordinator:	oeyigor@uludag.edu.tr, 0224 2954065, BUÜ Tıp Fakültesi Histoloji ve Embriyoloji AD Görükle/Bursa
17	Website:	
18	Objective of the Course:	To provide an understanding on the histological structure and the embryonic development processes of the organs of the female and male reproductive system.
19	Contribution of the Course to Professional Development:	Course will contribute to the student's academic development since he/she will work with cells and tissues belonging to female and male reproductive organs.
20	Learning Outcomes:	

	1	To comprehend the histological basis of the genital systems.
	2	To be able to identify the tissue components of the systems.
	3	To be able to distinguish and interpret the differences in histological structure between the systems.
	4	To define the anatomical localizations of the female and male reproductive organs.
	5	To be able to prepare histological slides of the organs and comprehend the microscopic properties.
	6	To be able to define the differentiation mechanisms of the female and male reproductive organs during the embryonic stages.
	7	To comprehend the embryonic developmental stages of the reproductive organs.
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Histology of the ovary	Defining the anatomical localization of female genital organs on anatomi and rat dissection atlas.

2	Histology of the oviduct and the uterus	Vaginal smear preparation and microscopical analyzing.
3	Histology of the vagina and the mammary gland	Obtaining and fixation of female genital organs from experimental animal
4	Accessory glands and the external genital organs of the female reproductive system	Preparing ovary slides
5	Histology of the Testis	Preparing oviduct and the uterus slides
6	Genital ducts of the male reproductive system	Preparing vagina slides
7	Accessory glands of the male reproductive system	Microscopy of ovary slides
8	Histology of the penis	Microscopy of vagina slides
9	Development of the gonads I (Undifferentiated stage): Germ cells, migration to gonads and the determination of the sex.	Microscopy of oviduct and the uterus slides
10	Development of the gonads II: Differentiation and the desending of the gonads.	Defining the anatomical localization of male genital organs on anatomy and rat dissection atlas.
11	Development of the genital ducts	Obtaining and fixation of male genital organs from experimental animal
12	Development of the external genitalia	Preparing testis slides
13	Developmental anomalies of the male reproductive system	Microscopy of testis slides
14	Developmental anomalies of the female reproductive system	Microscopy of prostate, vesicular seminalis and penis slides

22	Textbooks, References and/or Other Materials:	1- L.P. Gartner and J.L. Hiatt: Color Textbook of Histology. W.B. Saunders Company, Philadelphia, 1997. 2- M.H. Ross, W. Pawlina: Histology. 6th Ed. Lippincott Williams&Wilkins, Philadelphia, 2011. 3- Carlson BM. Human Embryology and Developmental Biology. 5th edition. Elsevier Saunders, Philadelphia, 2014.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	1	30.00
Home work-project	4	20.00
Final Exam	1	50.00
Total	6	100.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Clasical exam. Microscopy exam

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	4.00	56.00
Homeworks	4	5.00	20.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			152.00
Total work load/ 30 hr			5.07
ECTS Credit of the Course			5.00

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	1	4	3	1	0	1	1	2	1	2	0	0	0	0	0
ÖK2	5	0	2	2	1	0	2	1	2	1	2	0	0	0	0	0
ÖK3	5	0	2	1	1	0	2	1	2	1	2	0	0	0	0	0
ÖK4	5	1	3	3	1	0	2	1	2	1	2	0	0	0	0	0
ÖK5	5	1	3	3	1	0	2	1	2	1	2	0	0	0	0	0
ÖK6	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	0	0	2	1	0	0	0	0	0	0	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**