

HISTOLOGY AND EMBRYOLOGY OF THE FEMALE AND MALE REPRODUCTIVE SYSTEMS

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| 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 EYİĞÖR | |
| 15 | Course Lecturers: | Prof. Dr. Zehra MİNBAŞ | |
| 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. | |

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| 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 |

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| 22 | Textbooks, References and/or Other | 1- L.P. Gartner and J.L. Hiatt: Color Textbook of Histology. |
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| Activites | | Number | Duration (hour) | Total Work Load (hour) |
|---|---|--------------------------------|-----------------|------------------------|
| Theoretical | Biology. 5th edition. Elsevier Saunders, Philadelphia, 2014 | 14 | 2.00 | 28.00 |
| Practicals/Labs | | 14 | 2.00 | 28.00 |
| Self-study/Assessment | | 14 | 4.00 | 56.00 |
| Homeworks | | 4 | 5.00 | 20.00 |
| Projects | | 0 | 0.00 | 0.00 |
| Midterm Exams | | 0 | 0.00 | 0.00 |
| Field Studies | | 0 | 0.00 | 0.00 |
| Quiz | | 1 | 0.00 | 0.00 |
| Midterm exams | | 1 | 0.00 | 0.00 |
| Homework project | | 1 | 0.00 | 0.00 |
| Others | | 0 | 0.00 | 0.00 |
| Final Exam | | 1 | 20.00 | 20.00 |
| Final Exams | | 1 | 20.00 | 20.00 |
| Total | | 6 | 42.00 | 84.00 |
| Total Work Load | | | | 152.00 |
| Contribution of Term (Year) Learning Activities to Total Work Load/ 30 hr | | 50.00 | | 5.07 |
| ECTS Credit of the Course | | | | 5.00 |
| Contribution of Final Exam to Success Grade | | 50.00 | | 5.07 |
| Total | | 100.00 | | |
| Measurement and Evaluation Techniques Used in the Course | | Clasical exam. Microscopy exam | | |

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| 24 | ECTS / WORK LOAD TABLE | | | |
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| 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 |

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| 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 | | | |