| UROGENITAL SYSTEM |  |   |   |  |  |  |  |  |  |  |
|-------------------|--|---|---|--|--|--|--|--|--|--|
| 1                 | Course Title:  | UROGE   | NITAL SYSTEM  |  |  |  |  |  |  |  |
| 2                 | Course Code:   | TIP2006   |   |  |  |  |  |  |  |  |
| 3                 | Type of Course:  | Compuls   | sory  |  |  |  |  |  |  |  |
| 4                 | Level of Course:   | First Cycle   |   |  |  |  |  |  |  |  |
| 5                 | Year of Study:   | 2   |   |  |  |  |  |  |  |  |
| 6                 | Semester:  | 4   |   |  |  |  |  |  |  |  |
| 7                 | ECTS Credits Allocated:                                    | 4.50  |   |  |  |  |  |  |  |  |
| 8                 | Theoretical (hour/week):                                   | 3.00  |   |  |  |  |  |  |  |  |
| 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:  | Öğr.Gör. Tıp Fakültesi Öğrenci İşleri   |   |  |  |  |  |  |  |  |
| 15                | Course Lecturers:  | Prof. Dr. Erdoğan Şendemir, Prof. Dr. Zeynep Kahveci, Prof. Dr. İ.<br>Hakan Oygucu, Prof. Dr. Yeşim Özarda, Prof. Dr. Zehra Serdar,<br>Prof. Dr. Nevzat Kahveci, Prof. Dr. Özhan Eyigör, Doç. Dr. Bülent<br>Gören |   |  |  |  |  |  |  |  |
| 16                | Contact information of the Course<br>Coordinator:          | oeyigor@uludag.edu.tr<br>295 4065<br>U.Ü. Tıp Fak. Histoloji ve Embriyoloji AD.   |   |  |  |  |  |  |  |  |
| 17                | Website:   |   |   |  |  |  |  |  |  |  |
| 18                | Objective of the Course:                                   | The aim of the course is to teach the anatomical, histological,<br>physiological and biochemical properties of the urinary and genital<br>system organs.  |   |  |  |  |  |  |  |  |
| 19                | Contribution of the Course to<br>Professional Development: |   |   |  |  |  |  |  |  |  |
| 20                | Learning Outcomes:   |   |   |  |  |  |  |  |  |  |
|                   |  | 1   | To comprehend the anatomical properties and localizations of the urogenital system organs.                                |  |  |  |  |  |  |  |
|                   |  | 2   | To comprehend the physiological properties of the<br>urogenital system organs.  |  |  |  |  |  |  |  |
|                   |  | 3   | To comprehend the histological properties of the urogenital system organs.  |  |  |  |  |  |  |  |
|                   |  | 4   | To macroscopically identify the anatomical structures and their neighboring structures on cadavers and models.            |  |  |  |  |  |  |  |
|                   |  | 5   | To identify the normal histologic structure and cellular properties of the urogenital system organs under the microscope. |  |  |  |  |  |  |  |
|                   |  | 6   | To comprehend the biochemical properties of the electrolite-water balance and acid-base balance                           |  |  |  |  |  |  |  |
|                   |  | 7   | To understand the biochemical structure of the genital system hormones.   |  |  |  |  |  |  |  |
|                   |  | 8   | To comprehend the physiological functions of the genital system hormones.   |  |  |  |  |  |  |  |
|                   |  | 9   | To interpret the results of the disorders of normal cellular<br>and tissue structure of the urogenital system organs.     |  |  |  |  |  |  |  |
|                   |  | 10  |   |  |  |  |  |  |  |  |
| 21                | Course Content:  |   |   |  |  |  |  |  |  |  |

|              | Course Content:   |   |                                   |   |  |  |  |  |  |  |  |  |
|--------------|---|---|-----------------------------------|---|--|--|--|--|--|--|--|--|
| Week         | ek Theoretical Practice   |   |                                   |   |  |  |  |  |  |  |  |  |
| 1            | Anatomy of the kidneys, ureters, abdominal<br>wall structures (2 h)<br>Histology of the kidneys (1 h)   | Anatomy laboratory of the urinary system organs (2 h)   |                                   |   |  |  |  |  |  |  |  |  |
| 2            | Histology of the kidneys (3 h)  | A   | natomy laboratory of th           | ne urinary system o                     | rgans (2 h)                              |  |  |  |  |  |  |  |
| 3            | Physiology of the kidney functions, glomerular<br>filtration (1 h)<br>Regulation of the glomerular filtration and<br>renal blood circulation (2 h)              | Histology laboratory of the urinary system organs (2 h)   |                                   |   |  |  |  |  |  |  |  |  |
| 4            | Anatomy of the urinary vesicle and urethra (1<br>h)<br>Histology of the renal calyses, ureters, urinary<br>vesicle, urethra (1 h)<br>Na, K, CI metabolism (1 h) | Histology laboratory of the urinary system organs (2 h)   |                                   |   |  |  |  |  |  |  |  |  |
| 5            | Reabsorbsion and secretion at the kidney<br>tubules (2 h)<br>Concentrated or diluted urine production (1 h)   |   |                                   |   |  |  |  |  |  |  |  |  |
| 6            | Regulation of NA and K concentration,<br>micturition (2 h)Anatomy laboratory of the genital system organs (2 h)Physiopathology of the urinary system (1 h)      |   |                                   |   |  |  |  |  |  |  |  |  |
| 7<br>Activit | IRegulation of the acid-base balance (2 h)<br>res   | IA  | natomv laboratorv of th<br>Number | ne genital system of<br>Duration (hour) | raans (2 h)<br>Total Work<br>Load (hour) |  |  |  |  |  |  |  |
| Theore       | lical   |   | 14                                | 3.00                                    | 42.00                                    |  |  |  |  |  |  |  |
| Practica     | als/Labs  |   | 14                                | 2.00                                    | 28.00                                    |  |  |  |  |  |  |  |
| Self stu     | Disorders of the acid-base balance (2 h)  | h,  | 28                                | 1.00                                    | 28.00                                    |  |  |  |  |  |  |  |
| Homew        | vorks   |   | 0                                 | 0.00                                    | 0.00                                     |  |  |  |  |  |  |  |
| Project      | glands, penis (2 saat)  | h)  | 0                                 | 0.00                                    | 0.00                                     |  |  |  |  |  |  |  |
| Field S      | tudies  |   | 0                                 | 0.00                                    | 0.00                                     |  |  |  |  |  |  |  |
| Midtern      | n exams   |   | 1                                 | 14.00                                   | 14.00                                    |  |  |  |  |  |  |  |
| Others       |   |   | 0                                 | 0.00                                    | 0.00                                     |  |  |  |  |  |  |  |
| Final E      | প্রিনিস্ক্রিomy of the female genital system (1 h)  | ••,   | 1                                 | 18.00                                   | 18.00                                    |  |  |  |  |  |  |  |
| Total W      | /ork Load   |   |                                   |   | 144.00                                   |  |  |  |  |  |  |  |
| Total w      | Histology of the ovaries and ovarian tubes (1   | h'  | istology laboratory of th         | le lemale genital sy                    | 4.33                                     |  |  |  |  |  |  |  |
| ECTS (       | Credit of the Course  |   |                                   |   | 4.50                                     |  |  |  |  |  |  |  |
| 13           | Histology of the uterus, cervix and vagina (1<br>h)<br>Histology of the the mammary gland and<br>plasenta (1 h)<br>Female genital system hormones (1 h)         | Histology laboratory of the endocrine system organs (2 h)   |                                   |   |  |  |  |  |  |  |  |  |
| 14           | Female hormonal functions, pregnancy, lactation (3 h)   | tions, pregnancy, General repetition of the histology laboratory of the urogenital system organs (2 h)  |                                   |   |  |  |  |  |  |  |  |  |
| 22           | Textbooks, References and/or Other<br>Materials:  | Gray's Anatomy for Students. R.L. Drake, A.W. Vogl,<br>Adam W.M. Mitchell. Churchill Livingstone,2009.<br>Histology and Cell Biology: An Introduction to Pathology.<br>A.L. Kierszenbaum. Mosby, 2006.<br>Textbook of Medical Physiology. A.C.Guyton and J.E.Hall.<br>Saunders, 2005. |                                   |   |  |  |  |  |  |  |  |  |

| <b>23</b> Ass  | sesme  | ent |       |     |     |       |              |       |             |          |      |      |          |      |      |      |  |
|--|--|-----|-------|-----|-----|-------|--------------|-------|-------------|----------|------|------|----------|------|------|------|--|
| TERM LEARNING ACTIVITIES   |  |     |       |     |     | N     | IUMBE        | EWE   | WEIGHT      |          |      |      |          |      |      |      |  |
| Midterm Exam   |  |     |       |     |     | 1     |              | 40    | 40.00       |          |      |      |          |      |      |      |  |
| Quiz   |  |     |       |     |     | 0     | )            | 0.0   | 0.00        |          |      |      |          |      |      |      |  |
| Home work-project  |  |     |       |     |     | 0     |              | 0.0   | 0.00        |          |      |      |          |      |      |      |  |
| Final Exam   |  |     |       |     |     | 1     |              | 60    | 60.00       |          |      |      |          |      |      |      |  |
| Total  |  |     |       |     |     | 2     |              | 10    | 100.00      |          |      |      |          |      |      |      |  |
| Contribution of Term (Year) Learning Activities to Success Grade |  |     |       |     |     |       | to           | 40.00 |             |          |      |      |          |      |      |      |  |
| Contribution of Final Exam to Success Grade                      |  |     |       |     |     |       | 60.00        |       |             |          |      |      |          |      |      |      |  |
| Total  |  |     |       |     |     |       |              | 10    | 100.00      |          |      |      |          |      |      |      |  |
| Measurement and Evaluation Techniques Use Course                 |  |     |       |     |     | s Use | d in th      | าย    |             |          |      |      |          |      |      |      |  |
| 24 EC  | TS /   | WO  | RK L  | OAD | TAB | LE    |              |       |             |          |      |      |          |      |      |      |  |
| 25   | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME<br>QUALIFICATIONS |     |       |     |     |       |              |       |             |          |      |      |          |      |      |      |  |
|  | PQ1  | PQ2 | PQ3   | PQ4 | PQ5 | PQ6   | PQ7          | PQ8   | PQ9         | PQ1<br>0 | PQ11 | PQ12 | PQ1<br>3 | PQ14 | PQ15 | PQ16 |  |
| ÖK1  | 5  | 0   | 0     | 2   | 0   | 0     | 1            | 0     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK2  | 5  | 2   | 0     | 0   | 0   | 0     | 0            | 1     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK3  | 5  | 0   | 0     | 0   | 0   | 0     | 0            | 0     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK4  | 5  | 0   | 0     | 2   | 0   | 0     | 1            | 0     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK5  | 5  | 0   | 0     | 0   | 0   | 1     | 0            | 0     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK6  | 5  | 2   | 0     | 0   | 1   | 2     | 0            | 2     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK7  | 5  | 0   | 0     | 0   | 1   | 2     | 0            | 1     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK8  | 5  | 0   | 0     | 0   | 1   | 1     | 0            | 1     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| ÖK9  | 5  | 4   | 0     | 0   | 0   | 0     | 0            | 0     | 0           | 0        | 0    | 0    | 0        | 0    | 0    | 0    |  |
| LO: Learning Objectives PQ: Program Qualifications               |  |     |       |     |     |       |              |       |             |          |      |      |          |      |      |      |  |
| Contrib 1 very low<br>ution<br>Level:                            |  | :   | 2 low |     | 3   | Medi  | edium 4 High |       | 5 Very High |          |      |      |          |      |      |      |  |