GAZIANTEP ISLAMIC SCIENCE AND TECHNOLOGY UNIVERSITY

GRADUATE EDUCATION INSTITUTE

COURSE CONTENT FORM

	COURSE INFORMATION					
Curriculum year	**Course name**	*Code*	*Semester*	*T+U Clock*	*Credit*	*ECTS*
	Uro-Genital System Histology and Development		I or II	3+2	4	6

Language of the Course	Turkish
Course Level	Master's Degree
Department/Program	Histology-Embryology
Education Type	Formal
Type of Course	Optional
Prerequisite Courses	No
Department/Program coordinator	Prof. Dr. Mehmet Yüncü
Course Supervisor(s)	Asst. Prof. Ayşegül Burçin Yıldırım
Course Assistants	Asst. Prof. Çiğdem Karaca Asst. Prof. Mustafa Öztatlıcı
The aim of lesson	Learning the histological structures of tissues and organs forming the urinary and genital systems. Understanding the embryological development of the urinary and genital systems
Course Content	urinary system; kidneys, ureters, bladder and urethra histology. female genital system; ovary, tuba uterina, uterus, vagina, external genitalia and breast histology. male genital system; histology of testis, epididymis, ductus deferens, prostate, seminal vesicle, bulbourethral gland and penis. Development and anomalies of the urinary system. Genital system development and anomalies.
Teaching-Learning Methods and Techniques Used in the Course	Lecture (Presentation) method, student lecture presentations, Discussion method, question and answer, laboratory method
Course Internship Status	No

Course Learning Outcomes
1. General structure of the urinary system. General structure and histological structure of kidneys, Histological structure of renal cortex and medulla, Kidney functions, urine production, Ureters, bladder and urethra histology
2. General structure of the genital system. General structure of female genital system, ovaries, tuba uterina, uterus, vagina, external genital organs, structure and histology of breasts. General structure of the male genital system, testicles, epididymis, ductus deferens, prostate, seminal vesicle, bulbourethral glands and penis
3. Can explain the pronephrosis, mesonephros and metanephrosis and express their development Express the development of renal excretory ducts and tubules. It refers to the development of permanent kidney. It expresses the position changes of the kidney. Explain the development of the urinary bladder and urethra.
4.Expresses the origin and development of primary gonads. Explain primordial germ cells. It refers to the undifferentiated rung of the gonads.
5.Explains the development of testicles. It refers to the development of the ovaries. Explain the development of genital tracts in male and female. Explain the development of external genitalia in male and female.

COURSE FLOW	
Week	**Topics**
1	General structure of the genital system
2	Ovaries and ovarian cycle, Tuba uterina and uterus
3	vagina, external genitalia, breast
4	Testes and epididymis
5	Ductus deferens, prostate, vesiculosa seminalis, Penis histology
6	The structure of the kidneys
7	Ureters, bladder and urethra
8	pronephros mesonephros metanephros Development of the permanent kidney
9	Development of renal tubules, collecting tubules and excretory ducts, Bladder and urethra
10	Development of primary gonads, Differentiation of gonads, Development of testicles
11	In primordial germ cells male germ cell differentiation
12	Development of male and female genital tracts
13	Endocrine system anomalies
14	Final examination

RESOURCES

- Ross MH, Pawlina W: Histology, A Text and Atlas. Lippincott Williams and Wilkins. 2011
- Junqueira LC: Basic Histology. McGraw-Hill Medical. 2013
- Mills SE: Histology for Pathologists. Lippincott Williams and Wilkins. 2012
- Fawcett DW: A Textbook of Histology. CRC Press. 1998
- Kierszenbaum A: Histology and Cell Biology. Elsevier-Mosby. 2011

ASSESSMENT SYSTEM		
SEMESTER STUDIES	**number**	**PERCENTAGE OF CONTRIBUTION**
Midterm	1	40%
Quiz		
Homework		
Continue		
Seminar		
Application	1	10%
Course Specific Internship (if applicable)		
Project		
Workshop		
Presentation		
Semester final exam	1	50%
Total	3	100%
Contribution of Midterm Studies to Success Grade		
The Contribution of the Final Exam to the Success Grade		
Total		

ECTS / WORKLOAD TABLE			
Activity	**Number**	**Duration(Hour)**	**TotalWorkload(Hours)**

Course Duration (Including the exam week: 15x total course hours)	*15*	*3*	*45*
Out of Class Study Time (Pre-study, reinforcement)	*15*	*5*	*75*
Homework			
Seminar			
Presentation			
Application	*15*	*2*	*30*
Lab	*15*	*2*	*30*
Course Specific Internship (if applicable)			
Project			
Workshop			
Other (……..)			
Midterm	*1*	*1*	*1*
Quiz			
Semester final exam	*1*	*1*	*1*
Total Workload			
Total Workload / 30(s)			*182*
ECTS Credits of the Course			*6*

ASSOCIATION OF COURSE LEARNING OUTCOMES WITH PROGRAM OUTCOMES

No.	Program Learning Outcomes
1	Have general knowledge about the human body
2	Have detailed information about the histological structures of human tissues and organs.
3	Learns histological and histochemical techniques
4	Have detailed information about general human embryology.
5	Learn to use research lab tools and materials
6	Improves scientific article reading and evaluation proficiency
7	Can make histology laboratory applications to undergraduate students
8	Gains a general vision about basic medical sciences
9	Provides the necessary knowledge to participate in the doctoral program
10	Provides the competence to be a researcher in multidisciplinary research

Learning Outcomes	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
LO1.	5	4	2	3	3	3	5	5	5	4
LO2.	5	4	2	3	3	3	5	5	5	4
LO3.	5	4	2	3	3	3	5	5	5	4
LO4.	5	4	2	5	3	3	3	5	5	5
LO5.	5	4	2	5	3	3	5	5	5	5
LO: Learning Outcomes OP: Program Outcomes										
Contribution Level	1. Very Low		2. Low		3. Medium		4. High		5.Very High	