



GAZIANTEP ISLAMIC SCIENCE AND TECHNOLOGY UNIVERSITY
GRADUATE EDUCATION INSTITUTE
COURSE CONTENT FORM

	COURSE INFORMATION					
Curriculum year	Course name	Code	Semester	T+P Hour	Credit	ECTS
	General Human Embryology		II	3+0	3	6

Language of the Course	Turkish
Level of the Course	Master's Degree
Department/Program	Histology-Embryology
Education Type	Formal
Type of Course	Compulsory courses
Prerequisite Courses	No
Department/Program coordinator	Prof. Dr. Mehmet Yüncü
Course Supervisor(s)	Asst. Prof. Üyesi Mustafa Öztatlıcı
Course Assistants	Asst. Prof. Çiğdem Karaca Asst. Prof. Ayşegül Burçin Yıldırım
Course Objectives	Teaching the basic concepts of general human embryology such as spermatogenesis, oogenesis, ovulation, fertilization, early embryo development, non-embryonic formations.
Course Content	Explanation of embryological terms; histological structure of ovum and spermium; spermatocytogenesis and oogenesis; ovarian and uterine cycle; ovulation, fertilization, segmentation, implantation, gastrulation; differentiation of embryo and embryonal leaves; bilaminar germ disc, trilaminar germ disc; embryonal and fetal periods; prenatal diagnosis methods, non-embryonic formations, placenta, umbilical cord, amniotic membrane and fluid.
Teaching-Learning Methods and Techniques used in the Course	Lecture (Presentation) method, student lecture presentations, Discussing scientific articles, Homeworks.
Course Internship Status	No

Course Learning Outcomes
1. Explains the histological structures of male and female germ cells. Comprehends spermatogenesis and oogenesis processes, ovulation and fertilization processes.
2. Learns the early developmental stages of the fertilized zygote; learns segmentation, implantation, gastrulation.
3. Learns the differentiation of embryo and embryonal leaves, formation and development of bilaminar and trilaminar germ discs. Explains the embryonal period covers the first eight weeks.
4. Learns non-embryo formations, placenta, umbilical cord, amniotic membrane and fluid, chorion membrane and fluid. Gains knowledge about IVF practices and IVF laboratory techniques.

COURSE FLOW	
Week	Topics
1	Structures of oocyte and spermatozoa
2	Spermatogenesis
3	Ovarian and uterine cycle
4	Oogenesis and Ovulation
5	Ovulation and Fertilization
6	Segmentation, implantation
7	Midterm exam
8	Gastrulation, Embryonic disc
9	Embryonic leaves
10	Embryonic period
11	Fetal period
12	Prenatal diagnostic methods
13	Non-embryonic formations
14	IVF applications and IVF laboratory techniques
15	Semester final exam

RESOURCES
<ul style="list-style-type: none"> - Moore K.L, Persaud T.V.N, Torchia M.G: The Developing Human. Elsevier-Saunders, 2011 - Sadler T.W: Langman's Medical Embryology. Lippincott Williams and Wilkins. 2011 - Schoenwolf G.C: Larsen's Human Embryology. Churchill Livingstone. 2014 - Ross M.H, Pawlina W: Histology, A Text and Atlas. Lippincott Williams and Wilkins. 2011 - Junqueira L.C: Basic Histology. McGraw-Hill Medical. 2013 - YÜNCÜ M. Histobul. Çukurova Nobel Tıp Kitapevi, 2014

ASSESSMENT SYSTEM		
SEMESTER STUDIES	number	PERCENTAGE OF CONTRIBUTION
Midterm	1	%40
Quiz		
Homework	1	%10
Attending the course		
Seminar		
Practice		
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	Time (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 15x total course hours)	15	3	45
Out of Class Study Time (Pre-study, reinforcement)	15	7	105

Homework	1	3	3
Seminar			
Presentation	3	4	12
Practices			
Lab	2	5	10
Course Specific Internship (if applicable)			
Project			
Workshop			
Other (.....)			
Midterm exam	1	1	1
Quiz			
Semester final exam	1	1	1
Total Workload			177
Total Workload / 30(s)			
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	5	2	5	3	4	4	5	5	5
LO2.	5	5	2	5	3	4	4	5	5	5
LO3.	5	5	2	5	3	4	5	5	5	5
LO4.	5	5	2	5	5	5	5	5	5	5
LO: Learning Outcomes PO: Program Outcomes										
Contribution Level	1. Very Low		2. Low		3. Medium		4. High		5. Very High	