



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
	Assisted Reproductive Techniques		I	1+0	1	2

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. Çiğdem Karaca
Course Assistants	Asst. Prof. Ayşegül Burçin Yıldırım Asst. Prof. Mustafa Öztatlıcı
Course Objectives	Students taking the course should have knowledge about assisted reproductive techniques.
Course Content	Causes of infertility, semen analysis, spermiogram evaluation, ovulation induction, oocyte aspiration, intrauterine insemination, conventional in vitro fertilization, sperm injections into the oocyte with micromanipulation, ethics and complications in assisted reproductive techniques, oocyte and embryo culture environment, embryo transfer.
Teaching-Learning Methods and Techniques Used in the Course	Face-to-face education, homework, presentation-seminar, quizzes, midterm exams, Laboratory, Research
Course Internship Status	No

Course Learning Outcomes
1. To have general information about infertility
2. Will be able to learn and explain the terms of ethics and complications in assisted reproductive techniques, oocyte and embryo culture environment, embryo transfer.

3. Will be able to do semen analysis, spermiogram evaluation
4. Will be able to explain ovulation induction, oocyte aspiration, intrauterine insemination
5. Will be able to explain conventional in vitro fertilization, micromanipulation and sperm injection into the oocyte.

COURSE FLOW	
Week	Topics
1	Causes of infertility (Female-Male origin)
2	Semen analysis
3	Spermiogram evaluation
4	ovulation induction
5	Oocyte aspiration
6	Intrauterine insemination
7	Conventional in vitro fertilization
8	Article Hour - Seminar
9	Sperm injections into the oocyte with micromanipulation,
10	Ethics in assisted reproductive techniques
11	Complications in assisted reproductive techniques
12	Oocyte and embryo culture medium
13	Embryo transfer
14	Evaluation of sperm and oocyte preparations (Laboratory)
15	general evaluation

RESOURCES
<p>- Ross M.H, Pawlina W: Histology, A Text and Atlas. Lippincott Williams and Wilkins. 2011</p> <p>-Yüncü M: Histobul. Çukurova Nobel Medical bookstore, 2014</p> <p>-Eşrefoğlu Mukaddes, General Embriyology, Ema Medical bookstore,2021</p>

ASSESSMENT SYSTEM		
SEMESTER STUDIES	COUNT	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 CHART			
Activity	COUNTS	Time (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 15x total course hours)	15	1	15
Out of Class Study Time (Pre-study, reinforcement)	15	1	15
Homework			
Seminar	2	10	20
Presentation	2	5	10
Application			
laboratuvar			

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)			62
ECTS Credits of the Course			2

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.	4	4	2	4	2	2	3	5	5	5
LO2.	4	5	2	5	4	4	5	5	5	5
LO3.	4	5	5	5	3	4	5	5	5	5
LO4.	4	5	5	5	3	4	5	5	5	5
LO5.	4	5	5	5	3	4	5	5	5	5
LO: Learning Outcomes PO: Program Outcomes										
Contribution Level	1. Very low		2. Low		3. moderate		4. High		5. Very High	