



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Reproductive Biology and Assisted Reproduction Techniques							
Course Code		THE523		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	6	Workload	150 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		learning the Development of oocyte and sperm, structural properties, fertilization and laboratory methods used in assisted reproduction							
Course Content		learning the assisted reproductive techniques and gametogenesis							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Assoc. Prof. Erkan GÜMÜŞ							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Langman Medikal Embriyoloji
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Week	Weekly Detailed Course Contents	
1	Theoretical	Female genital system and oogenesis
2	Theoretical	Male genital system and spermatogenesis
3	Theoretical	Fertilization, cleavage and implantation
4	Theoretical	Quality control in IVF laboratory
5	Theoretical	Infertility and its causes
6	Theoretical	Tests used in male infertility and sperm preparation protocols I
7	Theoretical	Tests used in male infertility and sperm preparation protocols II
8	Intermediate Exam	midterm exam
9	Theoretical	Oocyte collection word and oocyte morphology
10	Theoretical	Classical in vitro fertilization
11	Theoretical	Embryo selection criteria
12	Theoretical	Embryo transfer
13	Theoretical	Factors affecting implantation
14	Theoretical	Cryopreservation and micromanulation techniques
15	Theoretical	artical discussion
16	Final Exam	final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Assignment	10	0	3	30
Reading	8	0	1	8
Individual Work	14	0	3	42
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	To be able to explain gametogenesis
2	To know and apply the quality control in IVF laboratory
3	To be able to define and apply the tests used in male infertility and sperm preparation protocols



4	To be able to define and apply oocyte collection procedure and oocyte morphology imaging techniques
5	Defining embryo selection criteria
6	To explain the factors affecting embryo transfer and implantation

**Programme Outcomes** (*Histology and Embryology (Medical) Master's Without Thesis*)

1	To have detailed information about cell structure and function at microscopic level
2	To have theoretical and practical knowledge about experimental methods used in histology
3	To know the ethical rules for publishing and presenting a scientific study
4	To have sufficient knowledge about the laboratory methods used in fertilization and assisted reproduction
5	to have enough knowledge about the general characteristics of human embryology

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P1	4	3	4	3	4	3
P2	3	4	3	4	3	4
P3	3	4	3	4	4	4
P4	3	4	4	3	4	4
P5	4	4	3	4	3	4

