

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΕΘ.Α.Α.Ε.

ΕΘΝΙΚΗ ΑΡΧΗ ΑΝΩΤΑΤΑΤΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

HELLENIC REPUBLIC

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# **University of West Attica**

School of Health and Care Sciences

**Department of Biomedical Sciences and Midwifery** 

# **Undergraduate Studies**

"Applications of Biomedical Technology in Infertility - Male and Female Factor"

Course Outline

WOMAN'S CLINICAL AND LABORATORY INVESTIGATION





ATHENS 2023

# COURSE OUTLINE

## (1) GENERAL

SCHOOL	School of Health and Care Sciences				
ACADEMIC UNIT	Biomedi	Biomedical Sciences and Midwifery			
LEVEL OF STUDIES	Undergraduate Studies				
COURSE CODE	M2. 3 SEMESTER Second				
COURSE TITLE	Woman's Clinical and Laboratory Investigation				
<b>INDEPENDENT TEACHING ACTIV</b> if credits are awarded for separate components of the laboratory exercises, etc. If the credits are awarded fo course, give the weekly teaching hours and the total cr	he course, e.g. lectures, for the whole of the		WEEKLY TEACHIN GHOURS	CREDITS	
Lectures, laboratory training	2 8		8		
Add rows if necessary. The organization of teaching ar methods used are described in detail at (d).	nd the teaching				
COURSE TYPE General background, special background, specialized general knowledge, skills development		alization			
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek, English				
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES				
COURSE WEBSITE (URL)	https://eclass.uniwa.gr/				

## (2) LEARNING OUTCOMES

#### Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

The purpose of the course is to acquaint the students with the basic laboratory and clinical methods of identifying and locating pathological conditions that concern female fertility and prevent spontaneous conception.

The students after the end of the course:

- 1. They will have developed skills in taking a correct medical history.
- 2. They will have understood the methodology of laboratory control of female fertility
- 3. They will have understood the methodology of the analysis of control examinations.
- 4. They will have the ability to participate in the scientific team for decision-making regarding the selection of the appropriate method/technique to treat infertility

General Competences	
Taking into consideration the general competences that the degr	ee-holder must acquire (as these appear in the Diploma
Supplement and appear below), at which of the following does th	ne course aim?
Search for, analysis and synthesis of data and information, with the use of the necessary technology Adapting to new situations Decision-making Working independently Team work Working in an international environment Working in an interdisciplinary environment Production of new research ideas	Project planning and management Respect for difference and multiculturalism Respect for the natural environment Showing social, professional and ethical responsibility and sensitivity to gender issues Criticism and self-criticism Production of free, creative and inductive thinking  Others
• Search, analysis and synthesis of data and info	prmation, using the necessary technologies
Teamwork	
Work in an interdisciplinary environment	
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- Work in an international environment
- Generating new research ideas
- Decision making
- Promotion of free, creative and inductive thinking

## (3) SYLLABUS

- Medical History taking Gynecological examination
- Methods of determining fertile days and ovulation (Knaus-Oqino calendar method, basal body temperature measurement, ovulation test kit, cervical mucus test, etc.)
- Health's screening and status (cardiovascular screening, blood and biochemical tests, thyroid hormone testing, diet/exercise and fertility etc.)
- Fallopian tube diagnostic tests (serum test for chlamydia, hysterosalpingography, laparoscopic test with fallopian tube dye)
- Ovarian factor diagnostic tests (ovulation check, serum progesterone measurement, hormone test lab values, ovulation confirmation by u/s)
- Ultrasound investigation of morphological or functional lesions of the female reproductive system (endometrial adhesions, polyps, fibroids, uterine malformations, congenital anomalies, etc.)
- Sexual health & severe inflammations of the female reproductive system (e.g. pelvic inflammatory disease) Endometriosis
- Induction and enhancement of ovulation-enhancement of luteal phase
- Ovarian stimulation protocols natural cycle
- Serious complications/risks of assisted reproductive techniques avoid ovarian hyperstimulation
- Immune factor repeated (every six months) miscarriages

- Low ovarian reserve egg borrowing
- Aged 40 and pregnancy ovarian tissue cryopreservation

# (4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Face to face, laboratory training		
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	<ul> <li>Learning prosses support through electronic platforms: e class, Microsoft Teams, Skype Business</li> <li>Teaching by videos</li> </ul>		
<b>TEACHING METHODS</b> The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc. The student's study hours for each learning activity are given as well as the hours of non- directed study according to the principles of the ECTS	Activity	Semester Workload	
	Lectures by audiovisual media	54	
	Laboratory training in small groups of students 20-25	14	
	Interactive teaching	29	
	Literature study and analysis	28	
	Study presentation	28	
	Writing of thesis	47	
	Independed study	42	
	Course total	200	
STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure	1. Written final exam (60%) including:		
Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer	Multiple Choice Questions		
questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation,	• Short Answer Questions,		
laboratory work, clinical examination of patient, art interpretation, other	Problem Solving		
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	2. Presentation of Individual or Group Work (40%)		

### (5) ATTACHED BIBLIOGRAPHY

## Suggested Bibliography:

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- Χρυσικόπουλος Αθ.: «Υπογονιμότητα Στείρωση Προβλήματα Αναπαραγωγής» ΕΚΔΟΣΕΙΣ ΠΑΣΧΑΛΙΔΗΣ, 2002
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- Smith P. Roger, Netter H. Frank: «Netter's Μαιευτική και Γυναικολογία», 2η έκδοση. BROKEN HILL PUBLISHERS LTD, 2019

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- DECHERNEY Η ALLAN, NATHAN LAUREN: «ΣΥΓΧΡΟΝΗ ΔΙΑΓΝΩΣΗ & ΘΕΡΑΠΕΙΑ ΣΤΗ ΜΑΙΕΥΤΙΚΗ ΓΥΝΑΙΚΟΛΟΓΙΑ» ΕΚΔΟΣΕΙΣ ΔΗΜΗΤΡΙΟΣ Α. ΣΙΩΚΗΣ & ΣΙΑ ΕΕ, 2005