



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

HELLENIC REPUBLIC

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H.A.H.E.

ΕΘΝΙΚΗ ΑΡΧΗ ΑΝΩΤΑΤΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

HELLENIC AUTHORITY FOR HIGHER EDUCATION

**University of West Attica**

**School of Health and Care Sciences**

**Department of Biomedical Sciences and Midwifery  
Postgraduate Studies**

**Applications of Biomedical Technology in Infertility – Male and Female  
Factor**

Course Outline

**Internship**



ATHENS 2023

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	of HEALTH and CARE SCIENCES		
<b>ACADEMIC UNIT</b>	BIOMEDICAL SCIENCES AND MIDWIFERY		
<b>LEVEL OF STUDIES</b>	POST GRADUATE		
<b>COURSE CODE</b>	MYE 3.1.2	<b>SEMESTER</b>	3
<b>COURSE TITLE</b>	INTERNSHIP		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>If credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>
Internship		40	40
<i>Add rows if necessary. The organization of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialized general knowledge, skills development</i>	Specialized		
<b>PREREQUISITE COURSES:</b>	-		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	-		
<b>COURSE WEBSITE (URL)</b>	<a href="https://moodle.uniwa.gr">https://moodle.uniwa.gr</a>		

### 2. LEARNING OUTCOMES

<p><b>Learning outcomes</b></p> <p><i>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.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul>
<p>After the end of the course, the student will be able to work in laboratories and clinics that specialize in the treatment and prevention of human infertility. For this purpose, the student will be able to do an internship at one of the following institutions:</p> <ol style="list-style-type: none"> <li>1. hospitals or primary health laboratories that perform analyzes on human semen.</li> <li>2. imaging departments of specialized clinics for the diagnosis or monitoring of diseases in the male or female genital organs,</li> <li>3. human gamete cryopreservation banks,</li> <li>4. genetics laboratories that carry out tests for prenatal testing,</li> <li>5. embryological laboratories of public or private IVF centers.</li> </ol> <p>In these laboratories the trainers will:</p>

- obtain significant laboratory experience in a number of analyzes so they will be quite sufficient to work in a similar laboratory of the same or another institution,
- gain significant experience in modern analytical technology which is impossible to be obtain in university laboratory courses,
- be familiar with the laboratory quality control procedures and the international standards concerning the operation of relative laboratories,
- be familiar with the use of personal information (GDPR) and the management of a biomedical laboratory of the specific object,
- get to know the operation of assisted reproduction clinics.

### **General Competences**

*Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the 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 for, analysis and synthesis of data and information, with the use of the necessary technology.
- Decision-making.
- Working independently.
- Team Work.
- Showing social, professional and ethical responsibility and sensitivity to gender issues
- Autonomous work.
- Promotion of free, creative and inductive thinking.
- Generating new research ideas.
- Adaptation to new situations.
- Project planning and management.
- Respect for difference and multiculturalism.

### **3. SYLLABUS**

1. Two-month internship in laboratories of primary health care or hospitals in the public or private sector in laboratory tests related to the diagnosis or treatment of male diseases affecting the couple's fertility.

2. The internship will be done with an employment contract, with occupational risk insurance, without excluding any granting from the internship company. The exercise will be daily for eight hours, 40 hours a week.

### **4. TEACHING and LEARNING METHODS - EVALUATION**

<b>DELIVERY</b> <i>Face-to-face, Distance learning, etc.</i>	Internship									
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	Laboratory education									
<b>TEACHING METHODS</b> <i>The manner and methods of teaching are described in detail.</i> <i>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.</i>  <i>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</i>	<table border="1"> <thead> <tr> <th data-bbox="695 387 1086 443"><b>Activity</b></th> <th data-bbox="1093 387 1364 443"><b>Semester workload</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="695 445 1086 479">Internship</td> <td data-bbox="1093 445 1364 479">400</td> </tr> <tr> <td data-bbox="695 481 1086 515">Presentation of laboratory work</td> <td data-bbox="1093 481 1364 515">50</td> </tr> <tr> <td data-bbox="695 517 1086 551">Course total</td> <td data-bbox="1093 517 1364 551">450</td> </tr> </tbody> </table>		<b>Activity</b>	<b>Semester workload</b>	Internship	400	Presentation of laboratory work	50	Course total	450
<b>Activity</b>	<b>Semester workload</b>									
Internship	400									
Presentation of laboratory work	50									
Course total	450									
<b>STUDENT PERFORMANCE EVALUATION</b> <i>Description of the evaluation procedure</i> <i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	The evaluation of the trainers will be divided in: 50%: evaluation from supervisor of the internship provider 50%: evaluation from the supervisor of UniWa.									

## 5. ATTACHED BIBLIOGRAPHY

<ol style="list-style-type: none"> <li>1. WHO laboratory manual for the examination and processing of human semen, Sixth edition, 2021</li> <li>2. Mortimer D. Laboratory standards in routine clinical andrology, 2009</li> <li>3. Rajasingam S. Jeyendran, Interpretation of Semen Analysis Results: A Practical Guide 1st Edition, 2000</li> <li>4. Garrido N, Rivera R. Practical Guide to Sperm Analysis: Basic Andrology in Reproductive Medicine 1st Edition, 2017</li> </ol>
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