**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences | | | | |
| **ACADEMIC UNIT** | Faculty of Medicine | | | | |
| **LEVEL OF STUDIES** | Undergraduate | | | | |
| **COURSE CODE** | IAE 805 | **SEMESTER** | | 8th | |
| **COURSE TITLE** | Reproductive Endocrinology and Infertility | | | | |
| **INDEPENDENT TEACHING ACTIVITIES** *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* | | | **WEEKLY TEACHING HOURS** | | **CREDITS** |
|  | | | 2 | | 2 |
|  | | |  | |  |
|  | | |  | |  |
| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (4).* | | |  | |  |
| **COURSE TYPE**  *general background,  special background, specialised general knowledge, skills development* | Specialized Background - Specialization | | | | |
| **PREREQUISITE COURSES:** |  | | | | |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek | | | | |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | YES | | | | |
| **COURSE WEBSITE (URL)** | https://ecourse.uoi.gr/enrol/index.php?id=1865 | | | | |

1. **LEARNING OUTCOMES**

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| **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 course is a specialization in Obstetrics/Gynecology, combining case analyses of infertility. By the end of the course, students will be equipped to understand, diagnose, and treat infertility. They will acquire knowledge and skills to explore the causes of infertility and propose appropriate clinical interventions. | |
| **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…*  *…….* |
| General Skills Developed: - Search, analyze, and synthesize data using technology - Decision-making - Independent and teamwork - Developing new research ideas - Respect for diversity, multiculturalism, and the natural environment - Professional and ethical responsibility with gender sensitivity - Critical thinking and creativity | |

1. **SYLLABUS**

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| 1. Anatomy of the Reproductive System:  a. Female  b. Male 2. Gender Disorders and Determination 3. Reproductive Physiology:  a. Ovarian Cycle  b. Steroidogenesis 4. Male Infertility 5. Female Infertility 6. Polycystic Ovary Syndrome 7. Endometriosis, Adenomyosis, Hydrosalpinx, and Infertility 8. Assisted Reproductive Techniques:  a. Gamete Manipulation  b. Preimplantation Embryonic Development  c. Genetic Investigation 9. Ovulation Induction 10. Fertility Preservation and Cancer 11. Premature Ovarian Failure: Investigation and Treatment 12. Menopause and Aging 13. Implantation Failure 14. Miscarriages in Assisted Reproduction 15. Ovulation Induction in Experimental Models |

1. **TEACHING and LEARNING METHODS - EVALUATION**

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| --- | --- |
| **DELIVERY** *Face-to-face, Distance learning, etc.* | Face-to-face |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Computer-assisted lectures and bibliographic research |
| **TEACHING METHODS**  *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*** | ***Workload of each students group*** | | Lectures | 26 hours | | Clinical practice | 10 hours | | Data analysis | 20 hours | | Deliver independently a narrative review | 20 hours | |  |  | |  |  | |  |  | | Total hours | 76 hours | |
| **STUDENT PERFORMANCE EVALUATION**  *Description of the evaluation procedure*  *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*  *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.* | Oral examinations |

1. **ATTACHED BIBLIOGRAPHY**

*Teaching - study material*

Infertility in Practice by A.H. Balen, H.S. Jacobs  
- Reproductive Endocrinology by Yen & Jaffe  
- Clinical Endocrinology & Infertility by Leon Speroff (8th Edition)