**COURSE OUTLINE**

1. **GENERAL**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SCHOOL** | School of Health Sciences | | | | |
| **ACADEMIC UNIT** | Faculty of Medicine | | | | |
| **LEVEL OF STUDIES** | Undergraduate | | | | |
| **COURSE CODE** | ΙΑΕ812 | **SEMESTER** | | **7th** | |
| **COURSE TITLE** | **ANDROLOGY** | | | | |
| **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* | *general background,  special background, specialised general knowledge, skills development* | | | | |
| **PREREQUISITE COURSES:** | No | | | | |
| **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=3180 | | | | |

1. **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* | |
| After completing their training in Andrology and studying the recommended scientific textbooks, students acquire theoretical knowledge of all pathophysiologies related to Male Infertility, Sexual Medicine, and Male Endocrinology. Additionally, special emphasis is placed on the techniques and clinical applications of Assisted Reproduction. Ethical issues concerning the treatment of Male Infertility, such as inherited infertility and gender selection, are thoroughly discussed with the students.  Furthermore, in the field of Sexual Medicine, particular attention is given to the diagnosis and management of Erectile Dysfunction, Premature Ejaculation, and Sexual Variations, including homosexuality, narcissism, and increased or decreased sexual desire. Significant emphasis is placed on educating and raising public awareness about sexually transmitted diseases. | |
| **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…*  *…….* |
| Upon completing their training and study in the field of Andrology, the student will be prepared to participate in diagnostic and therapeutic decision-making in the areas of Male Endocrinology, Sexual Medicine, and Male Infertility. | |

1. **SYLLABUS**

|  |
| --- |
| 1. Spermatogenesis and sperm maturation in the epididymis 2. Function of male accessory reproductive glands 3. Treatment of male infertility with in vitro fertilization 4. Pharmacological treatment of male infertility 5. Surgical treatment of male infertility 6. Male contraception 7. Sexual dysfunction in couples – diagnosis 8. Sexual dysfunction in couples – treatment 9. Semen analysis 10. Immunologically favorable conditions of the testes 11. Microsurgery of the male reproductive system 12. Sexual variations in men 13. Late-onset hypogonadism in men 14. Inflammations of the male reproductive system and fertility 15. Genetics of male infertility 16. Premature ejaculation |

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

|  |  |
| --- | --- |
| **DELIVERY** *Face-to-face, Distance learning, etc.* | Lecture room |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Presentation of videos featuring surgical procedures on the penis, with particular emphasis on Peyronie's disease, penile lengthening, and reconstructive surgery for the treatment of penile injuries. Additionally, videos are presented to describe techniques of assisted reproduction. Students gain an understanding of the mathematical analysis of images and films that describe and depict the movement of sperm cells. |
| **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 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | Course summary | ***26*** | |
| **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.* |  |

1. **ATTACHED BIBLIOGRAPHY**

*Teaching - study material*

1) Surgery of Male Infertility 1st Edition

by Marc Goldstein (Editor)

Hardcover: 328 pages

Publisher: Saunders; 1 edition (January 15, 1995)

Language: English

ISBN-10: 0721666930

ISBN-13: 978-0721666938