**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences |
| **ACADEMIC UNIT** | Faculty of Medicine |
| **LEVEL OF STUDIES** | UNDERGRADUATE |
| **COURSE CODE** | **ΙΑΕ 712** | **SEMESTER** | **7th** |
| **COURSE TITLE** | LABORATORY ENDOCRINOLOGY |
| **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** |
| **LECTURES – GROUP DISCUSSIONS – STUDENT PRESENTATIONS** | **2** |  |
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| *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* | SPECIAL BACKGROUMD |
| **PREREQUISITE COURSES:** | - |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | GREEK |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | NO |
| **COURSE WEBSITE (URL)** | https://ecourse.uoi.gr/enrol/index.php?id=3401 |

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*
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| Laboratory Endocrinology has an important and expanded role in the clinical practice of medicine. It includes a wide spectrum of imaging techniques of the endocrine glands, as well as hormonal assays and provocative tests. Moreover it comprises the use of several biochemical markers. The purpose of the course is to provide the knowledge of the modern laboratory techniques in the diagnosis of endocrine and metabolic diseases. Moreover another purpose is the coupling of the laboratory techniques with the clinical assessment for the best diagnostic and therapeutic approach of the patient with endocrine disease.  |
| **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, using the necessary technologies-Independent work-Team work- Promoting free, creative and inductive thinking- Respect for diversity-Production of new research ideas  |

1. **SYLLABUS**

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| **Lectures**-Imaging of the hypothalamic-pituitary region-Imaging of the thyroid and parathyroid glands-Imaging of the adrenals-Imaging of the ovaries and the testis-Body composition-Hormonal assays-Provocative tests-Specific biochemical markers of endocrine diseases-Pros and cons of each laboratory method-Clinical and laboratory assessment of the patient with endocrine disease (case studies) |

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

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| **DELIVERY***Face-to-face, Distance learning, etc.* | The course is given in the form of lectures in the amphitheatre for 13 weeks, |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | - Teaching using PowerPoint- Posting information/teaching material to the e-course e-learning platform- Show Educational Videos / Tutorials <https://ecourse.uoi.gr/enrol/index.php?id=3401> |
| **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* |

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| ***Activity*** | ***Workload of each students group (two groups per semester)*** |
| Lectures | 26 |
| Student Group Discussions | - |
| Workshop | - |
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| Total  | ***26*** |
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| **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.* | **Language of evaluation**: GreekOral or written examination at the end of the semester |

1. **ATTACHED BIBLIOGRAPHY**

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| *Teaching - study material:*Recommended literature and notes from the course  |