**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences |
| **ACADEMIC UNIT** | Faculty of Medicine |
| **LEVEL OF STUDIES** | Undergraduate |
| **COURSE CODE** | **ΙΑΥ115** | **SEMESTER** | **Α (1st)**  |
| **COURSE TITLE** | **Embryology I** |
| **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 | 2 |  |
| Practical Tutorials  | 1 |  |
|  |  | 3 |
| *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  |
| **PREREQUISITE COURSES:** |  |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek  |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No  |
| **COURSE WEBSITE (URL)** | <https://ecourse.uoi.gr/course/view.php?id=1385> |

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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| Throughout this course the students are expected:* to familize themselves with the basic embryological terminology
* to understand complete details about the structures and development of human embryo at different stages (from fertilization to birth)
* to understand the general principles of gametogenesis
* to understand the general principles the development, structure and function of the placenta and embyonic membranes .
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| **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…**…….* |
| * Working independently
* Search for, analysis and synthesis of data and information, with the use of the necessary technology
* Production of new research ideas
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1. **SYLLABUS**

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| * Introduction to embryology
* Gametogenesis (Meiosis, Spermatogenesis, Oogenesis), Female Reproductive Cycles
* First week of human development
* Second week of human development
* Third week of human development
* Fourth to Eighth Weeks of Human Development
* Ninth Week to Birth: The Fetal Period
* Placenta and Fetal Membranes
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1. **TEACHING and LEARNING METHODS - EVALUATION**

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| **DELIVERY***Face-to-face, Distance learning, etc.* | Teaching is implemented through lectures (face-to-face teaching) and practical tutorials in small groups . |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Powerpoint slides, videos and printed figures are used as part of the lectures and practical tutorials. Teaching material as well as detailed instructions for the writing essay are available on the asynchronous distance learning platform (e-course) and are updated every year.In the e-course students also have access to self-assessment questions, quizzes, embryology websites, a dictionary of embryological terms and recent research articles.The e-course is also used for the continuous communication with the students on several aspects related to the teaching activity or the exams (e.g. syllabus, learning outcomes, teaching and learning methods, evaluation procedure and criteria, recommended books).  |
| **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***  |
| Lectures  | 26 |
| Practical tutorials | 18 |
| Student’s study hours  | 26 |
| Study and analysis of bibliography related to essay writing  | 22 |
| **Course total**  | **90** |

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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: Greek. Methods of evaluation: 1. Oral or written exams that include open-ended questions and multiple choice questionnaires and/or short-answer questions.
2. Written essay.

The grade of the course is determined by combining the marks of: 1. The written or oral examination (90%)2. The writing essay and/or public presentation (10%).The evaluation criteria are specifically defined, and are accessible by the students on the asynchronous distance learning platform (e-course). |

1. **ATTACHED BIBLIOGRAPHY**

*Teaching - study material*

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| Σημειώσεις του μαθήματος Εμβρυολογία Ι. Μπαρμπούτη Αλεξάνδρα, Καναβάρος Παναγιώτης Κ. Moore «Εμβρυολογία του Ανθρώπου-Από τη Σύλληψη έως τη Γέννηση-Κλινική Προσέγγιση»Εκδόσεις BROKEN HILL PUBLISHERS LTD, 2019Κωδικός 77107211/ ISBN: 9789925563326B.Carlson «Ανθρώπινη Εμβρυολογία και Αναπτυξιακή Βιολογία»Εκδόσεις Παρισιάνου ΑΕ, 2016 ΑΘΗΝΑΚωδικός 59396449/ ISBN 978-960-583-122-6W.J. Larsen «Εμβρυολογία του ανθρώπου»Εκδόσεις Παρισιάνου ΑΕ, 2004 ΑΘΗΝΑΚωδικός 41879/ ISBN 9789603943174 |