**COURSE OUTLINE "BIOETHICS"**

## 1. GENERAL

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| **SCHOOL** | HEALTH SCIENCES | | |
| **DEPARTMENT** | MOLECULAR BIOLOGY AND GENETICS | | |
| **STUDY LEVEL** | ISCED LEVEL 6 | | |
| **COURSE CODE** | **MBG607** | **SEMESTER** | 6th and 8th |
| **COURSE TITLE** | BIOETHICS | | |

| **TEACHING ACTIVITIES** *In case credits are awarded to individual components of the course eg. Lectures, laboratory practicals, etc. If credit units are awarded for the whole course, indicate the weekly teaching hours and total credits* | **HOURS/WEEK** | **ECTS CREDITS** |
|---|---|---|
| | 2 | 3 |

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| **COURSE TYPE** *General, Background, Scientific field course, Expertise Course, Skills Development etc* | SCIENTIFIC FIELD |
| **PREREQUISITE COURSES:** | NO |
| **LANGUAGE OF TEACHING AND EXAMINATIONS:** | GREEK |
| **THE COURSE IS OFFERED TO ERASMUS STUDENTS** | NO |
| **COURSE WEBSITE (URL)** | https://eclass.duth.gr/courses/ALEX01215/ |

## 2. LEARNING OUTCOMES

**Learning outcomes**

*Describe the learning outcomes of the course, the specific knowledge, skills and competencies that students will acquire after successfully completing the course. Refer to Appendix A.*
*• Description of learning outcomes for the course according to the level of study - refer to the European Higher Education Area Qualifications Framework*
*• Descriptive Indicators of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B Curriculum Vitae Summary Guide*

Upon successful completion of the course students will be able to:

- familiarize and understand the subject of bioethics
- gain critical insights of the relationship between modern bioscience and ethics
- develop critical thinking skills by presenting clear arguments, justifying and defending their views on bioethics
- analyze and investigate bioethical issues

**General Skills**

*Which of the general competencies that the student will have acquired on the completion of the studies (see also the Diploma Supplement and below) are relevant to this course?*

*Research, analysis and synthesize of data and information, using the necessary technologies*
*Adaptation to new situations*
*Decision making*
*Autonomous work*
*Team work*
*Work in an international environment*
*Work in an interdisciplinary environment*
*Production of new research ideas*
*Project design and management*
*Respect for diversity and multiculturalism*
*Respect for the natural environment*
*Development of social, professional and moral responsibility and gender sensitivity*
*Promotion of free, creative and inductive thinking*

Search, analysis and synthesis of data and information, ICT Use
Adaptation to new situations
Decision making
Teamwork
Equity and Inclusion
Respect for the natural environment
Demonstration of social, professional and moral responsibility and sensitivity to gender issues
Critical thinking
Promoting free, creative and inductive reasoning

## 3. COURSE CONTENT

1. Principles of Bioethics: Familiarization with the definition of bioethics and its fundamental principles. Exploration of ancient and

modern philosophy related to contemporary bioethical issues. Understanding the core theories of bioethics.
2. The Ethics of Research:
-Ethical issues related to conducting and publishing research.
-The ethical responsibility and rights of bioscientists.
-The rights of research participants.
-Research involving experimental animals.
3. Bioethics and the Beginning of Life: Bioethical issues concerning the beginning of human life, before, during, and after birth.
4. Bioethics and the End of Life: Issues regarding life duration and quality, prolongation of death, questions about discontinuing
supportive treatment, euthanasia, and assisted suicide.
5. Genetics and Bioethics: Genomics and genomic databases, genetic discrimination, genetic interventions, eugenics, cloning, and the
use of genetic information.
6. Regenerative Medicine: Stem cells and cellular therapies.
7. Reproduction: Examination of technology and legal regulations concerning human reproduction, including alternative family
structures.
8. Organ Trade and Transplantation: The institution of transplantation, tissue and organ transplants, family and donor consent, organ
donation, and the trade in human organs.
9. Environment and Ethics: Modern trends in environmental ethics and critical environmental issues.
10. Bioethics in Clinical Trials.
11. Agricultural Activity and Ethics: Genetic modification, genetically modified foods (artificial food), genetically modified plants.
12. Bioethics and Data Protection Issues: Artificial Intelligence (AI) and GDPR.
13. Bioethics Law: Introduction to modern legal regulations on bioethical issues, particularly concerning the value of life. Overview of
the legal framework in Greece and Europe.

## 4. TEACHING and LEARNING METHODS - EVALUATION

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| **TYPE OF TRAINING**<br>*Face-to-face, Distance learning, etc..* | Face to face |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY**<br>*Use of ICT in teaching, laboratory education, and in communication with the students* | Use of ICT in Teaching<br>Use of ICT in Communication with students |
| **MODES OF DELIVERY**<br>*Describe the teaching methods in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, practicum, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.*<br>*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/semester*** |
|---|---|
| Lectures | 13 |
| Interactive teaching | 13 |
| Study and analysis of bibliography | 27 |
| Project / Essay writing | 37 |
| **Course Total** | **90** |

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| **STUDENT PERFORMANCE EVALUATION**<br>*Describe of the methods of evaluation language, methods of evaluation, types of exams, 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* | **Student evaluation languages**<br>Greek, English<br><br>**Method (Formative or Concluding)**<br>Formative<br><br>**Student evaluation methods**<br>Presentation in audience (60%)<br>Midterm exam (40%) |

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| *Are evaluation criteria known to the students?* | |

## 5. SUGGESTED BIBLIOGRAPHY


1. BIOETHICAL ISSUES. Author(s): Stavroula Tsinorema & Kitsos Louis (editors) - Publishing Company: Crete University Press--Year of Publishing: 2013

2. «ΒΙΟΗΘΙΚΗ». Αναφορά στους γενετικούς και τεχνολογικούς νεωτερισμούς. Σταμάτης Ν. Αλαχιώτης. Εκδοτικός Οίκος: Ελληνικά Γράμματα, Έτος Έκδοσης: 2004

3. Βιοηθική και δικαιώματα, Χωριανοπούλου Μ., 2018

4. Κλωνοποίηση και βιοηθική, Πρωτοπαπαδάκης Ε., 2013