**SYLLABUS**

**regarding the qualification cycle SUMMER 2023/2024**

1. Basic Course/Module Information

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| --- | --- |
| Course/Module title | BIOETHICS |
| Course/Module code \* |  |
| Faculty (name of the unit offering the field of study) | INSTITUTE OF BIOLOGY AND BIOTECHNOLOGY |
| Name of the unit running the course | DEPARTMENT OF BIOLOGY |
| Field of study | Biology, Biotechnology, Sociology, Philosophy, Law, Medicine |
| Qualification level | 1ST LEVEL, 2nd LEVEL |
| Profile | UNIVERSITY-WIDE |
| Study mode | STATIONARY |
| Year and semester of studies |  |
| Course type | BASIC |
| Language of instruction | ENGLISH |
| Coordinator | MAŁGORZATA KARBARZ, PhD |
| Course instructor | MAŁGORZATA KARBARZ, PhD |

\* - as agreed at the faculty

1.1.Learning format – number of hours and ECTS credits

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Semester  (n0.) | Lectures | Classes | Colloquia | Lab classes | Seminars | Practical classes | Internships | others | **ECTS credits** |
|  |  | 30 |  |  |  |  |  |  | 5 |

1.2. Course delivery methods

- conducted in a traditional way

- involving distance education methods and techniques

1.3. Course/Module assessment (exam, pass with a grade, pass without a grade)

*Pass with a grade*

2. Prerequisites

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| Basic knowledge of genetics and biology, basic knowledge about society from primary and secondary school |

3. Objectives, Learning Outcomes, Course Content, and Instructional Methods

3.1. Course/Module objectives

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| --- | --- |
| O1 | student recognition with issues related to bioethics |
| O2 | ACQUAINTING THE STUDENT WITH BIOETHICAL DOCUMENTS |
| O3 | STUDENT RECOGNITION WITH ETHICAL LIMITS OF DISCOVERIES IN THE FIELD OF BIOTECHNOLOGY AND BIOMEDICINE |
| O4 | STUDENT RECOGNITION WITH ETHICAL LIMITS OF DISCOVERIES IN THE FIELD OF BIOTECHNOLOGY AND BIOMEDICINE |
| O5 | STUDENT'S ABILITY TO ETHICALLY ANALYZE METHODS AND PRODUCTS OF BIOTECHNOLOGY AND BIOMEDICINE |
| O6 | THE STUDENT IS CONVINCED OF THE NECESSITY OF SELF-IMPROVEMENT; |
| O7 | THE STUDENT'S ATTITUDE OF RESPONSIBLE, CONSCIOUS AND ETHICAL HANDLING OF BIOLOGICAL MATERIAL. |

3.2. Course/Module Learning Outcomes (to be completed by the coordinator)

|  |  |  |
| --- | --- | --- |
| Learning Outcome | The description of the learning outcome  defined for the course/module | Relation to the degree programme outcomes |
| LO\_01 | THE STUDENT LEARNS TOOLS FOR ETHICAL ANALYSIS OF BIOTECHNOLOGY AND BIOMEDICAL METHODS AND FACILITIES USED, AMONG OTHERS, IN AGRICULTURE AND MEDICINE | K\_K08 |
| LO\_02 | SHE/HE EVALUATES THE BENEFITS AND RISKS OF NEW DISCOVERIES IN BIOTECHNOLOGY SUCH AS GMOS, EMBRYONIC STEM CELLS, ETC. IT PERFORMS ETHICAL EVALUATION OF PROCEDURES SUCH AS EUGENICS, IN VITRO FERTILIZATION, AND ABORTION | K\_U17 |
| LO\_03 | SHE/HE EXHIBITS ATTITUDES OF RESPONSIBLE, CONSCIOUS AND ETHICAL MANIPULATION OF BIOLOGICAL SYSTEMS.  IS AWARE OF THE IMPORTANCE OF SOCIAL, PROFESSIONAL AND ETHICAL RESPONSIBILITY FOR THE PRODUCTION OF HIGH-QUALITY FOOD, ANIMAL WELFARE, SHAPING AND THE STATE OF THE NATURAL ENVIRONMENT | K\_K05 |

**3.3. Course content (to be completed by the coordinator)**

1. Lectures

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| Content outline |
| 1. Bioethics - introduction, basic definitions |
| 2. Bioethical documents |
| 3. Bioethics of the beginnings of life |
| 4. Bioethics of life expectancy |
| 5. Bioethics of the end of life |

1. Classes, tutorials/seminars, colloquia, laboratories, practical classes

3.4. Methods of Instruction

e.g.

*Lecture: a problem-solving lecture/a lecture supported by a multimedia presentation/* *distance learning*

*Classes: text analysis and discussion/project work (research project, implementation project, practical project)/ group work (problem solving, case study, discussion)/didactic games/ distance learning*

*Laboratory classes: designing and conducting experiments*

a problem-solving lecture/a lecture supported by a multimedia /distance learning

Classes: text analysis and discussion/project work

4. Assessment techniques and criteria

4.1 Methods of evaluating learning outcomes

|  |  |  |
| --- | --- | --- |
| Learning outcome | Methods of assessment of learning outcomes (e.g. test, oral exam, written exam, project, report, observation during classes) | Learning format (lectures, classes,…) |
| LO-01 | Classes - presentation | classes |

4.2 Course assessment criteria

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| Classes -CREDIT ON THE BASIS ON PRESENTATION |

5. Total student workload needed to achieve the intended learning outcomes

– number of hours and ECTS credits

|  |  |
| --- | --- |
| Activity | Number of hours |
| Scheduled course contact hours | 30 |
| Other contact hours involving the teacher (consultation hours, examinations) | 40 |
| Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.) | 60 |
| Total number of hours | 130 |
| Total number of ECTS credits | 5 |

\* One ECTS point corresponds to 25-30 hours of total student workload

6. Internships related to the course/module

|  |  |
| --- | --- |
| Number of hours |  |
| Internship regulations and procedures |  |

7. Instructional materials

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| Compulsory literature:  MAPHAM B. – BIOETHICS: AN INTRODUCTION FOR THE BIOSCIENCES OXFORD |
| Complementary literature:  VERMEULEN N., TAMMINEM S., WEBSTER A. “BIO-OBJECTS LIFE IN 21ST CENTURY. ASHGATE 2011 |

Approved by the Head of the Department or an authorised person