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| FACULTY: | **Faculty of Mechanical and Energy Engineering**  Department of Biomedical Engineering |
| FIELD OF STUDY: | **Biomedical Engineering** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski, DSc, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Legal and ethical aspects of biomedical engineering** |
| LECTURER’S NAME: | Katarzyna Mitura, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | katarzyna.mitura@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lectures (30) |
| LANGUAGE OF INSTRUCTION: | * **English full time scheme for classes with 5 and more International Erasmus+ students enrolled/accepted;** * **English 50% individually with the teacher + Polish 50% with Polish students or individual project work- scheme for classes with less than 5 International Erasmus+ students enrolled/ accepted;** |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | Presentation |
| COURSE CONTENT: | 1.Discussion of examples of new technologies in medicine, e.g. cell cloning (somatic and embryonic), the use of stem cells in transplants, the use of stem cells (e.g. from umbilical cord blood) for the treatment of cancer.  2. In vitro fertilization - legal, ethical, cultural and religious aspects.  3.Tissue bioreactor - ethics, law and threats.  4. The Hippocratic Oath and contemporary law and medical ethics.  5. Euthanasia - legal and ethical aspects.  6.Invasive medical tests - ethics, law and health. Genetically modified food.  7. The principle of presumed consent in transplants - ethics and law.  8. Stem cells in treatment (transplants, leukemia) and in scientific research - ethical and legal problems. |
| ADDITIONAL INFORMATION: | Basic chemistry, physics, mathematics courses completed. Knowledge of basic issues in physics, chemistry and mathematics describing the state of matter. Basic information on materials science.  Code: 0911>1000-PiEAIB7 |