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| FACULTY: | **Faculty of Mechanical 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: | **Laboratory for databases design and medical informatics** |
| LECTURER’S NAME: | Katarzyna Mydłowska, MSc. Eng. |
| E-MAIL ADDRESS OF THE LECTURER: | katarzyna.mydlowska@gmail.com |
| ECTS POINTS FOR THE COURSE: | 2 |
| ACADEMIC YEAR: | 2021/2022 |
| 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?) | Laboratory (project) (30h) |
| LANGUAGE OF INSTRUCTION: | English |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | Project work |
| COURSE CONTENT: | 1. Acquaintance with the relational database structure in the database management system 2. The table as a relation and its features in the database management system 3. Table operations in the database management system 4. Creating relationships between tables (relationships) in the database management system 5. Creating subsequent normal forms of selected data sets 6. Conceptual design of the selected relational database type 7. Logical design of the selected relational database type 8. Physical design of the selected relational database type 9. Building and testing your own relational database based on conceptual, logical and physical projects in the database management system |
| ADDITIONAL INFORMATION: | Student should have basic knowledge about databases and the relational data model from the previous course. |