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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](mailto:igor.maciejewski@tu.koszalin.pl) |
| COURSE TITLE: | **Database management systems** |
| LECTURER’S NAME: | Katarzyna Mydłowska, MSc. Eng. |
| E-MAIL ADDRESS OF THE LECTURER: | [katarzyna.mydlowska@tu.koszalin.pl](mailto:katarzyna.mydlowska@tu.koszalin.pl) |
| ECTS POINTS FOR THE COURSE:  COURSE CODE (USOS): | 2 0911>1000-SZRBDn |
| ACADEMIC YEAR: | 2022/2023 |
| SEMESTER:  (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 15 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lectures (15h) |
| LANGUAGE OF INSTRUCTION: | English |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | Class test |
| COURSE CONTENT: | 1. Database system and its features 2. Relational data model 3. Features of the relations 4. Relationships between tables (relations) 5. Normalization of a data set 6. Activities in databases 7. Relational database structure (tables, indexes, perspectives) 8. Database transactions 9. Database design - co-conceptual design 10. Database design - logical design 11. Database design - physical design |
| ADDITIONAL INFORMATION: | The student should have knowledge of the basics of mathematical logic, knowledge of the basics of operations on sets, the ability to navigate in the environment of Microsoft software packages. |