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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: | **Database management systems** |
| LECTURER’S NAME: | Andrzej Błażejewski, Eng. PhD |
| E-MAIL ADDRESS OF THE LECTURER: | andrzej.blazejewski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 |
| ACADEMIC YEAR: | 2024/2025 |
| 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 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?) | 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.  Code: 0911>1000-SZRBDn |