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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: | **Medical imaging** |
| LECTURER’S NAME: | Zbigniew Suszyński |
| E-MAIL ADDRESS OF THE LECTURER: | [zbigniew.suszynski@tu.koszalin.pl](mailto:zbigniew.suszynski@tu.koszalin.pl) |
| ECTS POINTS FOR THE COURSE:  COURSE CODE (USOS): | 2 0911>1000-OMd |
| ACADEMIC YEAR: | 2022/2023 |
| SEMESTER:  (W – winter, S – summer) | S |
| 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 (30h) |
| 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. Physical principles of medical imaging  2. Methods of tomography and inverse problems  3. Autofluorescence imaging  4. USG imaging methods  5. RTG imaging  6. Computer Tomography (CT)  7. Magnetic Resonance Imaging (MRI)  8. Positron-emission tomography (PET)  9. IR thermography and thermal tomography |
| ADDITIONAL INFORMATION: |  |