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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: | **Electronic medical equipment** |
| LECTURER’S NAME: | Zbigniew Suszyński, Prof. |
| E-MAIL ADDRESS OF THE LECTURER: | zbigniew.suszynski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 5 |
| COURSE CODE (USOS): | 0911>1000-EAMed |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 45 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lectures 30h, classes 15 h |
| 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?) | written exam |
| COURSE CONTENT: | Students taking the course will acquire knowledge in the field of biophysics necessary to describe and analyze phenomena as well as design, construction and operation of medical equipment. Knowledge about biological signals, their source, basic parameters and recording methods.  Principles of health and safety at work with medical equipment. Discussion of typical computer programs supporting the implementation of typical measurement tasks using medical equipment. |
| ADDITIONAL INFORMATION: | Basic chemistry, physics, mathematics courses completed. Knowledge of basic issues in IT, physics, chemistry and mathematics describing the state of matter. |