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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: | **3D graphics and CAD 2** |
| LECTURER’S NAME: | Tomasz Królikowski, D. Sc.,PhD, Eng |
| E-MAIL ADDRESS OF THE LECTURER: | tomasz.krolikowski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 5 |
| COURSE CODE (USOS): | 0911>1000- 3DgCAD2 |
| ACADEMIC YEAR: | 2025/2026 |
| SEMESTER: (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 75 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture (15h), laboratory (30h), project (30h) |
| 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 reports, exam, prototype |
| COURSE CONTENT: | Elements of a construction drawing - advanced examples.  Projection - advanced tasks  Views and sections - advanced tasks  Advanced documentation of the Solidworkd 3D CAD program.  Modification of objects - advanced tasks  Precision drawing techniques - advanced tasks  Modification of objects: hatching - advanced tasks  Controlling layers, defining blocks - advanced tasks  Dimensioning: linear advanced tasks Preparing a drawing for printing.  Defining the purpose and scope of the project  Selection of a specific area of application of the project in biomedical engineering  Indication of the application and selection of the purpose - medical conditions and standards  Elements of the construction record  Projection - making project components  Views and sections - making project components  Making a complete drawing.  Advanced documentation of the Solidworkd 3D CAD program - project settlement |
| ADDITIONAL INFORMATION: | General knowledge of IT, computers, numerical calculations. General physics and mechanics knowledge. |