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| FACULTY: | **Faculty of Mechanical and Energy Engineering** |
| FIELD OF STUDY: | **Mechatronics** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski, DSc, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Simulation and virtual prototyping of mechatronic systems** |
| LECTURER’S NAME: | Tomasz Królikowski, DSc, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | tomasz.krolikowski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 3 |
| COURSE CODE (USOS): | 0921>1400-SiWPSM |
| ACADEMIC YEAR: | 2025/2026 |
| SEMESTER: (W – winter, S – summer) | S |
| 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?) | Lecture (30 h), group tutorials (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: | Advanced CAD prototyping;Modellingmechanical structure; Structural Analysis; Finite element method; Examples of dynamics prototyping model; Movement optimization, |
| ADDITIONAL INFORMATION: | Work with Ansys, Comsol, SolidWorks, Inventor Professional programs. |