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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: | **Models of signals and continuous processes** |
| LECTURER’S NAME: | Marcin Walczak, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | marcin.walczak@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 3 |

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| COURSE CODE (USOS): | 0921>1400-MSiPC |

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| ACADEMIC YEAR: | 2025/2026 |
| SEMESTER:(W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30+15=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), Classes (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?) | written exam, project work |
| COURSE CONTENT: | The course aims to provide basic competences in the field of analog signals processing. Students will be introduced to the core concepts of analog signals and systems, namely, mathematical modeling of LTI systems, analog signals processing, signal and systems analysis in the frequency domain etc. |
| ADDITIONAL INFORMATION: | Prerequisites:  - basic knowledge in electrical engineering  - basics in differential calculus |
| RECOMMENDED LITERATURE | - A. Oppenheim, *Signals and Systems*  - Matlab documentation |