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| FACULTY: | Faculty of Electronics and Computer Science |
| FIELD OF STUDY: | Electronics and Telecommunications |
| ERASMUS COORDINATOR OF THE FACULTY: | Marcin Walczak, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | marcin.walczak@tu.koszalin.pl |
| COURSE TITLE: | Mathematical Analysis Fundamentals |
| LECTURER’S NAME: | Dariusz Jakóbczak, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | [dariusz.jakobczak@tu.koszalin.pl](mailto:dariusz.jakobczak@tu.koszalin.pl) |
| ECTS POINTS FOR THE COURSE: | 4 |
| ACADEMIC YEAR: | 2021/2022 |
| 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?) | lecture – 30h  group tutorials – 15h |
| LANGUAGE OF INSTRUCTION: | English |
| ASSESSMENT METHOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | written exam, class test |
| COURSE CONTENT: | Features and graphs of elementary functions (polynomial, homographic, exponential, logarithmic, trigonometric, cyclometric), domain, roots, monotonicity, asymptotics, inverse function, continuous function, derivative of function, calculation of derivative from definition, formulas for derivatives, extremum, convexity, first and second derivative, Taylor series, MacLaurin formula, integrals, method and use of integrals. |
| ADDITIONAL INFORMATION: |  |

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