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| FACULTY: | **Faculty of Electronics and Computer Science** |
| FIELD OF STUDY: | **Computer Science** |
| ERASMUS COORDINATOR OF THE FACULTY: | Marcin Walczak, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | marcin.walczak@tu.koszalin.pl |
| COURSE TITLE: | **Probability and Statistics** |
| LECTURER’S NAME: | Dariusz Jakóbczak, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | dariusz.jakobczak@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 6.0 |
| COURSE CODE (USOS): | 0711>1200-PiS |
| ACADEMIC YEAR: | 2025/2026 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 60 |
| 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 – 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 exam,  class test |
| COURSE CONTENT: | Classical probability (combinatorics, conditional probability, Bayes rule, Bernoulli schema), geometrical probability, discrete random variable (ordinary moments and central moments), discrete probability distribution (uniform, Bernoulli, Poisson, geometric, hyper-geometric), continuous random variable (density and probability distribution function), continuous probability distribution (exponential, Gauss, Cauchy, Rayleigh, Maxwell, Laplace, Weibull, beta), two-dimensional random variable, Pearson correlation, mediana, quantiles, histogram, graphs, averages, asymmetry, curtosis, statistical methods, level of trust. |
| ADDITIONAL INFORMATION: |  |

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