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| FACULTY: | Department of Mechanical Engineering |
| FIELD OF STUDY: | Mechanics and Machine Building |
| ERASMUS COORDINATOR OF THE  FACULTY: | Dr hab. inż. Agnieszka Kułakowska, Prof. PK |
| E-MAIL ADDRESS OF THE  COORDINATOR: | [agnieszka.kulakowska@tu.koszalin.pl](mailto:agnieszka.kulakowska@tu.koszalin.pl) |
| COURSE TITLE: | Engineering statistics |
| LECTURER’S NAME: | Prof. dr hab. inż. Leon Kukiełka |
| E-MAIL ADDRESS OF THE LECTURER: | [Leon.kukielka@tu.koszalin.pl](mailto:Leon.kukielka@tu.koszalin.pl) |
| COURSE CODE (USOS): | 10 |
| ECTS POINTS FOR THE COURSE: | 3 ECTS |
| ACADEMIC YEAR: | 2023/2024 |
| SEMESTER:  (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 15+15 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture, practice |
| LANGUAGE OF INSTRUCTION: | English, Polish, (separate group with English as leading language depends from the incomings number) |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written  reports, project work, presentation, continuous assessment, other – what type?) | Written exam |
| COURSE CONTENT: | Grouping statistical and graphical representation of a random variable.  Descriptive statistics. The calculus of moments.  Frequency distribution, histogram and cumulative distribution.  Random variable distributions. Parameter estimation random variable. Verification of statistical hypotheses.  Correlation and linear regression between the dependent variable and independent.  Determination of confidence intervals for linear regression function.  Calculations in Excel program. Calculations in the program Statistica. Measures of volatility and location.  The ranks of statistical charts.  Descriptive statistics of a random variable, invoice moments.  Analysis of statistical group, checking compliance of the distribution of the normal distribution.  Point and interval estimation. Parametric and nonparametric tests.  Linear regression and correlation, determination of confidence intervals for linear regression.  Analyses in program Excell and Statistica. |
| ADDITIONAL INFORMATION: |  |

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