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
COURSE TITLE:	Engineering statistics
LECTURER'S NAME:	Prof. dr hab. inż. Leon Kukiełka
E-MAIL ADDRESS OF THE LECTURER:	Leon.kukielka@tu.koszalin.pl
COURSE CODE (USOS):	10
ECTS POINTS FOR THE COURSE:	3 ECTS
ACADEMIC YEAR:	2024/2025
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 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:	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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