

Title:	Statistics
Lecture hours:	30
Study period: (summer/winter)	winter or summer
Number of credits:	6
Assessment methods:	exam, problem solving
Language of instruction:	English
Prerequisites:	Combinatorics, basics of Calculus and Measure Theory
Course content:	Probability; Random variables; Limit theorems; Basic concepts of Statistics; Estimation; Testing hypotheses; Multivariate Distributions, Correlation.
Learning outcomes:	By the end of the course students should know: basic concepts of Probability and should be able to: compute probability of random events, expected value, variance and standard deviation, analyse basic experiments scheme, analyse structure of empirical data, conduct simple statistical inference, e.g. testing statistical hypotheses, examining correlation.
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Literature:	Douglas C. Montgomery, George C. Runger, <i>Applied Statistics and Probability for Engineers</i> , John Wiley & Sons, Inc, USA 2003