

<b>Title:</b>	<b>Probability and Statistical Methods in Economy</b>
<b>Lecture hours:</b>	45
<b>Study period: (summer/winter)</b>	winter or summer
<b>Number of credits:</b>	6
<b>Assessment methods:</b>	classroom assessment, project, written exam
<b>Language of instruction:</b>	English
<b>Prerequisites:</b>	basic Probability and Statistics
<b>Course content:</b>	Introduction and descriptive statistics; normal distribution; sampling distributions; intervals of confidence; hypothesis testing; comparison of two populations; variance analysis; simple linear regression and correlation; time series, forecasting; nonparametric methods and chi-square test; Bayesian statistics and decision analysis appendices; sampling methods.
<b>Learning outcomes:</b>	By the end of the course students should know: methods of a structure analysis, basic distributions, methods of determining confidence intervals, methods of hypothesis testing, methods of correlation and regression analyses, theory of forecasting, theory of Bayesian statistics.
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<b>Literature:</b>	Douglas C. Montgomery, George C. Runger, <i>Applied Statistics and Probability for Engineers</i> , John Wiley & Sons, Inc, USA 2003 Amir D. Aczel, <i>Complete Business Statistics</i> , Hardcover – 2012