

The title of the course	Statistics
Faculty	Faculty of Management and Transport
The level of studies	Bachelor Studies or Engineering Studies
Semester	Winter or summer
The form of classes and number of hours	15 h
Classes conducted for Polish students. Erasmus students can join them	No
Language of instruction	English
The number of ECTS	2 ECTS Lectures and Exercises with the teacher 15h Student's own work: <ul style="list-style-type: none"> • Homeworks 25 h • Preparation for the test 10 h TOTAL: 50 h
Teacher	Jarosław Jabłonka, PhD
The aims of the course (maximum 500 characters)	The aim of the course is to familiarize students with the basic methods of statistical data analysis. Computer programs (Excel or R) will be used in the calculation.
The content of the course: main topics and key ideas	Basic Concepts of Probability - Randomness and Probability Graphs, Averages, Standard Deviations, Correlations Distributions of Random Variables Regression Models
Didactics methods	Lecture Method Content-Focused Methods Problem Solving Methods Creative Thinking
Course requirements	No
Literature (basic and supplementary)	Madsen B., Statistics for Non-Statisticians, Springer-Verlag Berlin Heidelberg, 2011 Holický M., Introduction to Probability and Statistics for Engineers, Springer-Verlag Berlin Heidelberg, 2013 Wood M., Making Sense of Statistics. A Non-Mathematical Approach, Red Globe Press London, 2003 Stowell S., Using R for Statistics, Apress Berkeley, CA, 2014 Quirk T. J., Excel 2010 for Engineering Statistics. A Guide to Solving Practical Problems, Springer International Publishing Switzerland, 2014 Quirk T. J., Excel 2010 for Social Sciences Statistics. A Guide to Solving Practical Problems,

	<p>Springer International Publishing Switzerland, 2015 Quirk T. J., Excel 2010 for Educational and Psychological Statistics. A Guide to Solving Practical Problems, Springer Science+Business Media, LLC, 2012</p>
<p>The effects of the education</p> <ul style="list-style-type: none"> - knowledge - skills - social competences 	<p>Knowledge: A student knows the basic concepts of statistics and description measures the distribution of one feature and two features .</p> <p>Skills: A student</p> <ul style="list-style-type: none"> • processes data obtained in statistical surveys, • calculates and interprets the measures of description of the distribution of one feature and two features. <p>Social competences:</p> <p>A Student can organize his/her work, respecting ethical and professional standards.</p>