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| <i>Course title:</i> Elements of statistics | <i>Code</i> ErasmusFCEE-EM |
| <i>Field of study:</i> Civil Engineering | <i>Year / semester</i> |
| <i>Speciality</i> | <i>Course</i> |
| <i>Hours</i> Lectures: 10 Classes : - Laboratory : 5 Projects /seminars : - | <i>Number of credits</i> |

Lecturer:

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Status of the course in the study program:

Course for students of Civil Engineering.

Objectives of the course:

The aim of this course is to provide students with basic statistical methods used in civil engineering practice.

Course description:

The course is provided in the form of lectures and complementary classes. Students work with computers in a computer laboratory. Topics of the course: elements of Descriptive statistics. Random variables and their properties. Ideas of statistical hypothesis and statistical tests. Estimation. Correlation and regression analysis. Application of MS Excel for statistical calculations.

Initial knowledge:

Basic knowledge of linear algebra and mathematical analysis.

Teaching methods:

Lectures, multimedia presentations and traditional teaching methods, training on PC.

Assessment methods:

Final test.

Bibliography:

1. T. T. Song, Fundamental of Probability and Statistics for Engineers, Wiley & Sons, 2005
2. D. C. Montgomery, G. C. Runger, Applied Statistics and Probability for Engineers, Wiley & Sons, 2003