



Name of the course:

Course type:

Responsible lecturer:

Content:

Literature:

Data Analysis

Optional

Dr. T. Kiss Judit

The course aims to give an insight into the different approaches, methods and applications of data analysis. Within the framework of the subject, non-parametric methods and hypothesis tests are described, such as the Kolmogorov-Smirnov test, the Wilcoxon test, the Kruskal-Wallis test, the Mann-Whitney test, and the Friedman test. Possibilities of examining the relationship between variables are correlation analysis, regression analysis, and analysis of variance. Regression function estimation: Square error, examination of the significance of coefficients, normality, Fischer F-test.

- R. Russell Rhinehart, Robert M. Bethea, Applied Engineering Statistics. 2nd Edition. ISBN 9781032119489. CRC Press, 2021.
- J. Dickinson Gibbons, Subhabrata Chakraborti, Nonparametric Statistical Inference CRC Press, 2020. Sixth Edition.