STATISTICAL DATA PROCESSING– Syllabus and General Information

6 CREDITS, WINTER SEMESTER

Aim of the course:
Based on the basic knowledge of statistics, e.g. in the Bachelor's degree course Statistics, to present and explain further notions and concepts of mathematical statistics, the main findings of this theory, and basic statistical and econometric methods. The contents of the course are presented for economic applications. To acquire the necessary computing skills and to learn to solve statistical problems using Excel on the computer.

Requirements

1) 70% attendance at the seminars (or calculating a mathematical problem or writing a seminar paper)

2) Two tests: a) for 30 points=TEST (on the 7th of November) and

b) for 70 points= FINAL EXAM (January, February).

Form of the exam: written. You can gain extra point for tasks and homework.

Evaluation: A (100-90 points), B (89-80), C (79-70), D (69-65), E (64-60), F (59-0).

LECTURE SCHEDULE

1) (26.9.2024) Entrance test and general information
2) (3.10.2024) INDIVIDUAL WORK (topic: Descriptive statistics)
3) (10.10.2024) Descriptive statistics (Measures of central tendency, Measures of dispersion)
4) (17.10.2024) Hypothesis testing
5) (24.10.2024) Chi-squared test
6) (31.10.2024) Analysis of variance (ANOVA)
7) (7.11.2024) TEST (content = 1 – 6 lecture)
8) (14.11.2024) INDIVIDUAL WORK (topic: Using ANOVA or Chi-squared test in economy or marketing)
9) (21.11.2024) Simple linear regression
10) (28.11.2024) Multiple regression analysis
11) (5.12.2024) Time series analysis
12) (12.12.2024) Time series analysis; You can write re-test.
13) **(17.12.2024) Repetition; B 308; 10.30 – 11.30 a.m. (Instead of 19.12.2024)**