

DESCRIPTION AND SYLLABUS

Name of the subject in Hungarian:	Statistics
Name of the subject in English:	Statistics
Credit value of the subject:	7
The code of the subject in the electronic study system:	BN-STATIC-07-KG
Classification of the subject:	Obligatory
Language of instruction (in case of non-Hungarian courses):	English
Institute or department responsible for the subject:	Institute of Methodology
Course type and number of contact hours:	Lecture + Practical, class per week: 2+2, class per semester: 0+0
Mode of study: (Full-time / Part-time):	Full-time training
The semester in which the subject is open for registration:	2022/2023 1st semester
Prerequisite(s):	[Calculus for Business and Economics (fulfillment)]

THE PURPOSE OF THE SUBJECT, LEARNING OUTCOMES:

The aim of the course unit is that the students can recognize, choose and apply the basic statistical methods during the course, in their work or everyday life. One of the important goals is to use the Excel program to determine trends and regression functions. The students need to understand the meaning of the basic statistical parameters and explain the interpretations. To earn these skills, the students during team works will be able to establish a good atmosphere, which can improve the student's communicative skills. At the end of the course, the students will be able to create a representative sample to draw conclusions from the sample population and to give different graphical representations which are based on the data. Last but not least they can collect the useful trends, regressions, index numbers and central and dispersion figures which will be included in the portfolio.

SUMMARY OF THE CONTENT OF THE SUBJECT

During the course, we would like to emphasise the main differences between descriptive and inferential Statistics which are the two main branches of Statistics and we focus on the usage of the important statistical methods in business and economics by using Excel and Geogebra programs. The main topics are the following ratios, central and dispersion figures, association, index numbers, time series by the trends and seasonality and regression analysis.

STUDENT'S TASKS AND PLANNED LEARNING ACTIVITIES:

At the beginning of the lectures or seminars, the students answer the teacher's introductory questions about the actual notions and methods of warming up. At the end of the lessons, they can respond to the most difficult points of the actual topics. During the seminars, the students are active members of the class and they are involved in individual and teamwork. During the course, they solve the tasks by the application of the proper statistical models or methods. After some team works one student of the team shows the solution to the task in front of the group.

It is recommended to see some videos of the Basic Statistics course on Coursera.

EVALUATION OF THE SUBJECT:

The final mark consists of two parts: (50-50 points)

- seminar scores (2 midterm tests, 25-25 points)

- final exam scores (50 points)

Your final mark is given by the addition of your lecture and seminar points if the lecture and seminar results are at least 25-25 points.

Based on these points your final grade depends on the grading table. The total maximum is 100 points.

If your seminar score is less than 25 points then you will be failed without any grade.

If the seminar work is at least 25 points but the lecture part is lower than 25 points then you have to repeat the final exam. (You have got a maximum of two other options to try to pass the exam.)

The final result consists of the points from seminars and lectures and the grading is as follows:

89 -100 5 (excellent)

76 - 88 4 (good)

63 - 75 3 (satisfactory)

50 - 62 2 (pass)

0-49 1 (fail)

If a student earns a high-level result at the end of the semester she or he may get at the end of the semester a good evaluation in written form which could be part of her/his portfolio.

If a student can prove (with a certificate) their passing the Basic Statistics course of Coursera they can get 10 plus points in the final exam.

Offered grade can be given: Yes.

OBLIGATORY READING LIST:

- E.I. Molnár; I.K. Székely; A.O. Csesznák: A. Tick: Statistics Skills, Nemzeti Tankönyvkiadó, 2011
- Neil J. Sankind: Statistics for People Who Hate Statistics, Sage Publications, 2016
- ANDERSON, DAVID R.; SWEENEY, DENNIS J.; WILLIAMS, THOMAS A.; CAMM JEFFREY D.; COCHRAN, JAMES J: ESSENTIAL OF STATISTICS FOR BUSINESS AND ECONOMICS, CENGAGE LEARNING, 2017