UNIVERSITY OF MISKOLC
Faculty of economics
Institute of Economic Theory and Methodology

Syllabus
STATISTICS (GTÜSE1012AB)
Courses in English in full-time BA program
2nd semester, 2023/2024 academic year

Course title: STATISTICS	**Neptun code of course:** GTÜSE1012AB
	Course type: Compulsory
Course coordinator: Beatrix Varga, Ph.D., Associate professor	
Teaching staff involved: Roland Szilágyi, Ph.D., Associate professor	
Recommended semester: 2nd	**Preconditions:** Mathematics for Economic Analysis I.
No. of lessons/week: 2 + 2	**Acknowledgement of course completion:** exam
Credit value: 5	**Type of course:** Lecture and practice

Aim and content of course:
The aim is to introduce the base of quantitative methods to examine the main processes and relations of business and economic life.

Thematic description of course content:

Lectures:

Week/date	Content
16th February	The origin of statistics, the Hungarian Central Statistical Office. Basic definitions.
23th February	Ratio statistics.
1st March	Graphic presentation.
8th March	Frequencies
15th March	Holiday
22nd March	Holiday
29th March	Holiday
5th April	Measures of central tendency (means, mode, median)
12th April	Measures of dispersion (range, IQR, variance, standard dev., coeff. of var.) Percentiles, quartiles, box plot.
19th April	Measures of shape, symmetry, asymmetry
26th April	Index numbers (price index, value index, quantity index)
3rd May	Index numbers (territorial indexes)
10th May	Decomposition, Part 1.
17th May	Decomposition, Part 2.

Seminars:

Week/date	Content
1st	Introduction. Statistical rows.
2nd	Ratio statistics I.
3rd	Ratio statistics II.
4th	Graphic presentation in Excel
5th	Frequencies
6th	Measures of central tendency (means, mode, median)

7th	Measures of dispersion. (range, IQR, variance, standard dev., coeff. of var.) Percentiles, quartiles.
8th	Measures of dispersion. (range, IQR, variance, standard dev., coeff. of var.) Percentiles, quartiles.
9th	Asymmetry. Box plot.
10th	Index numbers I. (price, value, quantity index)
11th	Index numbers (territorial indexes)
12nd	Decomposition – difference decomposition
13rd	Decomposition – ratio decomposition
14th	Complex task solution

Requirements:
Method and evaluation of in-semester assessment:
Participation in at least 70% of the seminars.

Exam requirements:
signature

Completion requirements and evaluation criteria for seminar grades and exams:
Written exam:
0-50: fail
51-60: pass
61-70: satisfactory
71-80: good
81-90: excellent

Other information:
Lecture: A1/128, Friday XXXIII. lecture hall
Seminar: A1/128, Monday 14-16 am

Consultation:
it can be find at the webpage of the Institute of Economic Theory and Methodology
http://gtk.uni-miskolc.hu/gei/faculty

Compulsory literatures:
1. Lecture slides
2. Newbold, Paul: Statistics for business and economics; Upper Saddle River: Pearson Education, cop. 2007
3. Healey, Joseph F.: Statistics: A tool for social research; Belmont: Wadswoth Publ., 1984

Recommended literatures:
1. Rickmers, Albert D.: Statistics, an introduction; New York, McGraw-Hill, 1967

31st January, 2024

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