

*Syllabus***BUSINESS STATISTICS (GTÜSE1012AB)**

Courses in English in full-time BA program

1st semester, 2024/2025 academic year

Course title: BUSINESS STATISTICS	Neptun code of course: GTÜSE1022AB
	Course type: Compulsory
Course coordinator: Dr. Roland Szilágyi Ph.D., Associate professor Ph.D., Teaching staff involved: Dr. Beatrix Varga Ph.D., Associate professor	
Recommended semester: 1 st	Preconditions: Statistics GTÜSE1022AB
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 develop the analytical and decision-making abilities of our students, the ability to recognize the dependence of an effect upon a cause and the essential permanent trends. Students completing this subject should be able to: <ul style="list-style-type: none"> • Demonstrate an understanding of the basic ideas of estimation and hypothesis testing; • Carry out many standard statistical procedures using a statistical computing package; • Fit statistical models to data by both estimating and testing hypotheses about model parameters. 	
Thematic description of course content:	
Lectures and Seminars:	
Week/date	Content
11.09 (Seminar)	Review of Statistics, Excel
17.09 (Lecture)	Statistical inference basic terms
18.09 (Seminar)	University Sports Day (No classes)
24.09 (Lecture)	Hypothesis testing ((One-tailed test)
25.09 (Seminar)	Hypothesis testing ((One-tailed test: expected value)
01.10 (Lecture)	Two sampled hypothesis testing (One-tailed test, two-tailed test)
02.10 (Seminar)	Hypothesis testing (One-tailed proportion, standard deviation)
08.10 (Lecture)	Two sampled hypothesis testing II.
09.10 (Seminar)	Two sampled hypothesis testing (expected value)
15.10 (Lecture)	Nonparametric hypothesis testing (distribution)
16.10 (Seminar)	Two sampled hypothesis testing (proportion, standard deviation)
22.10 (Lecture)	Midterm test I.
23.10 (Seminar)	National holiday (No classes)
29.10 (Lecture)	Holiday declared by Rector (No classes)
30.10 (Seminar)	Statistical dependence – association
05.11 (Lecture)	Analysis of variance
06.11 (Seminar)	Analysis of variance (Eta and Eta sq measures F test)
12.11 (Lecture)	Statistical dependence – Correlation measures
13.11 (Seminar)	Correlation measures

19.11 (Lecture)	Simple linear regression model
20.11 (Seminar)	Simple linear regression model
26.11 (Lecture)	Curve regression Estimation of parameters
27.11 (Seminar)	Curve regression Estimation of parameters
03.12 (Lecture)	Midterm test I.
04.12 (Seminar)	Consultation
10.12 (Lecture)	Early exam
11.12 (Seminar)	Early exam
<p>Requirements: Method and evaluation of in-semester assessment: Participation in at least 70% of the seminars. Reach 40% on the midterm tests. Exam requirements: Signature</p> <p>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</p> <p>Other information: Lecture: A1/128, Tuesday 16.00-17.30 am Seminar: A1/128, Friday 14.00-15.30 am</p> <p>Consultation: it can be find at the webpage of the Institute of Economic Theory and Methodology http://gtk.uni-miskolc.hu/gei/faculty</p>	
<p>Compulsory literatures:</p> <ol style="list-style-type: none"> 1. Lecture slides 2. Newbold, Paul: Statistics for business and economics; Upper Saddle River: Pearson Education, cop. 2007 3. Chris Brooks: Introductory Econometrics for Finance, Cambridge; Second Edition: Chapter 2. 4. Richard A. Defusco, CFA – Dennis W. McLeavey, CFA – Jerald E. Pinto, CFA – David E. Runkley, CFA: Quantitative Investment Analysis, CFA Series; Second Edition: Chapter 6, 7, 8, 10 <p>Recommended literatures:</p>	

01.09.2024

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associate professor