

UNIVERSITY OF MISKOLC
 Faculty of economics
 Institute of Economic Theory and Methodology
 Department of Business Statistics and Forecasting

Schedule
BUSINESS STATISTICS (GTÜSE1022AB)
 Faculty of Economics, BA program
 1st semester, 2025/2026 academic year

Course title: BUSINESS STATISTICS	Neptun code of course: GTÜSE1022AB Course type: Compulsory
Course coordinator: Roland Szilágyi, Ph.D., Associate professor Teaching staff involved: Beatrix Varga, Ph.D., Associate professor Kitti Fodor Ph.D, Assistant Lecturer Dóra Pálné Gecse, Ph.D student	
Recommended semester: 1 st	Preconditions: Statistics
No. of lessons/week: 2 + 2	Acknowledgement of course completion: Exam (Written & Oral)
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.	
Thematic description of course content: Lectures and seminars:	
Week/date	Content
12 September	Review of Statistics, Statistical inference basic terms
19 September	Estimation - expected value, proportion, standard deviation
26 September	Hypothesis testing I. (One-tailed test, two-tailed test) - expected value, proportion, standard deviation
03 October	Hypothesis testing II. (One-tailed test, two-tailed test) - expected value, proportion, standard deviation
10 October	Two sampled hypothesis testing (One-tailed test, two-tailed test) - expected value, proportion, standard deviation Statistical inference with the help of Excel
17 October	Statistical dependence – association (Yule-measure, contingency-table, T and C measures)
24 October	-
31 October	Statistical dependence analysis of variance (Eta and Eta sq measures)
07 November 2023	Practice
14 November 2023	Statistical dependence with the help of Excel
21 November 2023	Correlation measures (covariance, coefficient of correlation, coefficient of rank correlation)
28 November 2023	Simple linear regression model, scatter diagrams
05 December 2023	Curve regression Estimation of parameters
12 December 2023	Correlation, regression with the help of Excel
Requirements:	

Method and evaluation of in-semester assessment:

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Completion requirements and evaluation criteria for seminar grades and exams:

Computer Exam – 50 points

Oral Exam – 40 points

0-50: fail

51-60: pass

61-70: satisfactory

71-80: good

81-90: excellent

Other information:

Lecture: A1/128, Friday 8-10 am

Seminar: A1/128, Friday 10-12 am

Consultation:

it can be find at the webpage of the Institute of Economic Theory and Methodology

<https://gemi.uni-miskolc.hu/consulting>

Compulsory literatures:

1. Petra Petrovics: Exercise Book for Business Statistics
2. Petra Petrovics: SPSS Tutorial and exercise books
3. <https://www.tankonyvtar.hu/>
Quantitative Information Forming Methods 08.modul (TAMOP – 4.1.2-08/1/A-2009-0049) Chapter 1.

Recommended literatures:

1. 1. Chris Brooks: Introductory Econometrics for Finance, Cambridge; Second Edition: Chapter 2.
2. 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
3. Newbold, Paul: Statistics for business and economics; Upper Saddle River : Pearson Education, cop. 2007

1st September, 2025

Roland Szilágyi, Ph.D.
associate professor