

Óbudai Egyetem

Keleti Károly Gazdasági Kar

[GVMGS1AMND] Economic Statistics

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| Institute: | Vállalkozásmenedzsment Intézet (1084 Budapest, Tavaszmező u. 15-17.) | | Credits: | 4 | |
| Training: | Daily | Language: | English | Semester: | 2017/18/1 |
| Courses: | Technical Management BSc; | | | | |
| Responsible professor for course: | Dr. Kóczy Á. László | | Professor(s) | Dr. Nagy Viktor; | |
| Number of classes (week/semester) | Week | Lecture: 2 | Schoolroom practice 2 | Laboratory practice : 0 | Consultation: 0 |
| Félévzárás módja (követelmény): | Exam | | | | |
| Educational goal/Aim of the subject | Upon completion of this course, students should understand the main jargon of Statistics, be able to collect, graph, and critique data, use confidence intervals and hypothesis test, analyze the data with correlation and regression. | | | | |
| Mid-term requirements (tasks, projects, essays, exams, etc.) | Students are required to attend all classes. Should a student accumulate 5 absences (excused and/or unexcused) out of 14 in the semester class, he/she may not receive academic credits. Two tests. Should a student accumulate 50 or less points/percentages in the two tests, an additional chance is given to him/her to meet the requirements, as the prerequisite for the exam. | | | | |
| Educational | Topic | | | | |

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| week (consultation) | | | |
| 1. | The Field of Statistics. Descriptive and Inferential Statistics. Data: Direct Observation, Experiments, Surveys. Measurement Scales. Basic Jargon. | | |
| 2. | Institutions (UN, OECD, EUROSTAT), Stiglitz-Report, Vision 2020. | | |
| 3. | National Accounts. | | |
| 4. | Frequency distributions. Measures of Central Tendency. Measures of dispersion, Measures of Relative Position. | | |
| 5. | Index Numbers. | | |
| 6. | Graphing Categorical and Numerical Data, Charts. | | |
| 7. | Random variable. Binomial Distribution, Normal Distribution, t-Distribution. | | |
| 8. | Sampling Distributions and Central Limit Theorem. | | |
| 9. | Confidence Intervals. | | |
| 10. | Hypothesis Testing (with One Sample). | | |
| 11. | Hypothesis Testing (with Two Samples). | | |
| 12. | Two-way Tables, Checking for Independence. | | |
| 13. | Correlation and Regression. | | |
| 14. | Time Series Analysis. | | |
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| Evaluation (points, grading) | Based on the two tests . Grades in this course are calculated numerically based on total points/percentages of the two tests or the exam. 5 (Excellent): 87 – 100 % 4 (good): 75 – 86 % 3 (satisfactory): 63 – 74 % 2 (pass): 51 – 62 % 1 (fail): 50 or less % | | |
| Term-closing (written/oral exam, etc): | Written examination. | | |
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| Obligatory reading(s) | David Freedman, Robert Pisani, Roger Purves: Statistics (4th Edition), W.W.Norton & Company Inc, 2007 | | |
| Other Guides | Louise Swift and Sally Piff: Quantitative Methods for Business, Management and Finance, Macmillan Education UK, 2014 | | |

Les Oakshott: Essential Quantitative Methods: For Business, Management and Finance. 6th Edition, Palgrave, 2016

Les Oakshott: Quantitative Methods. Palgrave, 2014

Robert Donnelly: The Complete Idiot`s Guide to Statistics. 2nd Edition, Alpha, 2007

Deborah J. Rumsey: Statistics For Dummies. 2nd Edition, Wiley, 2011

Deborah J. Rumsey: Statistics II for Dummies. Wiley, 2009