



SYLLABUS

Academic year 2024-2025

1. Information regarding the programme

1.1. Higher education institution	Universitatea Babeș-Bolyai
1.2. Faculty	Faculty of Business
1.3. Department	Business
1.4. Field of study	Business Administration
1.5. Study cycle	Bachelor
1.6. Study programme / Qualification	Hospitality Business Administration (English)

2. Information regarding the course

2.1. Name of the course	Computer based statistical processing						
2.2. Code	ILE0029						
2.3. Course coordinator	Assoc.Prof. Gabriela Petrușel, PhD						
2.4. Laboratory coordinator	Assoc.Prof. Gabriela Petrușel, PhD						
2.5. Year of study	2	2.6. Semester	I	2.7. Type of evaluation	C	2.8. Type of course	elective

3. Total estimated time (hours/semester of didactic activities)

3.1. Hours per week	3	Of which: 3.2. lecture	0	3.3 seminar/laboratory	2
3.4. Total hours in the curriculum	28	Of which: 3.5. lecture	0	3.6. seminar/laboratory	28
Time allotment:					or e
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					2
Preparation for seminars/labs, homework, papers, portfolios and essays					17
Tutorship					6
Evaluations					2
Other activities:					-
3.7. Total individual study hours					47
3.8. Total hours per semester					75



3.9. Number of ECTS credits	3
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4. Prerequisites (if necessary)

4.1. curriculum	
4.2. competencies	

5. Conditions (if necessary)

5.1. for the course	classroom with computer and projector;
5.2. for the seminar /lab activities	classroom with computer and projector;

6. Specific competencies acquired

Professiona I	<p>C1.3. Data collection, preparation, management and use of IT systems in data processing and analysis in order to solve specific problems of the company</p> <p>C1.4. Analysis of empirical data and results, their evaluation and validation in order to avoid and eliminate interpretation errors</p> <p>C1.5. Elaboration and proposal of projects for the use of empirical data from the economic field in the activity of companies</p>
Transversal competencies	<p>CT1. Implementing ethical principles, norms and values within one's own rigorous, efficient, and responsible strategy of work</p>

7. Objectives of the course (outcome of the acquired competencies)

7.1. General objective of the course	<ul style="list-style-type: none"> acquire knowledge and skills in a domain with wide applicability: applied statistics
7.2. Specific objective of the course	<ul style="list-style-type: none"> The ability to apply statistical techniques in marketing, finance, economics, etc. Learning different ways of organizing, analyzing, presenting and interpreting statistical data; Learning the main parameters characterizing a statistical series and understand their importance in the study series. Understanding the concepts of estimator and statistical hypothesis; Learning techniques for analyzing the relationship between statistical variables; Learning techniques for analysis of time series;

8. Content



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TRADITIO ET EXCELLENTIA

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8.2. Laboratory	Teaching method	Remarks
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1. Introductio to Statgraphics Centurion XVI	interactive discussion case studies	<ul style="list-style-type: none"> DataBook Entering data Saving the work
2. Describe Menu	interactive discussion case studies	<ul style="list-style-type: none"> Categorical Data. Tabulation Numeric Data. One Variable Analysis Categorical Data. Crosstabulation Creating Plots
3. Describe Menu	interactive discussion case studies	<ul style="list-style-type: none"> Summary Statistics
4. Describe Menu	interactive discussion case studies	<ul style="list-style-type: none"> Confidence Intervals. Estimation of the mean. Confidence Intervals. Estimation of the proportion. Sample Size Determination
5. Describe Menu	interactive discussion case studies	<ul style="list-style-type: none"> Confidence Intervals. Estimation of the difference between means.
6. Revision		<ul style="list-style-type: none">
7. Describe Menu	interactive discussion case studies	<ul style="list-style-type: none"> Hypothesis tests for mean Hypothesis tests for proportion
8. Describ Menu. Co,pare Menu	interactive discussion case studies	<ul style="list-style-type: none"> Hypothesis Tests Two Samples Comparison Paired Samples Comparison
9. Compare Menu. ANOVA	interactive discussion case studies	<ul style="list-style-type: none"> One-Way ANOVA Multifactor ANOVA
10.Describe Menu	interactive discussion case studies	<ul style="list-style-type: none"> Crosstabulation. Chi-squared test χ^2.
11.Relate Menu	interactive discussion case studies	<ul style="list-style-type: none"> Simple regression
12.Relate Menu	interactive discussion case studies	<ul style="list-style-type: none"> Multiple regression
13.Relate Menu	interactive discussion	<ul style="list-style-type: none"> Multiplicative Regression Exponential Regression



	whole semester		
10.6 Minimum performance standards			
<ul style="list-style-type: none">➤ Knowledge of the fundamental concepts and their applications in examples;➤ The economic interpretation of the results.			

Date
02.04.2024

Course coordinator
Gabriela PETRUȘEL,
PhD

Seminar coordinator
Gabriela PETRUȘEL, PhD

Date of approval
17.04.2024

Head of department
Cristian Ioan CHIFU, PhD