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# **SYLLABUS**

## Academic year 2024-2025

1. Information regarding the programme

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1.1. Higher education institution	Universitatea Babeş-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 /	Hospitality Business Administration (English)
Qualification	Trospitantly Dusiness Administration (English)

2. Information regarding the course

2.1. Name of the	ie	Comput	Computer based statistical processing				
2.2. Code	2.2. Code ILE0029						
2.3. Course coordinator Assoc.Prof. Gabriela Petruşel, PhD							
2.4. Laboratory coordinator A			Assoc.Prof. Gabriel	a Pet	truşel, PhD		
2.5. Year of	2	2.6.	I	2.7. Type of	C	2.8. Type of	elective
study	4	Semester	I	evaluation	C	course	elective

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

	area cirre (iroare	700111	CStCI OI diddetic de	01 1 101		
3.1. Hours per w	eek	3	Of which: 3.2.	0	3.3	2
			lecture		seminar/laboratory	
3.4. Total hours	in the	28	Of which: 3.5.	0	3.6.	28
curriculum		20	lecture	U	seminar/laboratory	20
Time allotment:						or
						e
Learning using n	nanual, course s	uppo	rt, bibliography, co	urse	notes	20
Additional documentation (in libraries, on electronic platforms, field					2	
documentation)						
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	





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## 3.9. Number of ECTS credits

3

4. Prerequisites (if necessary)

4.1. curriculum	
4.2. competencies	

### **5. Conditions** (if necessary)

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

6. Specific competencies acquired

	pecnic competencies acquired
Professiona l	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 C1.4. Analysis of empirical data and results, their evaluation and validation in order to avoid and eliminate interpretation errors C1.5. Elaboration and proposal of projects for the use of empirical data from the economic field in the activity of companies
Transversal competencies	CT1. Implementing ethical principles, norms and values within one's own rigorous, efficient, and responsible strategy of work

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

<u> </u>	(caseeine of the acquirea competencies)
7.1. General objective of the	acquire knowledge and skills in a domain with wide
course	applicability: applied statistics
7.2. Specific objective of the course	<ul> <li>The ability to apply statistical techniques in marketing, finance, economics, etc.</li> <li>Learning different ways of organizing, analyzing, presenting and interpreting statistical data;</li> <li>Learning the main parameters characterizing a statistical series and understand their importance in the study series.</li> <li>Understanding the concepts of estimator and statistical hypothesis;</li> <li>Learning techniques for analyzing the relationship between statistical variables;</li> <li>Learning techniques for analysis of time series;</li> </ul>

#### 8. Content





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8.2. Laboratory	Teaching method	Remarks
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		T
1. Introductio to Statgraphics	interactive	DataBook
Centurion XVI	discussion	Entering data
	case studies	Saving the work
	interactive	Categorical Data. Tabulation
	discussion	Numeric Data. One Variable
2. Describe Menu	case studies	Analysis
		• Categorical Data. Crosstabulation
		Creating Plots
	interactive	
3. Describe Menu	discussion	Summary Statistics
S. Bescribe Plant	case studies	Summary Statistics
	interactive	• Confidence Intervals.
	discussion	Estimation of the mean.
4. Describe Menu	case studies	• Confidence Intervals.
	cuse studies	Estimation of the proportion.
		Sample Size Determination
	interactive	• Confidence Intervals.
5. Describe Menu	discussion	Estimation of the difference
	case studies	between means.
6. Revision		•
	interactive	I I mothodic toots for moon
7. Describe Menu	discussion	<ul><li>Hypothesis tests for mean</li><li>Hypothesis tests for proportion</li></ul>
	case studies	11ypothesis tests for proportion
	interactive	Hypothesis Tests
8. Describ Menu. Co,pare Menu	discussion	Two Samples Comparison
_	case studies	<ul> <li>Paired Samples Comparison</li> </ul>
	interactive	0 111 1110111
9. Compare Menu. ANOVA	discussion	One-Way ANOVA     No. 14:50 at an ANOVA
-	case studies	Multifactor ANOVA
	interactive	
10.Describe Menu	discussion	• Crosstabulation. Chi-squared
	case studies	test $\chi^2$ .
	interactive	
11.Relate Menu	discussion	Simple regression
	case studies	
	interactive	
12.Relate Menu	discussion	Multiple regression
12.101000 1:10110	case studies	Transpio rogrossion
13.Relate Menu	interactive	Multiplicative Regression
10.1101000 1.10110	discussion	• Exponential Regression
	41304331011	





		case studies	•	Logarithmic X Regression Polinomial Regression
14.Project presentation		interactive discussion		
Bibliograf ie	on User Manua	al		

- 9. Corroborating the content of the course with the expectations of the epistemic community, professional associations and representative employers within the field of the program
- The laboratory content is in correspondence with what is done in other universities in the country and abroad.
- To adapt to the market demands of the contents meetings were held with representatives of the business community.

#### 10. Evaluation

- The same evaluation criteria hold for all exams sessions;
- In order to be able to cumulate the points obtained during the semester, it is mandatory to obtain minimum 5 (five) in the final exam.

Type of activity	10.1 Evaluation	10.2 Evaluation	10.3 Share in
	criteria	methods	the grade (%)
10.5 Laboratory	<ul> <li>correct logical and coherent application of the concepts learned</li> <li>logical and accurate</li> </ul>	Report	60%
	explanation and interpretation of the results;  the ability to apply concepts learned in practice  correct logical and coherent application of the concepts learned  economic explanation of the results;  interest in the individual	Final test	40%
	preparation throughout the		





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whole semester

10.6 Minimum performance standards

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

Head of department

17.04.2024

Cristian Ioan CHIFU, PhD