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SYLLABUS

Academic year 2023-2024

1. Information regarding the programme

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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	LE0029				
2.3. Course coordinator			ssoc.Prof. Gabriela Pet	rușel	, PhD	
2.4. Laboratory coordinator Assoc.Prof. Gabriela Petrușel, PhD						
2.5. Year of study 2 2.6.	Semester I	II	2.7. Type of evaluation	С	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	hours in the curriculum 28 Of which: 3.5. lecture 0 3.6. seminar/laboratory				
Time allotment:					ore
Learning using manual, course support	, biblic	ography, course notes			20
Additional documentation (in libraries,	on ele	ectronic platforms, field	l docu	mentation)	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

4. Prerequisites (if necessary)

4.1. curriculum	
4.2. competencies	

5. Conditions (if necessary)

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

classroom with computer and projector;

6. Specific competencies acquired

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ent,

7. Objectives of the course (outcome of the acquired 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	 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

5. 50mm				
8.2. Laboratory	Teaching method	Remarks		
Introductio to Statgraphics Centurion XVI	interactive discussion case studies	DataBookEntering dataSaving the work		
2. Describe Menu	interactive discussion case studies	 Categorical Data. Tabulation Numeric Data. One Variable Analysis Categorical Data. Crosstabulation Creating Plots 		





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	interactive	
3. Describe Menu	discussion	Summary Statistics
	case studies	
	interactive	Confidence Intervals. Estimation of the
	discussion	mean.
4. Describe Menu	case studies	Confidence Intervals. Estimation of the
		proportion.
		Sample Size Determination
	interactive	Confidence Intervals. Estimation of the
5. Describe Menu	discussion	difference between means.
	case studies	4
6. Revision		•
	interactive	- Urmothogic tosts for man
7. Describe Menu	discussion	Hypothesis tests for meanHypothesis tests for proportion
	case studies	Trypothesis tests for proportion
	interactive	Hypothesis Tests
8. Describ Menu. Co,pare Menu	discussion	Two Samples Comparison
	case studies	Paired Samples Comparison
	interactive	
9. Compare Menu. ANOVA	discussion	One-Way ANOVA
•	case studies	Multifactor ANOVA
	interactive	
10. Describe Menu	discussion	 Crosstabulation. Chi-squared test χ².
	case studies	or obstationaries and equation cost X.
	interactive	
11. Relate Menu	discussion	Simple regression
Tr. Relace Mena	case studies	5 Shirple regression
	interactive	
12. Relate Menu	discussion	Multiple regression
12. Relate Mellu	case studies	• Multiple regression
	interactive	Multiplicative Pegression
	discussion	Multiplicative RegressionExponential Regression
13. Relate Menu		Logarithmic X Regression
	case studies	Polinomial Regression
	interactive	- 1 omiomai regi ession
14. Project presentation	discussion	
Bibliografie 1. Statgraphics Centurion		
Bibliografie 1. Statgraphics Centurion	osei mailuai	

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





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- 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 criteria 10.2 Evaluation methods 10.3 Share in the grade (%) 10.5 Laboratory • correct logical and coherent application of the concepts learned • logical and accurate 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 preparation throughout the whole semester	obtain minin	ium 5 (five) in the final exam.		
correct logical and coherent application of the concepts learned logical and accurate 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 preparation throughout the whole	Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	
coherent application of the concepts learned logical and accurate 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 preparation throughout the whole				grade (%)
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 preparation throughout the whole	10.5 Laboratory	coherent application of the concepts learned logical and accurate explanation and	Report	60%
 correct logical and coherent application of the concepts learned economic explanation of the results; interest in the individual preparation throughout the whole 		results; • the ability to apply concepts learned in	Final test	40%
of the results; interest in the individual preparation throughout the whole		coherent application of the concepts		
individual preparation throughout the whole		of the results;		
		individual preparation throughout the whole		

10.6 Minimum performance standards

- Knowledge of the fundamental concepts and their applications in examples;
- The economic interpretation of the results.

Date 29.09.2023

Course coordinator Gabriela PETRUȘEL, PhD Seminar coordinator Gabriela PETRUŞEL, PhD

Date of approval 11.10.2023

Head of department Cristian Ioan CHIFU, PhD