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SYLLABUS Academic year 2024-2025

1. Information regarding the program

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1.1. Higher education institution	Babeş-Bolyai University
1.2. Faculty	Business
1.3. Department	Business Administration
1.4. Field of study	Business Administration
1.5. Study cycle	Master
1.6. Study program / Qualification	Business Administration in Hospitality and International Tourism

2. Information regarding the course

2.1. Name of the course	Forecastir	Forecasting in Tourism				
2.2. Code	IME0035	IME0035				
2.3. Course coordinator	Professor Cristian Chifu, PhD					
2.4. Seminar coordinator	r Professor Cristian Chifu, PhD					
2.5. Year of study 1 2.6	5. Semester	II	2.7. Type of evaluation	Е	2.8. Type of course	compulsory

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

3.1. Hours per week	3	Of which: 3.2. lecture	2	3.3 seminar/laboratory	1
3.4. Total hours in the curriculum	42	Of which: 3.5. lecture	28	3.6. seminar/laboratory	14
Time allotment:	-				ore
Learning using manual, course support	, biblio	ography, course notes			28
Additional documentation (in libraries,	on ele	ectronic platforms, field	l doc	umentation)	28
Preparation for seminars/labs, homew	ork, pa	apers, portfolios and es	says		28
Tutorship					2
Evaluations					4
Other activities:					18
3.7. Total individual study hours					108
3.8. Total hours per semester					150
3.9. Number of ECTS credits					

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;





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6. Specific competencies acquired

Professional competencies	C5 drawing up various reports/ studies useful for the running of a hospitality/ tourism unit and the provision of consultancy in the field
Transversal competencies	CT1 use of professional ethics standards and values specific to the field of hospitality and tourism

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

7.1. General objective of the course	• Learning the econometrics principles and understanding its principles as a tool for quantitative analysis
7.2. Specific objective of the course	 the ability to use the statistical and econometrical language and acquire knowledge and skills in an area with a very large application at macro and micro level: econometrics develop skills of data analysis that describes an economic phenomenon development of communication skills in econometric language.

8. Content

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8.1	. Course	Teaching method	Remarks		
1.	Introductory course – research methods in tourism	interactive discussion, problematization	1 course		
2.	 Data analysis in tourism and hospitality The nature of data in tourism and hospitality Estimators Hypothesis testing Comparison of samples 	interactive discussion	1 course		
3.	 Time series analysis Component factors of time series Analysis of the evolution of a time series Smoothing methods – moving average method, exponential smoothing 	interactive discussion	1 course		
4.	 The linear regression model: two-variable model Population regression function Sample regression function Estimation of parameters: The method of ordinary least squares Hypothesis testing Coefficient of correlation. Coefficient of determination Forecasting 	interactive discussion	1 course		





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	 Considerations on the ordinary least 		
	squares method		
5.	Multiple linear regression		
	The three-variable linear regression		
	model		
	Estimation of parameters		
	Hypothesis testing in multiple regression		
	• Coefficient of multiple correlation.	interactive	1 course
	Coefficient of determination	discussion	
	 Removing explanatory variables from the model 		
	 Adding explanatory variables to the 		
	model		
	• Forecasting		
6.	Other types of regression		
	 Models that reduce to the simple linear 		
	model	interactive	
	 Choosing the best model 	discussion	1 course
	 Models reduced to multiple linear model 		
	 Least squares method with restrictions 		
7.	Least-Squares Trend Fitting and Forecasting		
	 The Linear Trend Model 		
	 The Quadric Trend Model 	interactive	1 course
	 The exponential Trend Model 	discussion	1 course
	 Model Selection 		
	The principle of parsimony		
8.	Time series forecasting of seasonal data	interactive	
	 Least square forecasting with monthly or 	discussion	1 course
	quarterly data		
9.	Regression on dummy explanatory variables	interactive	1
	ANOVA modelsANCOVA models	discussion	1 course
	ANCOVA IIIoueis	interactive	
10.	Logit and probit models	discussion	1 course
11.	Dynamic economic models		
	Autoregressive models	interactive	1 course
	 Distributed lag models 	discussion	
12.	Autocorrelation		
	The nature of autocorrelation		
	 Consequences of autocorrelation 	interactive	1 course
	 Detection of autocorrelation 	discussion	
	 Remedial measures 		
13.	Models with simultaneous equations	internació :	
	 Estimating models with simultaneous 	interactive discussion	1 course
	equations	uiscussiuli	





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• The pr	oblem of identification	:		
14. Review and Project Presentation		interactive discussion	1course	
Bibliography	 Bereson, M.L., Levine, D.M., Krahall, NJ, 2009. Gujarati, D., Porter, D.C., Basic Ruud, P.A., Classical Economet Wooldridge, J.M., Introductory 2000. Reader_Forecasting_2024_202 	Econometrics. New Yric Theory, Oxford U Econometrics, South	York: McGraw-Hill, 2009 niversity Press, 2000. n-Western College Publishing,	
8.2. Seminar		Teaching method	Remarks	
1. Introducto tourism	ory course – research methods in	interactive discussion, problematization	1 course	
The na hospitaHypoth	sis in tourism and hospitality ture of data in tourism and ality Estimators nesis testing arison of samples	interactive discussion	1 course	
 3. Time series analysis Component factors of time series Analysis of the evolution of a time series Smoothing methods – moving average method, exponential smoothing 		interactive discussion	1 course	
 4. The linear regression model: two-variable model Population regression function Sample regression function Estimation of parameters: The method of ordinary least squares Hypothesis testing Coefficient of correlation. Coefficient of determination Forecasting Considerations on the ordinary least squares method 		interactive discussion	1 course	
5. Multiple line of the model of Estima of Hypoth Coeffice Coeffice	near regression ree-variable linear regression ation of parameters nesis testing in multiple regression cient of multiple correlation. cient of determination ring explanatory variables from	interactive discussion	1 course	





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Adding explanatory variables to the modelForecasting		
 6. Other types of regression Models that reduce to the simple linear model Choosing the best model Models reduced to multiple linear model Least squares method with restrictions 	interactive discussion	1 course
 7. Least-Squares Trend Fitting and Forecasting The Linear Trend Model The Quadric Trend Model The exponential Trend Model Model Selection The principle of parsimony 	interactive discussion	1 course
 8. Time series forecasting of seasonal data Least square forecasting with monthly or quarterly data 	interactive discussion	1 course
 9. Regression on dummy explanatory variables ANOVA models ANCOVA models 	interactive discussion	1 course
10. Logit and probit models	interactive discussion	1 course
11. Dynamic economic modelsAutoregressive modelsDistributed lag models	interactive discussion	1 course
 12. Autocorrelation The nature of autocorrelation Consequences of autocorrelation Detection of autocorrelation Remedial measures 	interactive discussion	1 course
 13. Models with simultaneous equations Estimating models with simultaneous equations The problem of identification 	interactive discussion	1 course
14. Review and Project Presentation	interactive discussion	1course
 Bereson, M.L., Levine, D.M., Krehbiel, T.C., Basic Business Statistics, Pearson, Prent Hall, NJ, 2009. Gujarati, D., Porter, D.C., Basic Econometrics. New York: McGraw-Hill, 2009 Ruud, P.A., Classical Econometric Theory, Oxford University Press, 2000. Wooldridge, J.M., Introductory Econometrics, South-Western College Publishing, 2000. Reader_Forecasting_2024_2025 (Course's Teams class) 		





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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 course 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.

obtain minimum 5 (five) in the final exam.						
Type of activity	10.1 Evaluation	10.2 Evaluation	10.3 Weight in the final			
Type of activity	criteria	method	grade			
10.4. Course	 correct logical and coherent application of the concepts learned logical and accurate explanation and interpretation of the results; 	final exam	50%			
10.5. Seminar/lab activities	 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 	applicative activities (projects, essays, reports, etc.) the active participation in seminars and solving tasks during the semester	30% 20%			
10.6. Minimum performance	e standards					

- Knowledge of the fundamental concepts and their applicate examples.
- The economic interpretation of the results.

Date Signature of course coordinator
02.04.2024 Ioan Cristian CHIFU, PhD

Signature of seminar coordinator Ioan Cristian CHIFU, PhD

Date of approval 17.04.2024

Signature of the Head of department Ioan Cristian CHIFU, PhD