



Site: tbs.ubbcluj.ro

SYLLABUS Academic year 2022-2023

1. Information regarding the programme

1: Information regarding the program	inc
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 programme / Qualification	Business Administration in Hospitality and International
	Tourism

2. Information regarding the course

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

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

et 10tal estillated tille (110al)					
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	ort, bibliogi	raphy, course notes			28
Additional documentation (in librari	es, on elect	ronic platforms, field doc	cumen	tation)	28
Preparation for seminars/labs, homework, papers, portfolios and essays				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				6	

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;





Site: tbs.ubbcluj.ro

6. Specific competencies acquired

Professional competencies	At the end of this course students must be able to: • use the econometrics principles and understand its principles as a quantitative analysis tool; • communicate in econometric "language" • to forecast values for hotel activity indicators such as the demand;
Transversal competencies	 applying rigorous and efficient work rules, evidence of responsible attitudes and teaching science to optimally creative potential of their own specific situations with the principles and rules of professional ethics; an efficient and effective organized team activities; effective use of information sources and communication resources and training assistance, both in Romanian and in a foreign language;

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

8.1. Course	Teaching method	Remarks
Introduction in econometric.	interactive	1 course
The methodology of econometrics	discussion	
A short review of some statistical concepts	interactive	1 course
 Basic information's (elements, 	discussion	
population, sample, data, variables)		
 Working with samples 		
 From sample to population (estimators, 		
hypothesis testing)		
Time series analysis	interactive	1 course
 Component factors of time series 	discussion	
 Smoothing an annual time series (moving 		
averages method, exponential smoothing)		
The linear regression model: two-variable model	interactive	1 course
 Population regression function 	discussion	
 Sample regression function 		
• Estimation of parameters: The method of		
ordinary least squares		
 Hypothesis testing 		





Site: tbs.ubbcluj.ro

	T	T
Coefficient of correlation. Coefficient of		
determination		
 Forecasting 		
 Considerations on the ordinary least 		
squares method		
Multiple regression	interactive	1 course
 The three-variable linear regression 	discussion	
model		
 Estimation of parameters 		
 Hypothesis testing in multiple regression 		
 Coefficient of multiple correlation. 		
Coefficient of determination		
 Removing explanatory variables from the 		
mdel		
Adding explanatory variables to the		
model		
Forecasting		
Functional forms of regression models	interactive	2 courses
• Log-linear model (multiplicative)	discussion	
Semilog model (exponential)		
• Lin-log model (logarithmic X)		
Reciprocal model		
Multiple log-linear model		
Polynomial model		
Least-Squares Trend Fitting and Forecasting	interactive	1 course
The Linear Trend Model	discussion	
The Quadric Trend Model		
The exponential Trend Model		
 Model Selection Using First, Second and 		
Percentage Difference		
Time series forecasting of seasonal data	interactive	1 course
Least square forecasting with monthly or	discussion	
quarterly data		
Regression on dummy explanatory variables	interactive	1 course
ANOVA models ANGOVA	discussion	
ANCOVA models		
Autocorrelation	interactive	1 course
The nature of autocorelation	discussion	
Consequences of autocorelation		
Detection of autocorelation		
Remedial measures		1
Dynamic economic models	interactive	1 course
Autoregressive models	discussion	
Distributed lag models	1	
Revision	interactive	1 course
	discussion	





Site: tbs.ubbcluj.ro

Project Presenta	ation	interactive	1course
discussion			
	Hall, NJ, 2009.		Business Statistics, Pearson, Prentice
Bibliography	 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, 20 Reader_Forecasting_2017 (by e-mail) 		niversity Press, 2000.

	_	
8.2. Seminar	Teaching method	Remarks
Introduction in econometric.	interactive	1 seminar
The methodology of econometrics	discussion	
A short review of some statistical concepts	interactive	1 seminar
 Basic information's (elements, 	discussion	
population, sample, data, variables)		
 Working with samples 		
From sample to population (estimators,		
hypothesis testing)		
Time series analysis	interactive	1 seminar
 Component factors of time series 	discussion	
 Smoothing an annual time series (moving 		
averages method, exponential smoothing)		
The linear regression model: two-variable model	interactive	2 seminar
 Population regression function 	discussion	
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		
Multiple regression	interactive	1 seminar
The three-variable linear regression	discussion	
model		
 Estimation of parameters 		
Hypothesis testing in multiple regression		
Coefficient of multiple correlation.		
Coefficient of determination		
Removing explanatory variables from the		
mdel		
 Adding explanatory variables to the 		
model		
 Forecasting 		





Site: tbs.ubbcluj.ro

Functional form	ns of regression models	interactive	2 seminars
	ear model (multiplicative)	discussion	2 Semmars
	g model (exponential)		
	model (logarithmic X)		
-	ocal model		
	le log-linear model		
	mial model		
	Frend Fitting and Forecasting	interactive	1 seminar
•	near Trend Model	discussion	1 Semmai
		uiscussioii	
_	adric Trend Model		
	ponential Trend Model		
	Selection Using First, Second and		
	tage Difference	interactive	1
	recasting of Seasonal Data		1 seminar
	quare Forecasting with Monthly	discussion	
	rterly Data	•	
Regression on dummy explanatory variables • ANOVA models		interactive	1 seminar
		discussion	
	VA models		
Autocorrelation		interactive	1 seminar
	ture of autocorelation	discussion	
	uences of autocorelation		
	on of autocorelation		
	ial measures		
Dynamic econo		interactive	1 seminar
	gressive models	discussion	
Distrib	uted lag models		
Revision		interactive	1 seminar
		discussion	
		Krehbiel, T.C., Basic	Business Statistics, Pearson, Prentice
	Hall, NJ, 2009.		
Bibliography	2. Gujarati, D., Porter, D.C., Bas		
Dionography	3. Ruud, P.A., Classical Econom	5 ·	•
			Western College Publishing, 2000.
	5. Reader_Forecasting_2017 (by	e-mail)	

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;





Site: tbs.ubbcluj.ro

• 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.

	T		
Type of activity	10.1 Evaluation criteria		10.3 Pondere din nota finală
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%
10.6. Minimum performance standards			

Knowledge of the fundamental concepts and their applicate examples;

The economic interpretation of the results.

Date Signature of course coordinator

02.05.2022 Ioan Cristian CHIFU, PhD Ioan Cristian CHIFU, PhD

Date of approval Signature of the Head of department

22.05.2022 Ioan Cristian CHIFU, PhD