

Syllabus

1. Programme information

1.1. Institution	THE BUCHAREST UNIVERSITY OF ECONOMIC STUDIES
1.2. Faculty	Business Administration in Foreign Languages
1.3. Departments	Department of Business Administration in foreign languages (UNESCO chair)
1.4. Field of study	Business Administration
1.5. Cycle of studies	Master Studies
1.6. Education type	Full-time
1.7. Study programme	Business Administration
1.8. Language of study	English
1.9. Academic year	2019-2020

2. Information on the discipline

2.1. Name	Research methods for business administration								
2.2. Code	19.0254IF2.1-0003								
2.3. Year of study	2	2.4. Semester	1	2.5. Type of assessment	Exam	2.6. Status of the discipline	O	2.7. Number of ECTS credits	7
2.8. Leaders	S(S)	lect.univ.dr. CARAIANI Petre					Petre.Caraiani@rei.ase.ro		
	S(S)	cadrul did. asoc. HARDLE WOLFGANG KARL							
	C(C)	lect.univ.dr. BUŞU E MIHAIL					mihail.busu@man.ase.ro		

3. Estimated Total Time

3.1. Number of weeks	14.00		
3.2. Number of hours per week	3.00	of which	
		C(C)	1.00
		S(S)	2.00
3.3. Total hours from curriculum	42.00	of which	
		C(C)	14.00
		S(S)	28.00
3.4. Total hours of study per semester (ECTS*25)	175.00		
3.5. Total hours of individual study	133.00		
<i>Distribution of time for individual study</i>			
Study by the textbook, lecture notes, bibliography and student's own notes	30.00		
Additional documentation in the library, on specialized online platforms and in the field	43.00		
Preparation of seminars, labs, assignments, portfolios and essays	20.00		
Tutorials	20.00		
Examinations	15.00		
Other activities	5.00		

4. Prerequisites

4.1. of curriculum	course of applied mathematics in economics econometrics course statistical course
4.2. of competences	basic notions in mathematics, econometrics, statistics

5. Conditions

for the C(C)	power point presentation, explanations at the table
for the S(S)	explanations at the table, working at the computer

6. Acquired specific competences

	C3	Design and redesign of complex business processes in accordance with the principles of efficiency and ethics.
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7. Objectives of the discipline

7.1. General objective	The objective of this course is to communicate, analyze and apply a number of quantitative methods to support the decision process at the level of the management of a company. For each of these premises, both implications and importance and limits are described. Theoretical exposures are supported by certain case studies and applications.
7.2. Specific objectives	This course offers students enrolled in the deep research master's degree a preparation in the direction of the most modern quantitative methods applied in economic research. Among the methods presented in this course are nonlinear modeling.

8. Contents

8.1. C(C)		Teaching/Work methods	Recommendations for students
1	Causal and non-causal models	interacting with students is the teaching rule. The lectures are focused on use of support electronic, whiteboard and of different markers colors	idem
2	Micro data structures: data from observations, data from social experiments, data from natural experiments	idem	idem
3	Linear models: regression and loss function, weighted method of the smallest squares, poorly specified models, instrumental variables, practical considerations	idem	idem
4	The maximum likelihood method and the nonlinear method of the smallest squares	idem	idem
5	Generalized method of moments and estimation of econometric equations systems	idem	idem
6	Hypothesis testing: Wald test, grade 1 error and grade 2 error for evaluation of a statistical test, evaluation by Monte Carlo simulations of the power of the degree 1 and grade 2 of a statistical test	idem	idem
7	Specifying a statistical test and selecting a model: testing a model for defective specification, diagnoses related to a specified model, Hausman test, practical considerations	idem	idem
8	Semi-parametric methods: kernel density estimation, semi-parametric regression, derivations of the mean and dispersion of kernel estimators	idem	idem
9	Numerical optimization: general considerations, specific methods, practical considerations	idem	idem
10	Methods based on numerical simulations: bootstrap, simulated annealing, genetic algorithms	idem	idem
11	Applications of intelligent techniques in economic modeling	idem	idem
12	Getting started with panel data models	idem	idem
13	Nonlinear panel models	idem	idem
14	Conducting questionnaires by collecting data in stratified or type cluster: questionnaire elaboration, endogenous stratification, hierarchical linear models, complex questionnaires	idem	idem
<p><i>Bibliography</i></p> <p>- Baltagi, B., Econometric Analysis of pane data, Wiley, NY, 2009, Statele Unite ale Americii</p>			

8.2. S(S)		Teaching/Work methods	Recommendations for students
1	Se lucreaza individual si colectiv. Se utilizeaza calculatorul		It is recommended to go through course notes
2	idem	idem	idem
3	idem	idem	idem
4	idem	idem	idem
5	idem	idem	idem
6	idem	idem	idem
7	idem	idem	idem
8	idem	idem	idem
9	idem	idem	idem
10	idem	idem	idem
11	idem	idem	idem
12	idem	idem	idem
13	idem	idem	idem
14	idem	idem	idem

Bibliography
- Baltagi,B,, Econometric Analysis of pane data, Wiley, NY, 2009, Tajikistan

9. Corroboration of the contents of the discipline with the expectations of the representatives of the epistemic community, of the professional associations and representative employers in the field associated with the programme

Discussion of the content of the discipline with specialists from the Institute of Economic Forecasting and with representatives of the local environment.
business

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. C(C)	Periodical test	test	30.00
10.2. S(S)	Periodical test	test	10.00
10.3. Final assessment	Written exam	Exeman	60.00
10.4. Modality of grading	Whole notes 1-10		
10.5. Minimum standard of performance	Grade 5		

Date of listing,
06/06/2020

Signature of the discipline leaders,

Date of approval in the
department

Signature of the Department Director,