

Syllabus

1. Programme information

1.1. Institution	THE BUCHAREST UNIVERSITY OF ECONOMIC STUDIES
1.2. Faculty	International Business and Economics
1.3. Departments	Department of Statistics and Econometrics
1.4. Field of study	Applied modern languages
1.5. Cycle of studies	Licence
1.6. Education type	Full-time
1.7. Study programme	Applied Modern Languages
1.8. Language of study	Romanian, English, French
1.9. Academic year	2022-2023

2. Information on the discipline

2.1. Name	Research Methods in Social Sciences: Quantitative Research								
2.2. Code	22.0223IF2.2-0001								
2.3. Year of study	2	2.4. Semester	2	2.5. Type of assessment	Exam	2.6. Status of the discipline	O	2.7. Number of ECTS credits	4
2.8. Leaders	C(C)	prof.univ.dr. ROMAN Monica Mihaela					monica.roman@csie.ase.ro		
	S(S)	prof.univ.dr. ROMAN Monica Mihaela					monica.roman@csie.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)	100.00
3.5. Total hours of individual study	58.00
<i>Distribution of time for individual study</i>	
Study by the textbook, lecture notes, bibliography and student's own notes	10.00
Additional documentation in the library, on specialized online platforms and in the field	20.00
Preparation of seminars, labs, assignments, portfolios and essays	10.00
Tutorials	5.00
Examinations	13.00
Other activities	0.00

4. Prerequisites

4.1. of curriculum	Basic concepts of Calculus and Algebra
4.2. of competences	Basic competences of Calculus and Excel usage

5. Conditions

for the C(C)	Computer equipped with MS Windiows, Excel, internet, Zoom application, as well as video and audio facilities
for the S(S)	Computer equipped with MS Windiows, Excel, internet, Zoom application, as well as video and audio facilities

6. Acquired specific competences

PREFESSIONAL	C6	Communication in multilingual professional contexts requiring linguistic and cultural integration, negotiation and mediation;
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7. Objectives of the discipline

7.1. General objective	Discipline develops critical thinking and understanding of reality through quantitative analysis
7.2. Specific objectives	Representation of statistical data and their description. Understanding the correlations between economic and social phenomena

8. Contents

8.1. C(C)		Teaching/Work methods	Recommendations for students
1	Introduction: objectives, bibliographic sources, requirements and minimum standards of continuous and final assessment Basic concepts used in statistics	Lecture	The theme, structure and bibliographic references are presented at the beginning of the lecture
2	Data gathering process and primary processing activities <ul style="list-style-type: none"> • Data Sources • Type of observation errors and control techniques • Statistical data types • Grouping statistical data • Presentation and statistical representation of data 	Lecture	The theme, structure and bibliographic references are presented at the beginning of the lecture
3	Descriptive statistics for (single variable) data sets: <ul style="list-style-type: none"> • Central Tendency • Variability • Distribution form 	Lecture	The theme, structure and bibliographic references are presented at the beginning of the lecture
4	Descriptive statistics for (single variable) data sets: <ul style="list-style-type: none"> • Central Tendency • Variability • Distribution form 	Lecture	The theme, structure and bibliographic references are presented at the beginning of the lecture
5	Descriptive statistics for (two variables) data sets: <ul style="list-style-type: none"> • Parametric Correlation • Nonparametric Correlation 	Lecture	The theme, structure and bibliographic references are presented at the beginning of the lecture
6	Time series <ul style="list-style-type: none"> • Typology, features • Descriptive statistics • Components of a time series • Estimate the trend component using simple methods 	Lecture	The theme, structure and bibliographic references are presented at the beginning of the lecture
7			
<p>Bibliography</p> <ul style="list-style-type: none"> - Mitrut, C., Serban, D., Mitrut A., Statistics for bussiness administration, ASE, Bucuresti, 2003, România - Voineagu V., Titan E., Ghita S., Boboc C., Todose D., Statistică: Baze teoretice și aplicații, Economică, București, 2007, România 			

8.2. S(S)		Teaching/Work methods	Recommendations for students
1	Grouping, presenting and representing data using specialized software packages	Interactive seminar	The solution of the applications will be done, including, by using the techniques implemented by the available specialized software packages (EXCEL-Data Analysis, SPSS)
2	Descriptive statistics for (single variable) data sets: <ul style="list-style-type: none"> • Central Tendency • Variability • Distribution form 	Interactive seminar	The solution of the applications will be done, including, by using the techniques implemented by the available specialized software packages (EXCEL-Data Analysis, SPSS)
3	Correlation techniques <ul style="list-style-type: none"> - parametric correlation - Nonparametric correlation 	Interactive seminar	The solution of the applications will be done, including, by using the techniques implemented by the available specialized software packages (EXCEL-Data Analysis, SPSS)
4	Correlation techniques <ul style="list-style-type: none"> - parametric correlation - Nonparametric correlation 	Interactive seminar	The solution of the applications will be done, including, by using the techniques implemented by the available specialized software packages (EXCEL-Data Analysis, SPSS)
5	Time series <ul style="list-style-type: none"> • Descriptive statistics • Estimate the trend component using simple methods 	Interactive seminar	The solution of the applications will be done, including, by using the techniques implemented by the available specialized software packages (EXCEL-Data Analysis, SPSS)
6	TEST	1 Seminar	
7	Development of a quantitative research project	2 SEMINARS	
8	PROJECT EVALUATION	1 Seminar	
<p><i>Bibliography</i></p> <ul style="list-style-type: none"> - Isaic-Maniu, Al.; Mitruț, C.; Voineagu, V., Statistică, Universitară, București, 2004, România - Voineagu V., Titan E., Ghita S., Boboc C., Todose D., Statistică: Baze teoretice și aplicații, Economică, București, 2007, România - Mitrut, C., Serban, D., Mitrut A., Statistics for bussiness administration, ASE, Bucuresti, 2003, http://www.biblioteca-digitala.ase.ro, România 			

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

Discipline develops critical thinking and understanding of reality through quantitative analysis

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. S(S)	Knowledge assesment	Project	30.00
10.2. S(S)	Knowledge assesment	Engagement during the seminars	10.00
10.3. S(S)	Knowledge assesment	Written test	10.00
10.4. Final assessment	Knowledge assesment	written examen	50.00
10.5. Modality of grading	Whole notes 1-10		
10.6. Minimum standard of performance			

Date of listing,
04/24/2026

Signature of the discipline leaders,

Date of approval in the
department

Signature of the Department Director,