

# Syllabus

## 1. Programme information

1.1. Institution	THE BUCHAREST UNIVERSITY OF ECONOMIC STUDIES
1.2. Faculty	Economic Cybernetics, Statistics and Informatics
1.3. Departments	Department of Statistics and Econometrics
1.4. Field of study	Cybernetics and statistics
1.5. Cycle of studies	Master Studies
1.6. Education type	Full-time
1.7. Study programme	Applied data analytics
1.8. Language of study	English
1.9. Academic year	2026-2027

## 2. Information on the discipline

2.1. Name	<b>Complex Systems</b>								
2.2. Code	<b>26.0318IF2.1-0001</b>								
2.3. Year of study	<b>2</b>	2.4. Semester	<b>1</b>	2.5. Type of assessment	<b>Test</b>	2.6. Status of the discipline	<b>O</b>	2.7. Number of ECTS credits	<b>5</b>
2.8. Instructors									

## 3. Estimated Total Time

3.1. Number of weeks	14.00		
3.2. Number of hours per week	2.00	of which	
		S(S)	1.00
		C(C)	1.00
3.3. Total hours from curriculum	28.00	of which	
		S(S)	14.00
		C(C)	14.00
3.4. Total hours of study per semester (ECTS*25)	125.00		
3.5. Total hours of individual study	97.00		
<i>Distribution of time for individual study</i>			
Study by the textbook, lecture notes, bibliography and student's own notes			
Additional documentation in the library, on specialized online platforms and in the field			
Preparation of seminars, labs, assignments, portfolios and essays			
Tutorials			
Examinations			
Other activities			

## 4. Prerequisites

4.1. of curriculum	
4.2. of competences	

### 5. Conditions

for the S(S)	
for the C(C)	

### 6. Acquired specific competences

PREFESSIONAL	CO4	Conducts quantitative research
PREFESSIONAL	CP1	Applies statistical analysis techniques
PREFESSIONAL	CP3	Performs data analysis
PREFESSIONAL	CT2	Thinks through the use of logic and reasoning for identifying the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
PREFESSIONAL	CT4	Evaluates and analyses information and its sources. Demonstrates ability to access and gain critical understanding of both traditional and new media, and their role and function in democratic societies.

### 7. Objectives of the discipline

7.1. General objective	
7.2. Specific objectives	

### 8. Contents

8.1. C(C)	Teaching/Work methods	Recommendations for students
0		
<i>Bibliography</i>		
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8.2. S(S)	Teaching/Work methods	Recommendations for students
0		
<i>Bibliography</i>		
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### 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

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### 10. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. Final assessment			
10.2. Modality of grading			

10.3. Minimum standard of performance	
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Date of listing,  
04/28/2026

Signature of the discipline leaders,

Date of approval in the  
department

Signature of the Department Director,