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	**Linear and Nonlinear Models for Business Application**								
2.2. Code	**26.0318IF2.1-04.2**								
2.3. Year of study	**2**	2.4. Semester	**1**	2.5. Type of assessment	**Exam**	2.6. Status of the discipline	**A**	2.7. Number of ECTS credits	**6**
2.8. Instructors									

3. Estimated Total Time

3.1. Number of weeks	14.00		
3.2. Number of hours per week	3.00	of which	
		S(S)	2.00
		C(C)	1.00
3.3. Total hours from curriculum	42.00	of which	
		S(S)	28.00
		C(C)	14.00
3.4. Total hours of study per semester (ECTS*25)	150.00		
3.5. Total hours of individual study	108.00		
Distribution of time for individual study			
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	CC1	Digital skills – advanced use of software tools and platforms, development of software applications on different platforms.
PREFESSIONAL	CC2	STEM (science, technology, engineering, mathematics) skills – understanding the mathematical foundations of AI, statistical methods of data analysis applied in AI techniques.
PREFESSIONAL	CC3	Personal, social and learning skills – self-management, adaptability to new technologies and continuous learning.
PREFESSIONAL	CP1	Applies statistical analysis techniques
PREFESSIONAL	CP2	Uses of data processing techniques
PREFESSIONAL	CP3	Performs data analysis

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			

Bibliography

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8.2. S(S)		Teaching/Work methods	Recommendations for students
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Bibliography

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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

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			

Date of listing,
04/28/2026

Signature of the discipline leaders,

Date of approval in the department

Signature of the Department Director,