

# 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 Economic Informatics and Cybernetics
1.4. Field of study	Business Administration
1.5. Cycle of studies	Licence
1.6. Education type	Full-time
1.7. Study programme	Business Administration (in English language)
1.8. Language of study	English
1.9. Academic year	2022-2023

## 2. Information on the discipline

2.1. Name	<b>Technology and programming in data science</b>								
2.2. Code	<b>22.0153IF1.2-0005</b>								
2.3. Year of study	<b>1</b>	2.4. Semester	<b>2</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>4</b>
2.8. Instructors									

## 3. Estimated Total Time

3.1. Number of weeks	14.00		
3.2. Number of hours per week	4.00	of which	
		C(C)	2.00
		L/P(L/P)	2.00
3.3. Total hours from curriculum	56.00	of which	
		C(C)	28.00
		L/P(L/P)	28.00
3.4. Total hours of study per semester (ECTS*25)	100.00		
3.5. Total hours of individual study	44.00		
<i>Distribution of time for individual study</i>			
Study by the textbook, lecture notes, bibliography and student's own notes	14.00		
Additional documentation in the library, on specialized online platforms and in the field	10.00		
Preparation of seminars, labs, assignments, portfolios and essays	14.00		
Tutorials	4.00		
Examinations	2.00		
Other activities			

## 4. Prerequisites

4.1. of curriculum	General informatics
4.2. of competences	Designing and elaborating electronic documents Modeling and automation of data processing procedures

## 5. Conditions

for the C(C)	Room with computer and videoprojector, with Internet access. The computer must have the Anaconda IDE installed.
for the L/P(L/P)	Computer laboratory (1 PC / student); LAN and Internet connection. The computers must have the Anaconda IDE installed.

## 6. Acquired specific competences

PREFESSIONAL	C5	Utilization of databases specific to business administration
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## 7. Objectives of the discipline

7.1. General objective	Competences and practical abilities regarding the use of current IT tools in the context of electronic business (E-Business)
7.2. Specific objectives	Acquiring skills for online data collection, processing and reporting using the Python programming language.

## 8. Contents

8.1. C(C)	Teaching/Work methods	Recommendations for students
0		
<i>Bibliography</i> -		
8.2. L/P(L/P)	Teaching/Work methods	Recommendations for students
0		
<i>Bibliography</i> -		

## 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

The contents provide the prerequisites for acquiring the necessary knowledge of an economic specialist with superior computer skills, in line with the trends of business models of migration to e-Business or the inclusion of a representative component of e-Business.

## 10. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. Final assessment	Written/Computer exam with multiple choice questions and practical problems to be solved and interpreted.	The answers are evaluated for correctness, using an established grading scheme.	50.00
10.2. Modality of grading	Whole notes 1-10		

10.3. Minimum standard of performance	Proper defining and application of appropriate instruments for modeling and administration of e-business solutions; Knowledge of fundamental elements of Python programming language. Obtaining at least 50% of the total score (based on cumulated evaluations of the assessments from sub-items 10.1, 10.2, 10.3), equivalent to the grade 5 (five).
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Date of listing,  
08/08/2022

Signature of the discipline leaders,

Date of approval in the  
department

Signature of the Department Director,