

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	Master Studies
1.6. Education type	Full-time
1.7. Study programme	Digital business and innovation
1.8. Language of study	English
1.9. Academic year	2021-2022

2. Information on the discipline

2.1. Name	IT systems for virtual enterprises								
2.2. Code	21.0295IF1.1-0005								
2.3. Year of study	1	2.4. Semester	1	2.5. Type of assessment	Exam	2.6. Status of the discipline	O	2.7. Number of ECTS credits	6
2.8. Leaders	C(C)	conf.univ.dr. VESPAN Dragos Marcel					dragos.vespan@ie.ase.ro		
	S(S)	conf.univ.dr. VESPAN Dragos Marcel					dragos.vespan@ie.ase.ro		

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
		S(S)	2.00
3.3. Total hours from curriculum	56.00	of which	
		C(C)	28.00
		S(S)	28.00
3.4. Total hours of study per semester (ECTS*25)	150.00		
3.5. Total hours of individual study	94.00		
<i>Distribution of time for individual study</i>			
Study by the textbook, lecture notes, bibliography and student's own notes	31.00		
Additional documentation in the library, on specialized online platforms and in the field	40.00		
Preparation of seminars, labs, assignments, portfolios and essays	20.00		
Tutorials	1.00		
Examinations	2.00		
Other activities			

4. Prerequisites

4.1. of curriculum	
4.2. of competences	

5. Conditions

for the C(C)	Lectures are conducted online via video conferencing. Students must have a computer with Internet access.
for the S(S)	The seminars are conducted online through a video conferencing system. Students must have a computer with Internet access.

6. Acquired specific competences

PREFESSIONAL	C4	
PREFESSIONAL	C6	

7. Objectives of the discipline

7.1. General objective	The course aims to develop among students the knowledge and skills for transforming, exploring and analyzing data and for creating simple and interactive visual reports.
7.2. Specific objectives	At the end of this course students will be able to identify ways to transform, explore and analyze data and create simple and interactive visual reports using SAS Viya.

8. Contents

8.1. C(C)		Teaching/Work methods	Recommendations for students
1	Introduction to SAS Visual Analytics	Interactive presentation and exemplification on a computer connected in video conferencing system	
2	Data transformation with SAS Data Studio	Interactive presentation and exemplification on a computer connected in video conferencing system	
3	Exploring data through charts and graphs	Interactive presentation and exemplification on a computer connected in video conferencing system	
4	Data analysis with SAS Visual Analytics	Interactive presentation and exemplification on a computer connected in video conferencing system	
5	Creating simple reports	Interactive presentation and exemplification on a computer connected in video conferencing system	
6	Creating interactive reports	Interactive presentation and exemplification on a computer connected in video conferencing system	

7	Using display rules	Interactive presentation and exemplification on a computer connected in video conferencing system	
8	The strategy behind the use of information	Interactive presentation and exemplification on a computer connected in video conferencing system	
9	The role of information technology and its financial impact	Interactive presentation and exemplification on a computer connected in video conferencing system	
10	E-commerce: strategy and development	Interactive presentation and exemplification on a computer connected in video conferencing system	
11	Artificial intelligence	Interactive presentation and exemplification on a computer connected in video conferencing system	
12	Decision support systems	Interactive presentation and exemplification on a computer connected in video conferencing system	

Bibliography

- Dragos Vespan, Course support, 2021, online.ase.ro
- Nicole Ball, SAS Visual Analytics 1 for SAS Viya:Basics, 2020
- John D. Kelleher, Brian Mac Namee and Aoife D'Arcy, Fundamentals of Machine Learning for Predictive Data Analytics, 2020
- Management Information Systems for the Information Age, McGraw-Hill Education, 2015

8.2. S(S)		Teaching/Work methods	Recommendations for students
1	Use of data in business	Interactive presentation and exemplification on a computer connected in video conferencing system	
2	Data contextual exploration	Interactive presentation and exemplification on a computer connected in video conferencing system	
3	Data preparation	Interactive presentation and exemplification on a computer connected in video conferencing system	
4	Relationships between different data sources	Interactive presentation and exemplification on a computer connected in video conferencing system	
5	Business data analysis	Interactive presentation and exemplification on a computer connected in video conferencing system	
6	Critiquing data visualizations	Interactive presentation and exemplification on a computer connected in video conferencing system	
7	Storytelling with Data Analytics	Interactive presentation and exemplification on a computer connected in video conferencing system	
8	Creating data visualizations	Interactive presentation and exemplification on a computer connected in video conferencing system	
9	Design principles and design critique	Interactive presentation and exemplification on a computer connected in video conferencing system	
10	The importance of responsible business decisions	Interactive presentation and exemplification on a computer connected in video conferencing system	
<p><i>Bibliography</i></p> <ul style="list-style-type: none"> - Dragos Vespan, Course support, 2021, online.ase.ro - Nicole Ball, SAS Visual Analytics 1 for SAS Viya:Basics, 2020 			

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 content of the discipline was correlated with the requirements of the business environment on the occasion of the various professional meetings and debates in which the course holder took part.

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. S(S)	Active participation in laboratory classes, completing assignments and individual/team project	The answers given during the hours, solving of the given assignments and conformity of the project with project requirements are evaluated.	40.00
10.2. Final assessment	Scores are given for the correct answers and the interpretation of practical problems is analyzed according to predefined scales.	Written exam or online written exam of the grid type and practical problems to be solved and interpreted.	60.00
10.3. Modality of grading	Whole notes 1-10		
10.4. Minimum standard of performance	Knowledge of techniques and methods for transforming, exploring and analyzing data and creating simple and interactive visual reports.		

Date of listing,
02/22/2023

Signature of the discipline leaders,

Date of approval in the
department

Signature of the Department Director,