SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	**Babeş-Bolyai University of Cluj-Napoca**
1.2 Faculty	**Faculty of Mathematics and Informatics**
1.3 Department	**Department of Informatics**
1.4 Field of study	**Computer Science and Information Technology**
1.5 Study cycle	**Bachelor**
1.6 Study programme / Qualification	**Information Engineering**

2. Information regarding the discipline

2.1 Name of the discipline (en) (ro)			Fundamentals of digital economy Fundamentele economiei digitale				
2.2 Course coordinator			**Lector univ. dr. Alexandru Roja**				
2.3 Seminar coordinator			**Lector univ. dr. Alexandru Roja**				
2.4. Year of study	**3**	2.5 Semester	**5**	2.6. Type of evaluation	**C**	2.7 Type of discipline	**Facultative DC**
2.8 Code of the discipline							

3. Total estimated time (hours/semester of didactic activities)

3.1 Hours per week	2	Of which: 3.2 course	2	3.3 seminar/laboratory	0
3.4 Total hours in the curriculum	28	Of which: 3.5 course	2	3.6 seminar/laboratory	0
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					10
Preparation for seminars/labs, homework, papers, portfolios and essays					10
Tutorship					
Evaluations					7
Other activities:					

3.7 Total individual study hours	47
3.8 Total hours per semester	75
3.9 Number of ECTS credits	3

4. Prerequisites (if necessary)

4.1. curriculum	• Inovation management
4.2. competencies	• Knowledge in the field of information technology.

	• Knowledge in the field of organisational management.

5. Conditions (if necessary)

5.1. for the course	• Classroom with video-projector and internet connection.
5.2. for the seminar /lab activities	• Room with video-projector, collaborative activities spaces for students.

6. Specific competencies acquired

Professional competencies	
Transversal competencies	CT1 Honorable, responsible, ethical behavior, in the spirit of the law, to ensure the professional reputation CT2 Identifying, describing and conducting processes in the projects management field, undertaking different team roles and clearly and concisely describing own profesional results, verbally or in writing CT3 Demonstrating initiative and pro-active behavior for updating professional, economical and organizational culture knowledge

7. Objectives of the discipline (outcome of the acquired competencies)

7.1 General objective of the discipline	• Understanding the concepts of the digital economy. • Familiarizing students with the main paradigm shifts, dimensions and trends that govern the economy based on innovation and digital technologies. • Learning methods, techniques and tools for investigating the digital economy. • Students' acquisition of specific skills in the digital economy.
7.2 Specific objective of the discipline	• Learning methods and tools for understanding the main trends of the digital economy. • Understanding the factors and driving forces behind the digital economy. • Understanding the indicators specific to the digital economy. • Understanding the competitiveness factors specific to the digital economy. • Understanding the distinctive aspects digital economy organizations.

8. Content

8.1 Course	Teaching methods	Remarks
1. Introduction to digital economy.	Lecture, heuristic conversation,	2 hours

	problematization.	
2. Strategic trends on digital economy.	Lecture, heuristic conversation, problematization.	2 hours
3. Technics, methods and instruments to analyse digital economy particularities.	Lecture, heuristic conversation, problematization.	2 hours
4. Roles of data, information, knowledge in digital economy paradigm. Information economy. Network economy. Platform economics.	Lecture, heuristic conversation, problematization.	2 hours
5. Growth methods at micro (organizations), and meso (business sectors) specific to digital economy.	Lecture, heuristic conversation, problematization.	2 hours
6. Growth models at macroeconomic level specific to digital economy.	Lecture, heuristic conversation, problematization.	2 hours
7. Capabilities and capacities specific to digital enterprises and organizations in digital economy.	Lecture, heuristic conversation, problematization.	2 hours
8. New organizational management principles for digital economy. New business models specific of digital economy.	Lecture, heuristic conversation, problematization.	2 hours
9. Roles of technologies and digital innovations in the new paradigm of digital economy.	Lecture, heuristic conversation, problematization.	2 hours
10. New digital value, intangible resources roles and digital strategies in digital economy.	Lecture, heuristic conversation, problematization.	2 hours
11. Digital change and transformation management.	Lecture, heuristic conversation, problematization.	2 hours
12. Digital organizations (architectures, processes, governance principles)	Lecture, heuristic conversation, problematization.	2 hours
13. Digitalization and digital economy strategic impact.	Lecture, heuristic conversation, problematization.	2 hours
14. Competitive redefinition in new paradigm of digital economy, and new ecosystemic approaches.	Lecture, heuristic conversation, problematization.	2 hours

Bibliography

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28. Tapscott, D. (2015), *The Digital Economy, McGrawHill*

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the program

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10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)
10.4 Course	Acquiring the information received during the course. Own reasoning, critical	colloquy	70%

	and creative thinking on the topics of the course.		
	Own reasoning, critical and creative thinking on the topics of the course.	Interventions and debates at the courses.	30%
10.6 Minimum performance standards			
➢ Minimum grade of 5 for promotion.			

Date	Signature of course coordinator	Signature of seminar coordinator
16.05.2022	Lector univ. dr. Alexandru Roja	Lector univ. dr. Alexandru Roja

Date of approval

Signature of the head of department

24.05.2022