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

1. Information regarding the programme

2. Information regarding the discipline

2.1 Name of the dis	scip	line (en)	Elaboration of the diploma project				
(ro)			Elaborarea proiectului de diplomă				
2.2 Course coordin	ato	r	Prof. dr. Camelia Chira				
2.3 Seminar coordinator			Prof. dr. Camelia Chira				
2.4. Year of study	4	2.5 Semester	8	2.6. Type of evaluation	E	2.7 Type of discipline	Compulsory DS
2.8 Code of the discipline		MLE5184				•	

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

3.1 Hours per week	4	Of which: 3.2 course	0	3.3	1 LP
				seminar/laboratory	3 P
3.4 Total hours in the curriculum	56	Of which: 3.5 course	0	3.6	56
				seminar/laboratory	
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					
Additional documentation (in libraries, on electronic platforms, field documentation)					
Preparation for seminars/labs, homework, papers, portfolios and essays					
Tutorship					
Evaluations					
Other activities:					
3.7 Total individual study hours 44					1
3.8 Total hours per semester 100					
3.9 Number of ECTS credits 4					

4. Prerequisites (if necessary)

4.1. curriculum	•
4.2. competencies	•

5. Conditions (if necessary)

5.1. for the course	-
5.2. for the seminar /lab	-
activities	

6. Specific competencies acquired

	C3.1 Identifying classes of problems and solving methods that are specific to computing systems
	C3.2 Using interdisciplinary knowledge, solution patterns and tools, making experiments and interpreting their results
	C3.3 Applying solution patterns using specific engineering tools and mehods
ncies	C3.4 Comparatively and experimentally evaluation of the alternative solutions for performance optimization
npete	C3.5 Developing and implementing information system solutions for concrete problems
Professional competencies	C4.1 Identifying and describing technologies, programming environments and various concepts that are specific to programming engineering
	C4.2 Explaining the role, interaction and operation patterns of software system components
	C4.3 Developying specifications and designing information systems using specific methods and tools
	C4.4 Managing the life cycle of hardware, software and communications systems based on performance evaluation
	C4.5 Developing, implementing and integrating software solutions
ersal encies	CT1 Honorable, responsible, ethical behavior, in the spirit of the law, to ensure the professional reputation
Transversal competencies	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	• Support, guide and monitor the individual work of the student carried out for the diploma project
7.2 Specific objective of the discipline	 Elaboration of necessary documentation for the diploma project Defining the content and structure of the diploma project Elaboration of the technical and scientific documentation in several iterations Use of research methodologies specific to small dimension projects

8. Cor	ntent		
8.1 Co	ourse	Teaching methods	Remarks
8.2 La	Iboratory	Teaching methods	Remarks
	Establish the topic of the diploma project Documentation for assignment A1: title of the project, name of scientific coordinator, brief description of the domain, 3 bibliographical references A1 is due for submission in Lab 2. Establish the content and structure of the	 Conversation Explanation Debate Study case 	
2.	Establish the content and structure of the thesis Evaluate A1 Documentation for assignment A2: chapter list and thesis structure, presentation of project objectives and work plan A2 is due for submission in Lab 3.		
3.	Elaboration of the theoretical chapters Evaluate A2 Documentation for assignment A2: one theoretical chapter, establish state-of-the-art, correct use of tables and figures A3 is due for submission in Lab 4.		
4.	Elaboration of requirements and specifications Evaluate A3 Documentation for assignment A4: first part of a practical chapter, analysis and requirements specification for the project, demonstration of one functionality		
5.	A4 is due for submission in Lab 5. Development of practical chapters Evaluate A4 Documentation for assignment A5: one practical chapter (phases of design/implementation/testing), project demonstration A5 is due for submission in Lab 6.		
6.	Elaboration of abstract , introduction and presentation Evaluate A5 Documentation for assignment A6: abstract, introduction, project presentation A6 is due for submission in Lab 7.		
7.	Evaluate A6 Final evaluation		
Biblio -	graphy Decided by student depending on the topic Online resources relevant in the development o	f projects in specific IT	°C domains
8.3 Pr	•	Teaching methods	Remarks
	Establish the topic of the diploma project	Conversation Explanation	
	Establish the content and structure of the thesis	 Debate Study case 	
3.	Elaboration of the theoretical chapters.		
4.	Elaboration of requirements and		

	specifications
5.	Development of practical chapters
6.	Elaboration of abstract, introduction and
	presentation
7.	Preparation of the presentation.

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

- The course respects the IEEE and ACM Curricula Recommendations for information engineering
- The course exists in the studying program of all major universities in Romania which offer similar studies

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)		
10.4 Course					
10.5 Seminar/lab activities	Grade given by the tutor is	Portofolio and project	50%		
	the average of grades for				
	assignments A1-A6				
	Grade given by the	Project, reports	50%		
	scientific coordinator				
10.6Minimum performance standards					
• Each student has to submit all assignments specified A1 A6 (penalties will be given for delays in					

• Each student has to submit all assignments specified A1-A6 (penalties will be given for delays in submitting an assignment).

• Final grade is the average of the grades given by the tutor and the scientific coordinator, and has to be minimum 5.

Date

Signature of course coordinator

9.05.2022

Prof. dr. Camelia Chira

Signature of seminar coordinator

Prof. dr. Camelia Chira

Signature of the head of department

Prof. dr. Laura Dioșan

24.05.2022

Date of approval