syllabus

1. Information regarding the programme

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	

2. Information regarding the discipline

2.1 Name of the d	liscipli	ine (en)	Specialization Internship / Practică de specialitate				
(ro)							
2.2 Course coordi	nator						
2.3 Internship coo	ordinat	or	Assoc. Prof. Dr. Eng. Călin-Octavian Micloșină				
2.4. Year of study	III	2.5	6	2.6. Type of	С	2.7 Type of	Compulsor
		Semester		evaluation		discipline	y D
							DS
2.8 Code of the		MLE5188					
discipline							

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

3.1 Hours per week	30	Of which: 3.2 course		3.3 internship	30	
3.4 Total hours in the curriculum	90	Of which: 3.5 course		3.6 internship	90	
Time allotment:						
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:					10	
3.7 Total individual study hours10						
3.8 Total hours per semester		100				
3.9 Number of ECTS credits		4				

4. Prerequisites (if necessary)

4.1. curriculum	•	N/A
4.2. competencies	•	N/A

5. Conditions (if necessary)

5.1. for the course	-	N/A
5.2. for the internship	•	Internship agreement with the specialized economic unit / RDI.
activities		

6. Specific competencies acquired

	· C2.1 Describing the structure and operation of hardware, software and communication
	components
	· C2.2 Explaining the role, interaction and operation of hardware, software and
	communication components
	· C3.2 Using interdisciplinary knowledge, solution patterns and tools, making experiments
Profe	and interpreting their results;
ssion	• C3.5 Developing and implementing information system solutions for concrete problems;
al	· C4.1 Identifying and describing technologies, programming environments and various
comp	concepts that are specific to programming engineering;
etenc	• C4.2 Explaining the role, interaction and operation patterns of software system
ies	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.
T	CT1 Use such a second it is a third behavior in the minit of the law to second the
Iran	• CTT Honorable, responsible, ethical behavior, in the spirit of the law, to ensure the
svers	professional reputation.
ai	C12 Identifying, describing and conducting processes in the project management field,
comp	undertaking different team roles and clearly and concisely describing own profesional
etenc	results, verbally or in writing.
ies	C13 Demonstrating initiative and pro-active behavior for updating professional,
	economical and organizational culture knowledge.

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

<u> </u>	· ·	
7.1 General objective of the	•	Understanding and using of the tools, technologies and programming
discipline		environments specific to computer science and engineering in order to
		solve problems, design and integrate computer systems, within a
		specialized company or research team.
7.2 Specific objective of the		Learning how to develop and implement IT solutions;
discipline		Acquiring the skills to design, develop and implement projects and
		programming environments.
	•	Developing team work and communication skills.

8. Content

8.1 Course	Teaching methods	Remarks
-		
Bibliography		
-		
8.2 Internship	Teaching methods	Remarks

1. The technical training of work safety at the	Observation,	6 hours
economic / RDI entity where the internship is carried	problematization,	
out.	experiment, group	
	consultation.	
2. Activity description of the economic / RDI entity.		6 hours
Elements specific to computers and information		
technology.		
3. Design / development / implementation / use of		72 hours
technologies / programming environments at the		
economic entity / RDI.		
4. Completion of the internship report (notebook).		6 hours
Bibliography		
1. ***: Hardware specific documentation;		
2. ***: Software specific documentation.		

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 contents of the discipline were established with the main employers in the discussions prior to the substantiation of the study program.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade $\binom{9}{7}$			
			grade (%)			
10.4 Course			-			
			-			
10.5 Internship	Involvement and presence	The grade given by the	70 %			
	to the activities at the	internship tutor by the				
	economic / RDI entity	evaluation form				
	Content and presentation	Report presentation	30 %			
	of the internship report					
10.6 Minimum performance standards						
□ Fulfilling the obligations related to the internship activity;						
Completion of the internship report.						

Date

Signature of course coordinator

Signature of seminar coordinator

foudat

23.05.2022

Signature of the head of department

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Prof. dr. Laura Dioșan

Diosen

Date of approval

24.05.2022