SYLLABUS

1. Information regarding the programme

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

2. Information regarding the discipline

2.1 Name of the discipline (en)			Pre	eparation of Bach	elor 7	Thesis	
(ro)							
2.2 Course coordinator			PhD Associate Professor Vescan Andreea				
2.3 Seminar coordinator			PhD Associate Professor Vescan Andreea				
2.4. Year of study 3	2.5 \$	Semester	6	2.6. Type of	E	2.7 Type of	compulsory
				evaluation		discipline	
2.8 Code of the MLE2001							
discipline							

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

3.1 Hours per week	1	Of which: 3.2 course	0	3.3	1
				seminar/laboratory	
3.4 Total hours in the curriculum	12	Of which: 3.5 course	0	3.6	12
				seminar/laboratory	
Time allotment:					
Learning using manual, course support, bibliography, course notes					
Additional documentation (in libraries, on electronic platforms, field documentation)					12
Preparation for seminars/labs, homework, papers, portfolios and essays					24
Tutorship					0
Evaluations					0
Other activities:					0
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3.7 Total individual study hours	38
3.8 Total hours per semester	50
3.9 Number of ECTS credits	2

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	• None
activities	

6. Specific competencies acquired

Professional competencies	 Analysis, design, and implementation of software systems Proficient use of methodologies and tools specific to programming languages and software systems
Transversal Prof	Professional communication skills; concise and precise description, both oral and written, of professional results

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

7.1 General objective of the discipline	• The course represents the individual work the student performs with the purpose to prepare the Bachelor's Degree thesis on a given topic.
7.2 Specific objective of the discipline	 At the completion of this course, the student should: have documentation abilities on an established topic be able to design the table of contents of a thesis know how to write a technical document (research paper) in many iterations know how to conduct a small size research project, use research methologies

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
Seminar 1	Conversation, debate,	
Assignment Received:	case studies	
• Assignment 1: Establishing the theme with the scientific		
coordinator.		
Assignment Delivery:		
Assignment Delivery: Seminar 2		
Turn in: chosen theme, name of the scientific		
coordinator, domain of the theme, 3 bibliographic		
resources (books, articles, etc.)		
Seminar 2	Conversation, debate,	
Assignment Received:	case studies	
• Assignment 2: Creating the content of the paper +		
Develop a chapter from the theoretical part.		
Assignment Delivery:		
 Assignment Delivery: Seminar 3 		

• Turn in: content of the thesis (chapters for the theoretical	
part + chapters for the practical part) + Chapter	
Theoretical 1	
Seminar 3	Conversation, debate,
Assignment Received:	case studies
Assignment 3: Develop another chapter from the	
theoretical part. Develop the chapter for the application	
Assignment Delivery:	
Assignment Delivery: Seminar 4	
Turn in: Chapter (of your choice) from the theoretical	
part (theoretical content + references + tables + images).	
Chapter from the practical part (theoretical content +	
references + tables + images). This chapter should	
contain at this time the application requirements and	
their specification.	
Seminar 4	Conversation, debate,
Assignment Received:	case studies
Assignment 4: Develop another chapter for the	
application. One functionality F1 of the application must	
be shown/executed.	
Assignment Delivery:	
Assignment Delivery: Seminar 5	
Turn in: Another chapter from the theoretical part	
(theoretical content + references + tables + images)	
Chapter from the practical part should contain	
design/implementation/testing for Functionality F1.	
Seminar 5	Conversation, debate,
Assignment Received:	case studies
 Assignment 5: Presentation slides, 	
Abstract+Introduction, Functionality F2 - execution	
Assignment Delivery:	
Assignment Delivery: Seminar 6	
Turn in: Presentation (only slides) + Abstract and	
Introduction + Functionality F2 – to be shown.	
Seminar 6	Conversation, debate,
Grading by the Tutor	case studies
Bibliography	

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 Software Engineering studies;
 - The course exists at the major universities in Romania offering similar study programs;

10. Evaluation

- to be decided by student based on his/her research topic

- Internet resources on software projects and on the particular topics of the projects

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	• Final Grade = 0.5 * Grade given by Tutor + 0.5* Grade given by Scientific Coordinator	Portofolio, research report	• 50% Grade given by Tutor (arithmetic average of the

Grade given by Tutor	grades from the
= arithmetic average of	5 laboratory
the grades from the 5	assignments
laboratory assignments	(awarded at the
(awarded at the end of	end of the
the laboratory 6)	laboratory 6))
Grade given by	50% Grade given by
Scientific Coordinator	Scientific
= given in the session	Coordinator

Remarks.

- Presence on this subject is mandatory, and minimum 4 attendances will be required.
- Students will have 5 lab assignments; each assignment will receive a grade.
- Penalties
 - o The assignments delivered after the scheduled delivery are marked with 2 points/laboratory delay.
 - o Example: Assignment 3 with a delivery schedule in Lab 4 but delivered in Lab 6, gets the maximum mark of 6.
- Grade given by Tutor = arithmetic average of the grades from the 5 laboratory assignments (awarded at the end of the laboratory 6)
- Grade given by Scientific Coordinator = given in the session
- Final Grade = 0.5 * Grade given by Tutor + 0.5* Grade given by Scientific Coordinator
- Pass the subject: Final grade >= 5. Grade given by Tutor or Grade given by Scientific Coordinator may be less than 5, but the Final Grade must be greater than 5.
- In the retake session, the student can also deliver assignments that were undelivered during the didactic activity only if she/he has at least 4 attendances. The grade given by tutor will be at most 6 if during the semester the student did not delivered any assignment. If the student delivered parts of the assignments during the semester, and in the retake session she/he delivered some other assignments, the grade on each assignment is computed as if it were delivered in Lab 6 (with appropriate penalties), but the final grade will be at most 6.
- Students who do not have a minimum of 4 attendances may deliver them only in the liquidation session, and the tutor's grade will be maximum 6.

10.6 Minimum performance standards

At least grade 5 (from a scale of 1 to 10)

Date	Signature of course coordinator	Signature of seminar coordinator	
19 April 2022	Assoc. Prof. PhD. Andreea Vescan,	Assoc. Prof. PhD. Andreea Vescan	
	Alexan	Aferon	
Date of approval	Signature	Signature of the head of department	
	Prof	Prof. PhD. Anca Andreica	