

SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	Babes-Bolyai University
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 / Qualification	Artificial intelligence

2. Information regarding the discipline

2.1 Name of the discipline (en) (ro)	Preparation of Bachelor Thesis						
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 evaluation	E	2.7 Type of discipline	compulsory
2.8 Code of the discipline	MLE2001						

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

3.1 Hours per week	1	Of which: 3.2 course	0	3.3 seminar/laboratory	1
3.4 Total hours in the curriculum	12	Of which: 3.5 course	0	3.6 seminar/laboratory	12
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					2
Additional documentation (in libraries, on electronic platforms, field documentation)					45
Preparation for seminars/labs, homework, papers, portfolios and essays					10
Tutorship					5
Evaluations					1
Other activities:					0
3.7 Total individual study hours	63				
3.8 Total hours per semester	75				
3.9 Number of ECTS credits	3				

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	• None

6. Specific competencies acquired

Professional competencies	<ul style="list-style-type: none"> • Analysis, design, and implementation of software systems • Proficient use of methodologies and tools specific to programming languages and software systems
Transversal competencies	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • At the completion of this course, the student should: <ul style="list-style-type: none"> ○ 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 methodologies

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
Seminar 1. Presentation of how to write a scientific work		
Seminar 2. Establishing the theme with the scientific coordinator.	Conversation, debate, case studies	
Seminar 3. Creating the content of the thesis	Conversation, debate, case studies	
Seminar 4. Develop a chapter from the theoretical part.	Conversation, debate, case studies	
Seminar 5 Develop another theoretical chapter and also a chapter for the application.	Conversation, debate, case studies	
Seminar 6. Presentation of the final version of the thesis.	Conversation, debate, case studies	
Bibliography		
- to be decided by student based on his/her research topic		
- Internet resources on software projects and on the particular topics of the projects		

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

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)
10.1 Course			
10.2 Seminar/lab activities	Grade given by Tutor	Portofolio, research report	50%
	Grade given by Scientific Coordinator = given in the session		50%
Remarks.			
<ul style="list-style-type: none"> • Presence on this subject is mandatory, and minimum 4 attendances will be required. • 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 5.1 			
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

26 April 2023

Assoc. Prof. PhD. Andreea Vescan,

Assoc. Prof. PhD. Andreea Vescan

Date of approval

Signature of the head of department

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