

syllabus

1. Information regarding the programme

1.1 Higher education institution	Babeş 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	Computer Science

2. Information regarding the discipline

2.1 Name of the discipline		Preparation of Bachelor Thesis					
2.2 Course coordinator		Assoc.Prof.PhD. Simona Motogna					
2.3 Seminar coordinator		Assoc.Prof.PhD. Simona Motogna					
2.4. Year of study	3	2.5 Semester	6	2.6. Type of evaluation	C	2.7 Type of discipline	Compulsory

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					10
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					30
Tutorship					10
Evaluations					8
Other activities:					-
3.7 Total individual study hours		88			
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	• 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	The course represents the individual work the student performs with the purpose to prepare the Bachelor Degree thesis on a given topic.
7.2 Specific objective of the discipline	<p>At the completion of this course, the student should:</p> <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
1. Establishing the thesis plan: content and deadlines	Conversation, debate, case studies	
2. Survey of existing literature	Conversation, debate, discussion of case studies	
3. Relevance of the bibliographical sources and their assignment to the designed structure	Conversation, debate, case studies	
4. Practical part – detailed analysis and design of the solution	Conversation, debate, case studies	
5. Detecting possible original contribution; discussion and decision on practical part	Conversation, debate, case studies	
6. Final form of the thesis; review procedures	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 (%)
10.4 Course			
10.5 Project activities	<p>Each of the activities has a due date and a corresponding mark, on a 10-point scale. A penalty of 1pt per week are considered for delays. The weights are as follows:</p> <ol style="list-style-type: none"> 1. title (10%) 2. documentation (20%) 3. contents v1.0 (10%) 4. assigning sources to structure (20%) 5. final version of the paper (40%) 	Portofolio, research report	<p>10%</p> <p>20%</p> <p>10%</p> <p>20%</p> <p>40%</p>
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

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Assoc.Prof.PhD. Simona MOTOGNA

Assoc.Prof.PhD. Simona MOTOGNA

Date of approval

Signature of the head of department

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