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	Computer Science
1.5 Study cycle	Master
1.6 Study programme /	Software Engineering
Qualification	

2. Information regarding the discipline

2.1 Name of the discipline Researsh Project in Software Engineering							
2.2 Course coordinator Assoc.Prof.PhD. Simona Motogna							
2.3 Seminar coordinator				Assoc.Prof.PhD. Simona Motogna			
2.4. Year of	2	2.5	4	2.6. Type of Compulsory			
study		Semester		evaluation		discipline	

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

3.1 Hours per week	3	Of which: 3.2 course	0	3.3	3
				seminar/laboratory	
3.4 Total hours in the curriculum	42	Of which: 3.5 course	0	3.6	42
				seminar/laboratory	
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					30
Additional documentation (in libraries, on electronic platforms, field documentation)					10
Preparation for seminars/labs, homework, papers, portfolios and essays					50
Tutorship					14
Evaluations					4
Other activities:					_
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3.7 Total individual study hours	
3.8 Total hours per semester	150
3.9 Number of ECTS credits	6

4. Prerequisites (if necessary)

4.1. curriculum	Computer Science Research Methodology
4.2. competencies	•

5. Conditions (if necessary)

5.1. for the course	• -
5.2. for the seminar /lab	• None
activities	

6. Specific competencies acquired

	te 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 competencies	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 research project activity represents the individual work the student performs with the purpose to realize a scientific report 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 the dissertation
	- know how to write a technical document (dissertation) in many iterations

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Establishing the research title/topic - due week	Conversation, debate,	
3	case studies	
2. Bibliographical documentation - due week 5	Conversation, debate,	
	case studies	
3. Table of contents: version 1.0 - due week 6	Conversation, debate,	
	case studies	
4. Relevance of the bibliographical sources and	Conversation, debate,	
their assignment to the designed structure - due	case studies	
week 8		
5. Detecting possible original contribution;	Conversation, debate,	
discussion and decision on practical part – due	case studies	
week 9		
6. Translation of selected documents and writing	Conversation, debate,	
the paper – first draft of the report – due week	case studies	
12		
7. Final form of the report – due week 14	Evaluation	
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 Curriculla Recommendations for Software Engineering studies;
- The course exists at the major universities in Romania offering similar study programs;
- Graduating a master program assumes experience in developing a research project

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	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:	Portofolio, research report			
	1. title (10%)		10%		
	2. documentation (20%)		20%		
	3. contents v1.0 (10%)		10%		
	4. assigning sources to structure (20%)		20%		
	5. final version of the paper (40%)		40%		
10.6 Minimum performance standards					
At least grade 6 (from a scale of 1 to 10)					

Date	Signature of course coordinator		Signature of seminar coordinator
	Assoc.Prof.PhD. Simona MOTOGNA	A	Assoc.Prof.PhD. Simona MOTOGNA
Date of appro	val	Signa	ature of the head of department