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 Research Project in Software Engineering							
2.2 Course coordinator Assoc.Prof.PhD. Simona Motogna							
2.3 Seminar coordinator				Assoc.Prof.PhD	. Simon	a Motogna	
2.4. Year of	2	2.5	4	2.6. Type of	C	2.7 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 pr
-				seminar/laboratory	-
3.4 Total hours in the curriculum	36	Of which: 3.5 course	0	3.6	36
				seminar/laboratory	
Time allotment:					
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					50
Tutorship					14
Evaluations					10
Other activities:					-

3.7 Total individual study hours	114
3.8 Total hours per semester	150
3.9 Number of ECTS credits	6

4. Prerequisites (if necessary)

"Telequisites (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

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 research project activity represents the individual work the
the discipline	student performs with the purpose to realize a scientific report
	on a given topic.
7.2 Specific objective of	At the completion of this course, the student should:
the discipline	- have documentation abilities on an established topic
	- be able to design the table of contents of research project
	- know how to write a technical document (research paper) in
	many iterations

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Establishing the research title/topic	Conversation,	
	debate, case studies	
2. Bibliographical documentation	Conversation,	
	debate, case studies	
3. Table of contents: version 1.0	Conversation,	
	debate, case studies	
4. Relevance of the bibliographical	Conversation,	
sources and their assignment to the	debate, case studies	
designed structure		
5. Detecting possible original	Conversation,	
contribution; discussion and decision	debate, case studies	
on practical part and experimental part		
6. Translation of selected documents and	Conversation,	
writing the paper – first draft of the	debate, case studies	
report		
7. Final form of the report	Evaluation	
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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	The ability to write a research report and present the obtained results	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. Portofolio: 3 research reports Report 1: deliver date: week 4 Report 2: deliver date: week 6 Report 3: deliver date: week 10	20% 20% 50%		
		Presentation	10%		
10.6 Minimum performance standards					
At least grade 5 (from a scale of 1 to 10)					

Date 29.04.2020	Signature of course coordinator Assoc.Prof.PhD. Simona MOTOGNA	Signature of seminar coordinator Simona MOTOGNA
Date of appro	val	Signature of the head of department
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