#### **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 Elaboration of the Dissertation Thesis							
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	VP	2.7 Type of	Compulsory
study		Semester		evaluation		discipline	

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

3.1 Hours per week		Of which: 3.2 course	0	3.3 project	5
3.4 Total hours in the curriculum		Of which: 3.5 course	0	3.6 project	60
Time allotment:					
Learning using manual, course support, bibliography, course notes					
Additional documentation (in libraries, on electronic platforms, field documentation)					
Preparation for seminars/labs, homework, papers, portfolios and essays					
Tutorship					8
Evaluations					4
Other activities:					-

3.7 Total individual study hours	40
3.8 Total hours per semester	100
3.9 Number of ECTS credits	4

# **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

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

#### **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 Master 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 several iterations

#### 8. Content

8.1 Course	Teaching methods	Remarks		
8.2 Project	Teaching methods	Remarks		
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;
- 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 Project 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	Portofolio, research report	

	as follows:			
	1. title (10%)			
	2. documentation (20%)		10%	
			20%	
	3. contents v1.0 (10%)		10%	
	4. assigning sources to		10%	
	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
30.04.2020	Assoc.Prof.PhD. Simona MOTOGNA	A	Assoc.Prof.PhD. Simona MOTOGNA
Date of appro	val	Signa	ature of the head of department