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 Prof.PhD. Simona Motogna							
2.3 Seminar coordinator 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	5	Of which: 3.2 course	0	3.3 project	5
3.4 Total hours in the curriculum	60	Of which: 3.5 course	0	3.6 project	60
Time allotment:			•		hours
Learning using manual, course support	rt, bił	oliography, course notes	6		8
Additional documentation (in libraries, on electronic platforms, field documentation)					8
Preparation for seminars/labs, homework, papers, portfolios and essays					12
Tutorship					8
Evaluations					4
Other activities:					-
3.7 Total individual study hours		40			•
3.8 Total hours per semester		100			

4. Prerequisites (if necessary)

3.9 Number of ECTS credits

4.1. curriculum	Computer Science Research Methodology
4.2. competencies	•

4

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

Mora, M. (Ed.). (2012). Research methodologies, innovations and philosophies in software systems engineering and information systems. IGI Global.

M. Frențiu, I.A.Rus, Metodologia Cercetării Științifice în Informatică, Ed. Presa Universitară Clujeană, 2014.

- 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	Portofolio, research report	
	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:				
	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 5 (from a scale of 1 to 10) Basic knowledge in writing a thesis 					

Date Signature of course coordinator

27.04.2023 Prof.PhD. Simona MOTOGNA

Date of approval

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Signature of seminar coordinator

Prof.PhD. Simona MOTOGNA

Signature of the head of department

Prof.dr. Laura Dioșan