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	Master
1.6 Study programme / Qualification	Data Analysis and Modelling

2. Information regarding the discipline

2. Throt mation regarding the discipline								
2.1 Name of th	e dis	scipline		Elaboration of the Dissertation Thesis /				
	Elaborarea lucrării de disertație /							
				Magiszteri dolgozat o	elkész	zítése		
2.2 Course coo	2.2 Course coordinator Prof. dr. Lehel CSATO							
2.3 Seminar coordinator				Prof. dr. Lehel CSATO				
2.4. Year of	2	2.5	4	2.6. Type of	VP	2.7 Type of	Compulsory	
study		Semester		evaluation		discipline		
2.8. Code	M	ME3402			•	_		

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

3.1 Hours per week	2	Of which: 3.2 course	0	3.3	project	2
3.4 Total hours in the curriculum	24	Of which: 3.5 course	0	3.6	project	24
Time allotment:					hours	
Learning using manual, course support, bibliography, course notes					22	
Additional documentation (in libraries, on electronic platforms, field documentation)					27	
Preparation for seminars/labs, homework, papers, portfolios and essays					17	
Tutorship					6	
Evaluations					4	
Other activities:					-	

3.7 Total individual study hours	76
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 activities	None

6. Specific competencies acquired

Professional competencies	understanding Use of specific theoretical methods in p Analysis, design, and implementation of	E
Transversal competencies	General communication skills; Concise and precise description – both	oral and written – of research results.

7. Objectives of the discipline (outcome of the acquired competencies)

7.1 General objective of the	This research activity represents the individual work the student performs	
discipline	with the purpose to finalize his/her dissertation thesis.	
7.2 Specific objective of the	At the completion of this course, the student should:	
discipline	- have documentation abilities on the dissertation;	
	- 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
- none		
2.2 Saminary / Jaharratarry	Too ahing mathada	Damanla
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Establishing the thesis title/topic - due week 2	Conversation, debate, case studies	
2. Bibliographical documentation - due week 4	Conversation, debate, case studies	
3. Table of contents: version 1.0 - due week 5	Conversation, debate, case studies	
4. Relevance of the bibliographical sources and their assignment to the designed structure - due week 7	Conversation, debate, case studies	
5. Detecting possible original contribution; discussion	Conversation, debate, case studies	
and decision on experimental modeling – due week 8 6. Processing of selected documents and writing the paper – first draft of the thesis – due week 10	Conversation, debate, case studies	
7. Final form of the thesis – due week 12	Evaluation	

Bibliography

- to be decided by student based on his/her research topic,
- software projects available for testing,

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	10.3 Share in		
		methods	the grade (%)		
10.4 Course					
10.5 Seminar/lab	Each of the activities has a due date and a	Portfolio, research			
activities	corresponding mark, on a 10-point scale. A	report. Assessment			
	penalty of 1pt per week are considered for	by dissertation			
	delays. The weights are as follows:	coordinator			
	1. title (10%)		10%		
	2. bibliographical documentation (10%)		10%		
	3. table of contents v1.0 (10%)		10%		
	4. assigning sources to structure (20%)		20%		
	5. original contribution + experimental (10%)		10%		
	6. final version of the thesis (40%)		40%		
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

2020.04.18. Prof dr. Lehel CSATÓ Prof dr. Lehel CSATÓ

Date of approval Signature of the head of department

2020.04.20. Conf. Dr. Szilárd ANDRÁS