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 Science for Industry and Society

2. Information regarding the discipline

2.1 Name of the discipline (en) (ro)			Elaboration of the Dissertation Thesis Elaborarea lucrarii de disertatie				
2.2 Course coordinator			Prof. PhD. Dioșan Laura				
2.3 Seminar coordinator			Prof. PhD. Dioșan Laura				
2.4. Year of study	**2**	2.5 Semester	**4**	2.6. Type of evaluation	**VP**	2.7 Type of discipline	**Compulsory**
2.8 Code of the discipline		MME3042					

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

3.1 Hours per week	5	Of which: 3.2 course	0	3.3 seminar/laboratory	5
3.4 Total hours in the curriculum	60	Of which: 3.5 course	0	3.6 seminar/laboratory	60
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					10
Additional documentation (in libraries, on electronic platforms, field documentation)					10
Preparation for seminars/labs, homework, papers, portfolios and essays					10
Tutorship					5
Evaluations					5
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 activities	-

6. Specific competencies acquired

Professional competencies	Analysis and formalization of problems requiring intelligent methods and models Use of computational intelligence methods in problems solving Analysis, design, and implementation of software systems for computational intelligence 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 resultms

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

7.1 General objective of the discipline	This research activity represents the individual work the student performs with the purpose to finalize his/her dissertation thesis.
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 research report - know how to write a technical document (research report) in many iterations

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Establishing the thesis title/topic 2. Bibliographical documentation 3. Table of contents: version 1.0 4. Relevance of the bibliographical sources and their assignment to the designed structure 5. Detecting possible original contribution; discussion and decision on experimental modelling 6. Processing of selected documents and writing the paper – first draft of the thesis	Conversation, debate, case studies	
7. Final form of the thesis	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 Curricula Recommendations for Computer Science 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.	
		1. title and table of contents	10%
		2. bibliographical documentation, relevance, assignment to structure	20%
		3. text of the thesis	50%
		4. Contributions – originality and experiments	10%
		5. final version	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
18.10.2023	Prof. PhD. Dioșan Laura	Prof. PhD. Dioșan Laura

Date of approval	Signature of the head of department
.....	Prof. PhD. Dioșan Laura