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	Applied Computational Intelligence

2. Information regarding the discipline

2.1 Name of the discipline				Research Project in Applied Computational Intelligence			
2.2 Course coordinator Prof.Dr. Horia F. Pop							
2.3 Seminar coordinator				Prof.Dr. Horia F. Po	ор		
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 seminar/laboratory	3
3.4 Total hours in the curriculum	36	Of which: 3.5 course	0	3.6 seminar/laboratory	36
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					22
Tutorship					14
Evaluations					4
Other activities:				_	

3.7 Total individual study hours	64
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	 Analysis, design, and implementation of software systems for modeling and simulation 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	The research project activity represents the individual work the student
discipline	performs with the purpose to realize a scientific report on a given topic.
7.2 Specific objective of the	At the completion of this course, the student should:
discipline	- have documentation abilities on an established topic
	- 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
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Establishing the research title/topic - due week 3	Conversation, debate, case studies	
2. Bibliographical documentation - due week 5	Conversation, debate, case studies	
3. Table of contents: version 1.0 - due week 6	Conversation, debate, case studies	
4. Relevance of the bibliographical sources and their	Conversation, debate, case studies	
assignment to the designed structure - due week 8		
5. Detecting possible original contribution; discussion	Conversation, debate, case studies	
and decision on experimental part – due week 9		
6. Translation of selected documents and writing the	Conversation, debate, case studies	
paper – first draft of the report – due week 12		
7. Final form of the report – due week 14	Evaluation	
Ribliography		

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	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,	
activities	corresponding mark, on a 10-point scale. A	research report	
	penalty of 1pt per week are considered for		
	delays. The weights are as follows:		
	1 4:41, (100/)		100/
	1. title (10%)		10%
	2. documentation (10%)		10%
	3. contents v1.0 (10%)		10%
	4. assigning sources to structure (20%)		20%
	5. original contrib + experimental (10%)		10%
	6. final version of the paper (40%)		40%
10.6 Minimum perf	ormance standards		
At least grad	de 6 (from a scale of 1 to 10)		

Date 30.04.2017	Signature of course coordinator Prof.Dr. Horia F. Pop	Signature of seminar coordinator Prof. Dr. Horia F. Pop
Date of appr	oval	Signature of the head of department

Date of approval Signature of the head of control Prof. Dr. Anca Andreica