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 /	Applied Computational Intelligence
Qualification	

2. Information regarding the discipline

2.1 Name of the	e dis	scipline	Research Project in Applied Computational Intelligence				
2.2 Course coor	rdin	ator		Prof.Dr. Horia F. Po	ор		
2.3 Seminar co	ordi	nator		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	3
				seminar/laboratory	
3.4 Total hours in the curriculum	42	Of which: 3.5 course	0	3.6	42
				seminar/laboratory	
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					20
Tutorship					14
Evaluations					4
Other activities:					-
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3.7 Total individual study hours	58
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 discipline	The research project activity represents the individual work the student performs with the purpose to realize a scientific report 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 the dissertation - know how to write a technical document (dissertation) in many iterations

8. Content

0. C	ontent		
8.1	Course	Teaching methods	Remarks
8.2	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	Conversation, debate,	
	their assignment to the designed structure - due	case studies	
	week 8		
5.	Detecting possible original contribution;	Conversation, debate,	
	discussion and decision on practical part – due	case studies	
	week 9		
6.	Translation of selected documents and writing	Conversation, debate,	
	the paper – first draft of the report – due week 12	case studies	
7.	Final form of the report – due week 14	Evaluation	_
Bil	bliography		

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 Curriculla 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 Seminar/lab	Each of the activities has a	Portofolio, research report				
activities	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 6 (f	rom a scale of 1 to 10)					

Date	Signature of course coordinator	Signature of seminar coordinator
30.04.2015	Prof.Dr. Horia F. Pop	Prof. Dr. Horia F. Pop
Date of appro	val	Signature of the head of department
		Prof. Dr. Bazil Pârv