SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	**"Babes_Bolyai" University**
1.2 Faculty	**Faculty of Mathematics and Computer science**
1.3 Department	**Department of Computer Science**
1.4 Field of study	**Informatics(Computer Science)**
1.5 Study cycle	**Master**
1.6 Study programme / Qualification	**High Performance Computing and Big Data Analytics**

2. Information regarding the discipline

2.1 Name of the discipline	**Finalizing the Dissertation Thesis**					
2.2 Course coordinator		**Assoc.Prof.PhD. Niculescu Virginia**				
2.3 Seminar coordinator		**Assoc.Prof.PhD. Niculescu Virginia**				
2.4. Year of study	**1**	2.5 Semester	**1**	2.6. Type of evaluation	**E.**	2.7 Type of discipline	**Compulsory**

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

3.1 Hours per week	2	Of which: 3.2 course	0	3.3 seminar/laboratory/ project	2 proj.
3.4 Total hours in the curriculum	24	Of which: 3.5 course	0	3.6 seminar/laboratory/ project	24

Time allotment:	hours
Learning using manual, course support, bibliography, course notes	16
Additional documentation (in libraries, on electronic platforms, field documentation)	26
Preparation for seminars/labs, homework, papers, portfolios and essays	16
Tutorship	14
Evaluations	6
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	• Programming skills and basic abilities for dealing with

	abstractions

5. Conditions (if necessary)

5.1. for the course	•
5.2. for the seminar/lab/proj	• Projector, computers(laptops)

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	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 discipline, the student should: - 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
8.2 Seminar /project	Teaching methods	
1. Establishing the thesis title/topic - due week 3	Explanation, dialogue, case studies	
2. . Bibliographical documentation - due week 5.	Dialogue, debate, case studies, examples, proofs	
3. Table of contents: version 1.0 - due week 6	Dialogue, debate, case studies, examples, proofs	
4. Relevance of the bibliographical sources and their assignment to the designed structure - due week 8	Dialogue, debate, explanation, examples	
5. Detecting possible original contribution; discussion and decision on practical part – due week 9	Dialogue, debate, explanation, examples	

6. Translation of selected documents and writing the paper – first draft of the thesis – due week 11	Dialogue, debate, explanation, examples		
7. Final form of the thesis – due week 14	Dialogue, debate, explanation, examples		
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 in the studying program of all major universities in Romania and abroad;

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	Each of the activities has a due date and a corresponding mark, on a 10-point scale. The weights are as follows: 1.title (10%) 2. documentation (20%) 3. table of contents (10%) 4. assigning sources to structure (20%) 5. final version of the thesis (40%)	-presentation -discussion	100%
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

......30.04.2016.........   ....Niculescu Virginia...................Niculescu Virginia

Date of approval   Signature of the head of department

…………………Prof. Dr.Anca Andreica..........….........................