

## SYLLABUS

### 1. Information regarding the programme

1.1 Higher education institution	Babeş Bolyai University
1.2 Faculty	<b>Faculty of Mathematics and Computer Science</b>
1.3 Department	<b>Department of Computer Science</b>
1.4 Field of study	
1.5 Study cycle	
1.6 Study programme / Qualification	<b>Quantum Computing and Communication</b>

### 2. Information regarding the discipline

2.1 Name of the discipline (en)		Proiect					
2.1 Name of the discipline (ro)		Project					
2.2 Course coordinator							
2.3 Seminar coordinator							
2.4. Year of study	<b>1</b>	2.5 Semester	<b>2</b>	2.6. Type of evaluation	<b>E</b>	2.7 Type of discipline	<b>DF</b>
2.8 Code of the discipline	PQE0007						

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

3.1 Hours per week	6	Of which: 3.2 course	0	3.3 seminar/laboratory	2
3.4 Total hours in the curriculum	36	Of which: 3.5 course	0	3.6 seminar/laboratory	20
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					5
Tutorship					5
Evaluations					2
Other activities: .....					
3.7 Total individual study hours	30				
3.8 Total hours per semester	50				
3.9 Number of ECTS credits	2				

### 4. Prerequisites (if necessary)

4.1. curriculum	
4.2. competencies	

### 5. Conditions (if necessary)

5.1. for the course	
5.2. for the seminar /lab activities	

### 6. Specific competencies acquired

<b>Professional competencies</b>	C1.5 Development of program units and corresponding documentation  C3.3 Use of computer science and mathematical models and tools for solving specific problems in the application field
<b>Transversal competencies</b>	CT2 Efficient fulfilment of organized activities.

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

7.1 General objective of the discipline	<ul style="list-style-type: none"> <li>The course represents the individual work the student performs with the purpose to prepare a project in the field of quantum computing.</li> </ul>
7.2 Specific objective of the discipline	<ul style="list-style-type: none"> <li>At the completion of this course, the student should: have documentation abilities on an established topic, know how to write a technical document (research paper) in many iterations, know how to conduct a small size research project, use research methodologies.</li> </ul>

### 8. Content

8.1 Course	Teaching methods	Remarks
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

11.		
8.2 Seminar / laboratory	Teaching methods	Remarks
1.		
2.		
3.		
4.		
5.		
6.		
7.		
Bibliography		

**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**

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| <ul style="list-style-type: none"> <li>The course respects the IEEE and ACM Curricula Recommendations for Software Engineering studies;</li> </ul> |
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**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	Implements the project	Practical examination	100
10.6 Minimum performance standards			
➤ Grade 5			

Date

Signature of course coordinator

Signature of seminar coordinator

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Date of approval

Signature of the head of department

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Prof. dr. Laura Dioşan