

## SYLLABUS

### 1. Information regarding the programme

1.1 Higher education institution	<b>Babeş-Bolyai University</b>
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	<b>Computer Science</b>
1.5 Study cycle	<b>Master</b>
1.6 Study programme / Qualification	<b>Cyber Security</b>

### 2. Information regarding the discipline

2.1 Name of the discipline (en) (ro)	Agile Project Management Metodologii agile de management al proiectelor						
2.2 Course coordinator	Lect. Dr. Suciu Dan Mircea						
2.3 Seminar coordinator	Lect. Dr. Suciu Dan Mircea						
2.4. Year of study	<b>1</b>	2.5 Semester	<b>1</b>	2.6. Type of evaluation	<b>E</b>	2.7 Type of discipline	<b>Optional</b>
2.8 Code of the discipline	<b>MME8193</b>						

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

3.1 Hours per week	4	Of which: 3.2 course	2	3.3 seminar/laboratory	1 S 1 LP
3.4 Total hours in the curriculum	56	Of which: 3.5 course	28	3.6 seminar/laboratory	28
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					15
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					20
Tutorship					4
Evaluations					10
Other activities: .....					
3.7 Total individual study hours	69				
3.8 Total hours per semester	125				
3.9 Number of ECTS credits	5				

### 4. Prerequisites (if necessary)

4.1. curriculum	.
4.2. competencies	.

## 5. Conditions (if necessary)

5.1. for the course	· Video projector
5.2. for the seminar /lab activities	· Video projector

## 6. Specific competencies acquired

<b>Professional competencies</b>	<p>C3.1 Identifying classes of problems and solving methods that are specific to computing systems</p> <p>C3.2 Using interdisciplinary knowledge, solution patterns and tools, making experiments and interpreting their results</p> <p>C3.3 Applying solution patterns using specific engineering tools and methods</p> <p>C3.4 Comparatively and experimentally evaluation of the alternative solutions for performance optimization</p> <p>C3.5 Developing and implementing information system solutions for concrete problems</p>
<b>Transversal competencies</b>	<p>CT1 Honorable, responsible, ethical behavior, in the spirit of the law, to ensure the professional reputation</p> <p>CT2 Identifying, describing and conducting processes in the projects management field, undertaking different team roles and clearly and concisely describing own professional results, verbally or in writing, in Romanian and in an international language.</p> <p>CT3 Demonstrating initiative and pro-active behavior for updating professional, economical and organizational culture knowledge</p>

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

7.1 General objective of the discipline	· acquiring knowledge and skills necessary for a process of management of IT projects
7.2 Specific objective of the discipline	<ul style="list-style-type: none"> <li>· identifying the aspects that make Agile methodologies superior to predictive methodologies for software projects</li> <li>· identifying the strengths and weaknesses of each of today Agile practices</li> <li>· identifying the life cycle of a software project in an Agile context</li> </ul>

## 8. Content

8.1 Course	Teaching methods	Remarks
1. Introduction in Agile Methodologies	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	

2, 3, 4. Scrum – Roles, Ceremonies, Artefacts	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	
5, 6. Extreme Programming	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	
7. Lean Software Development	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	
8, 9. Kanban	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	
10. Other Agile Methodologies: DSDM, Crystal	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	
11. Other Agile Methodologies: Agile Unified Process, Feature Driven Development	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Explanation</li> <li>· Conversation</li> <li>· Didactical demonstration</li> </ul>	
12. Agile Contracts	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Conversation</li> </ul>	
13. Risk Management in an Agile Environment	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Conversation</li> </ul>	
14. The future of Agile	<ul style="list-style-type: none"> <li>· Interactive exposure</li> <li>· Conversation</li> </ul>	
<b>Bibliography</b> <ol style="list-style-type: none"> <li>1. Jeff Langr, Tim Ottinger - Agile in a Flash: Speed-Learning Agile Software Development, Pragmatic Bookshelf, 2011</li> <li>2. Esther Derby, Diana Larsen - Agile Retrospectives: Making Good Teams Great, Pragmatic Bookshelf, 2006</li> <li>3. Thomas Stober, Uve Hansmann - Agile Software Development, Best Practices for Large Software Development Projects, Springer 2010</li> <li>4. Mike Cohn - Succeeding with Agile Software Development using Scrum, Addison-Wesley, 2010</li> </ol>		

5. Mike Cohn - User Stories Applied, For Agile Software Development, Addison-Wesley, 2004		
8.2 Laboratory	Teaching methods	Remarks
1. Leadership and management	Dialogue, debate, case studies, examples, proofs	The seminar is structured as 2 hours classes every second week
2. Customer Alignment	Dialogue, debate, case studies, examples, proofs	
3, 4. Emotional intelligence	Dialogue, debate, case studies, examples, proofs	
5. Cultural awareness	Dialogue, debate, case studies, examples, proofs	
6. Coaching	Dialogue, debate, case studies, examples, proofs	
7. Self-Organizing Teams	Dialogue, debate, case studies, examples, proofs	
<b>Bibliography</b>		
<ul style="list-style-type: none"> <li>1. Tom Demarco - Waltzing with Bears Managing Risks On Software Projects</li> <li>2. Patrick Lencioni - The Five Dysfunctions of a Team, Jossey-Bass, 2002</li> <li>3. Daniel Goleman - Leadership: The Power of Emotional Intelligence, More Than Sound, 2011</li> </ul>		
8.2 Seminar	Teaching methods	Remarks
1. Leadership and management	Dialogue, debate, case studies, examples, proofs	The seminar is structured as 2 hours classes every second week
2. Customer Alignment	Dialogue, debate, case studies, examples, proofs	
3, 4. Emotional intelligence	Dialogue, debate, case studies, examples, proofs	
5. Cultural awareness	Dialogue, debate, case studies, examples, proofs	
6. Coaching	Dialogue, debate, case studies, examples, proofs	
7. Self-Organizing Teams	Dialogue, debate, case studies, examples, proofs	
<b>Bibliography</b>		
<ul style="list-style-type: none"> <li>4. Tom Demarco - Waltzing with Bears Managing Risks On Software Projects</li> <li>5. Patrick Lencioni - The Five Dysfunctions of a Team, Jossey-Bass, 2002</li> <li>6. Daniel Goleman - Leadership: The Power of Emotional Intelligence, More Than Sound, 2011</li> </ul>		

**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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**10. Evaluation**

Type of activity	Evaluation criteria	Evaluation methods	Share in the grade (%)
Course	- know the basic principle of the domain; - apply the course concepts - problem solving	completion of individual missions that will be - activated weekly	80%
Seminar/lab activities	- problem solving	- oral examination - Continuous observations	20%
Minimum performance standards			
· The final grade should be at least grade 5 (from a scale of 1 to 10)			

Date

**20.05.2024**

Signature of course coordinator

**Lect. Dr. Dan-Mircea Suci**

Signature of seminar coordinator

**Lect. Dr. Dan-Mircea Suci**

Date of approval

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Signature of the head of department

**Assoc prof. PhD. Sterca Adrian**