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 /	Distributed Systems in Internet
Qualification	

2. Information regarding the discipline

2.1 Name of the di	scipline	Agile Software Development				
2.2 Course coordinator Lect. 1			Lect. PhD Dan Mircea	Suci	u	
2.3 Seminar coordinator			Lect. PhD Dan Mircea Suciu			
2.4. Year of study 1	2.5 Semester	1	2.6. Type of evaluation	Е	2.7 Type of	Compulsory
					discipline	

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

3.1 Hours per week	4	Of which: 3.2 course	2	3.3	1sem
				seminar/laboratory	+ 1 pr
3.4 Total hours in the curriculum	56	Of which: 3.5 course	28	3.6	28
				seminar/laboratory	
Time allotment:				·	Hours
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					10
Preparation for seminars/labs, homework, papers, portfolios and essays					15
Tutorship					2
Evaluations					3
Other activities:				-	
3.7 Total individual study hours		119			
3.8 Total hours per semester		175			

4. Prerequisites (if necessary)

3.9 Number of ECTS credits

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4.1. curriculum	-
4.2. competencies	-

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5. Conditions (if necessary)

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

6. Specific competencies acquired

orspecific	
Professional competencies	 Identification and understanding of basic concepts of the following specific Agile methodologies: Scrum, Extreme Programing, Kanban, Lean Software Development. Identification and explanation of basic Agile practices
Transversal competencies	 Formal communication in organizations Project task time and effort estimation Change management

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	 identifying the aspects that make Agile methodologies superior to predictive methodologies for software projects identifying the strengths and weaknesses of each of today Agile practices identifying the life cycle of a software project in an Agile context

8. Content

8.1 Course	Teaching methods	Remarks
1. Introduction in Agile Methodologies	Interactive exposureExplanation	
1. Introduction in Agne Methodologies	 Conversation Didactical demonstration 	
2, 3, 4. Scrum – Roles, Ceremonies, Artefacts	 Interactive exposure Explanation Conversation Didactical demonstration 	
5, 6. Extreme Programing	 Interactive exposure Explanation Conversation Didactical demonstration 	
7. Lean Software Development	 Interactive exposure Explanation Conversation Didactical demonstration 	

	• Interactive	
	exposure	
8 – 9. Kanban	 Explanation 	
8 – 9. Kalibali	Conversation	
	Didactical	
	demonstration	
	• Interactive	
	exposure	
	• Explanation	
10. Other Agile Methodologies: DSDM, Crystal	Conversation	
	Didactical	
	demonstration	
	Interactive	
	exposure	
11. Other Agile Methodologies: Agile Unified	Explanation	
Process, Feature Driven Development	Conversation	
Tiocess, readure Driven Development	Didactical	
	demonstration	
	• Interactive	
12. Agile Contracts	exposure	
	Conversation	
	• Interactive	
13. Risk Management in an Agile Environment	exposure	
	Conversation	
	• Interactive	
14. The future of Agile	exposure	
	exposure • Conversation	
 Bibliography 1. Jeff Langr, Tim Ottinger - Agile in a Flash: Sp Pragmatic Bookshelf, 2011 2. Esther Derby, Diana Larsen - Agile Retrospection 	Conversation	-
 Bibliography 1. Jeff Langr, Tim Ottinger - Agile in a Flash: Sp Pragmatic Bookshelf, 2011 2. Esther Derby, Diana Larsen - Agile Retrospecti Bookshelf, 2006 	Conversation eed-Learning Agile Softwar ives: Making Good Teams C	Great, Pragmatic
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- Tom Demarco Waltzing with Bears Managing Risks On Software Projects
 Patrick Lencioni The Five Dysfunctions of a Team, Jossey-Bass, 2002

3. Daniel Goleman - Leadership: The Power of Emotional Intellegence, More Than Sound, 2011

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

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 	Written exam	95%
Seminar/lab activities	Evaluation of a 15 minutes optional presentation about applying Agile practices in real projects	 oral examination Continuous observations 	5%
Minimum performance st	andards		
The final grade sho	uld be at least grade 5 (from a	scale of 1 to 10)	

Signature of course coordinator	Signature of seminar coordinator
Lect. PhD. Dan Mircea Suciu	Lect. PhD. Dan Mircea Suciu

Signature of the head of department