SYLLABUS

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	Bachelor			
1.6 Study programme /	Computer Science			
Qualification				

1. Information regarding the programme

2. Information regarding the discipline

2.1 Name of the dis	cipline	(en)	Int	Internship			
(ro)			Practică				
2.2 Course coordina	ator		-	-			
2.3 Seminar coordin	nator		Assoc. Prof. PhD. Sanda-Maria Avram				
2.4. Year of study	3	2.5 Semester	52.6. Type of evaluationE2.7 Type of disciplinecompulsory			compulsory	
2.8 Code of the discipline MLE7001					·		

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

3.1 Hours per week	1	Of which: 3.2	course		3.3 seminar/laboratory	1
3.4 Total hours in the curriculum	14	Of which: 3.5	course	-	3.6 seminar/laboratory	14
Time allotment:						
Learning using manual, course support, bibliography, course notes						22
Additional documentation (in libraries, on electronic platforms, field documentation)						22
Preparation for seminars/labs, homework, papers, portfolios and essays					18	
Tutorship						18
Evaluations						6
Other activities:						
3.7 Total individual study hours86						
3.8 Total hours per semester100						

3.9 Number of ECTS credits4

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	• Special technical activities are required: programming, testing,
activities	analysis and design

6. Specific competencies acquired

C2.1 Identification of appropiate methodologies for software development
C2.3 Use of methodologies, specification mechanism and development frameworks for developing software applicationsC2.5 Development of dedicated software projects
CT1 Apply rules to: organized and efficient work, responsibilities of didactical and scientific
activities and creative capitalization of own potential, while respecting principles and rules for professional ethics
CT2 Efficient progress of group activities and development of communications skills and collaboration
CT3 Use efficient methods and techniques for learning, knowledge gaining, and research and develop capabilities for capitalization of knowledge, accomodation to society requirements and communication in English

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

7.1 General objective of the discipline	• Ganing abilities to execute a product/program in teams, writing project decomentation. Under the supervision of a specialize internship tutor and academic staff.
7.2 Specific objective of the	• Execute a product/program in teamwork
discipline	Write necessary documentations
	Public project presentation

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Theme presentation (problem statement) to be	Exposure,	
solved and establish team roles	description,	
	explanation	
2. Develop detailed specifications of the project	Dialog lecture,	
	discussions, team	
	debate	
3. Project analysis: entities and relations	Dialog lecture,	
identification, use scenarios, data flow diagrams	discussions, team	
	debate	

4. Design: conceptual data model, logical data model, computation design, physical data model, user interface, application architecture	Questioning, discovery
5. Implementation and testing	Case study, cooperation
6. Integration Testing; documentations	Questioning
7. Project presentation in front of the evaluators	Evaluation

- Bibliography
 - M. Frentiu, I. Lazăr, Bazele Programării: Proiectarea Algoritmilor, 2000, Ed. Univ. Petru Maior, Tg.Mureş
 - 2. M. Frentiu, I. Lazăr, S. Motogna, V. Prejmerean, Elaborarea algoritmilor, Ed. Presa Universitară, Clujeana, Cluj-Napoca, 1998,
 - 3. B. Pârv, Analiza și proiectarea sistemelor, Universitatea Babeș-Bolyai, Centrul de Formare Continua si Învatamânt la Distanță, Facultatea de Matematică și Informatică, Cluj-Napoca, ed. a III-a, 2003.
 - 4. Țâmbulea, L., Baze de date, Litografiat Cluj-Napoca 2001.

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;
- Offers an overall perspective of Computer Science domains, and a general expertise for the student;
- Offers basic knowledge about teamwork and integration in a software company.

10. Evaluation

10. Evaluation			
Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the
51 5			-1-(0/)
			grade (%)
10.4 Course			
10.1 Course			
10.5 Seminar/lab activities		Presentation	50%
10.5 Seminal/lab activities		Tresentation	3070
		Documentations	50%
10.6 Minimum performance	e standards		
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Date	Signature of course coordinator	Signature of seminar coordinator
22.04.2018		Assoc. Prof. PhD. Sanda-Maria Avram
Date of approval	Sig	nature of the head of department
		Prof. PhD. Anca Andreica