SYLLABUS

1. Information regarding the programme

1.1 Higher education	"Babeş-Bolyai" University Cluj-Napoca
institution	
1.2 Faculty	Mathematics and Computer Science
1.3 Department	Mathematics
1.4 Field of study	Mathematics
1.5 Study cycle	Bachelor
1.6 Study programme /	Mathematics and Computer Science
Qualification	

2. Information regarding the discipline

2.1 Name of the discipline (en)		Internship in Computer Science (Practica de specialitate in					
(ro)			informatica)				
2.2 Course coordinator			Conf. Univ. dr. Teodora Cătinaș				
2.3 Seminar coordinator		Conf. Univ. dr. Teodora Cătinaș					
2.4. Year of study	3	2.5 Semester	tel 5 2.6. Type of C 2.7 Type of Opti			Optional	
				evaluation		discipline	
2.8 Code of the MLE2032							
discipline							

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

3.1 Hours per week	1	Of which: 3.2 course	0	3.3	1
				seminar/laboratory	
3.4 Total hours in the curriculum	14	Of which: 3.5 course	0	3.6	14
				seminar/laboratory	
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					30
Tutorship					12
Evaluations				4	
Other activities:					
A		0.4			

3.7 Total individual study hours	86
3.8 Total hours per semester	100
3.9 Number of ECTS credits	4

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

o. Specin	ic competencies acquired
Sa	• C1.1: Identifications of notions, descriptions of theories and use of the specific language
tenci	C 2.1 Identification of appropriate methodologies for software development
Professional competencies	 C2.3 Use of methodologies, specification mechanism and development frameworks for developing software applications
siona	• C2.5 Development of dedicated software projects
Profes	• C5.3: Construction and development of logic proofs for some mathematical results, with identification of hypotesis and conclusions
rsal	 CT1 Application of efficient and organized work rules, of responsible attitudes towards the didactic-scientific domain, to creatively value one's own potential, with the respect towards the principles and norms of professional etic. CT2 Efficient progress of group activities and development of communications skills and collaboration
Transversal competencies	 CT3 Use of efficient methods and techniques to learn, inform, research and develop the abilities to value the knowledge, to adapt to requirements of a dynamic society and to communicate in Romanian language and in a language of international circulation.

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

7.1 General objective of the discipline	 Abilities of applying theoretical knowledge gained during the studies. Gaining abilities to execute a product/program in teams, writing project documentation, under the supervision of a specialize internship tutor and academic staff.
7.2 Specific objective of the discipline	 Ability of application of some theoretical concepts Ability of oral and writing comunication of ideas and concepts Ability of solving specific problems from computer science Execute a product/program in teamwork Write necessary documentations Public project presentation

8. Content

8.1 Course	Teaching methods	Remarks

Bibliography

^[1] M. FRENTIU, I. LAZAR, Bazele Programării: Proiectarea Algoritmilor, 2000, Ed. Univ. Petru Maior, Tg.Mureș

^[2] M. FRENTIU, I. LAZAR, S. MOTOGNA, V. PREJMEREAN, Elaborarea algoritmilor, Ed. Presa

Universitara, Clujeana, Cluj-Napoca, 1998

[3]. B. PARV, Analiza si proiectarea sistemelor, Universitatea Babes-Bolyai, Centrul de Formare Continua si Învatamânt la Distanta, Facultatea de Matematica si Informatica, Cluj-Napoca, ed. a III-a, 2003. [4] L. TAMBULEA, 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;
- The course offers an overall perspective of Mathematics and Computer Science domains, and a general expertise for the student;
- The course offers basic knowledge about teamwork and integration in work market.

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		The institution tutor assesses the performance of the interns.	100%
10.6 Minimum performance	e standards		
At least grade 5 (fro	om a scale of 1 to 10)		

Date	Signature of course coordinator	Signature of seminar coordinator
19.04.2023	That.	Conf. Dr. Teodora Cătinaș

Date of approval	Signature of the head of department
	Prof. Dr. Andrei Mărcuș