

SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	Babeş Bolyai University
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 / Qualification	Cyber Security

2. Information regarding the discipline

2.1 Name of the discipline (en) (ro)	Project in Cybersecurity Proiect în securitate cibernetică						
2.2 Course coordinator	Assoc. Prof. PhD. Dărăbant Adrian						
2.3 Seminar coordinator	Assoc. Prof. PhD. Dărăbant Adrian						
2.4. Year of study	2	2.5 Semester	4	2.6. Type of evaluation	C	2.7 Type of discipline	Compulsory
2.8 Code of the discipline	MME8204						

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

3.1 Hours per week	3	Of which: 3.2 course	0	3.3 seminar/laboratory	3
3.4 Total hours in the curriculum	36	Of which: 3.5 course	0	3.6 seminar/laboratory	36
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					24
Additional documentation (in libraries, on electronic platforms, field documentation)					24
Preparation for seminars/labs, homework, papers, portfolios and essays					36
Tutorship					24
Evaluations					6
Other activities:					-
3.7 Total individual study hours	114				
3.8 Total hours per semester	150				
3.9 Number of ECTS credits	6				

4. Prerequisites (if necessary)

4.1. curriculum	Computer Science Research Methodology
4.2. competencies	

5. Conditions (if necessary)

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

6. Specific competencies acquired

Professional competencies	Analysis and formalization of problems requiring cybersecurity knowledge Use of cybersecurity knowledge in problems solving Analysis, design, and implementation of software systems in the field of cybersecurity Proficient use of methods and tools specific to cybersecurity
Transversal competencies	Professional communication skills; concise and precise description, both oral and written, of professional results

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

7.1 General objective of the discipline	This project represents the individual work the student performs with the purpose to realize a scientific report on a given research topic. This project is associated to the internship project: the research project is the scientific and experimental documentation
7.2 Specific objective of the discipline	At the completion of this course, the student should: - have documentation abilities on an established topic - be able to design the table of contents of the research report - know how to write a technical document (research report) in many iterations

8. Content

8.1 Course	Teaching methods	Remarks
8.2 Seminar / laboratory	Teaching methods	Remarks
1. Establishing the research title/topic 2. Bibliographical documentation 3. Table of contents: version 1.0 4. Relevance of the bibliographical sources and their assignment to the designed structure 5. Detecting possible original contribution; implementation and experimental evaluation	Conversation, debate, case studies	

6. Processing of selected documents and writing the paper – first draft of the report		
7. Final form of the research report	Evaluation	
Bibliography - to be decided by student based on his/her research topic - Internet resources, books, scientific papers		

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;
- The course exists at the major universities in Romania offering similar study programs;
- Graduating a master program assumes experience in developing a research project

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	Project evaluation	Each activity has a deadline and is graded with a grade between 1 and 10. Penalties of 1 point for each week passed the deadline. 3 research reports should be delivered: <ul style="list-style-type: none"> • Report 1: deadline – week 4 • Report 2: deadline – week 6 • Report 3: deadline – week 10 Presentation	80% 20% 10% 20% 50% 20%
10.6 Minimum performance standards			
At least grade 5 (from a scale of 1 to 10)			

Date

01.06.2022

Signature of course coordinator

Assoc. Prof. PhD. Dărăbant Adrian

Signature of seminar coordinator

Assoc. Prof. PhD. Dărăbant Adrian

Date of approval

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Signature of the head of department

Prof. PhD. Dioșan Laura