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COURSE SYLLABUS

Academic year 2024 - 2025

1. Programme Information

1.1. Higher education institution	Lucian Blaga University of Sibiu
1.2. Faculty	Faculty of Science
1.3. Department	Mathematics and Informatics
1.4. Field of study	Informatics
1.5. Level of study ¹	Master
Programme of study/qualification	Cybersecurity

2. Course Information

2.1.	Name of course	Prac	ctical a	ectivity				Code	FSTI.MAI.CS.W .2.P.C-3.6	1.SO
2.2.	Course coordinator	Lect	ecturer PhD. Cristina Cismas							
2.3.	Seminar/laboratory coordinator	Lect	ecturer PhD. Cristina Cismas							
2.4.	Year of study ²	1	2.5.	Semest	ter³	2	2.6. Ev	aluatio	on form⁴	С
2.7.	Course type ⁵			R	2.8. The formative	cate	egory of	the cou	ırse ⁶	S

3. Estimated Total Time

3. Estimated rotai	rime					
3.1. Course Extens	sion within the Curricul	um – Number of Hours	s per Week			
3.1.a. Lecture	ecture 3.1.b. Seminar 3.1.c. Laboratory 3.1.d. Project To					
-	0					
3.2. Course Extens	sion within the Curricul	um – Total Number of	Hours within the Curri	culum		
3.2.a. Lecture	3.2.b. Seminar	3.2.c. Laboratory	3.2.d. Project	To	otal ⁷	
-	-	-	-	0		
Time Distribution	for Individual Study ⁸				Hours	
Learning by using c	ourse materials, refere	ences and personal no	tes		5	
Additional learning by using library facilities, electronic databases and on-site information						
Preparing seminars / laboratories, homework, portfolios and essays						
Tutorial activities ⁹						
Exams ¹⁰						
3.3. Total Individual Study Hours ¹¹ (NOSI _{sem}) 75						
3.4. Total Hours in the Curriculum (NOAD _{sem}) 0						
3.5. Total Hours per Semester ¹² (NOAD _{sem} + NOSI _{sem}) 75						
3.6. No. of Hours / ECTS 25						
3.7. Number of credits ¹³ 3						

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4.1. Courses that must be successfully completed first (from the curriculum) ¹⁴	-
4.2. Competencies	-

5. Conditions (where applicable)

5.1. For course/lectures ¹⁵	There are no course activities. The practice takes place within software companies or in IT services from economic and social units, based on practice conventions
5.2. For practical activities (lab/sem/pr/app) 16	There are no practical activities. The practice takes place within software companies or in IT services from economic and social units, based on practice conventions

6. Specific competencies acquired¹⁷

	Number of credits assigned to the discipline ¹⁸ ³				
6.1.	PC1	The ability to apply the theory in specific situations of the economic and institutional environment;	0.5		
Professional competencies	PC2	PC2 The ability to explain and interpret ideas, projects, processes.			
-	PC3	The ability to use programming languages and frameworks	0.5		
26.2.	TC1	Developing a positive attitude towards work and responsibility for one's own professional training.	0.5		
Transversal	TC2	Developing the teamwork spirit.	0.5		
competencies	TC3	Ability to interpret the results obtained	0.5		

7. Course objectives (resulted from developed competencies)

7.1.	Main course objective	•	Familiarization with the latest and most advanced knowledge developments in the IT field
1.1.	Specific	•	Comparing new knowledge with traditional ones and the ability to establish
	course		relationships between them, in order to identify new directions for deepening
	objectives		knowledge and developing the profession.

8. Content

8.1. Lectures ²⁰	Teaching methods ²¹	Hours
	Total lecture hours:	0

8.2. Practical activities (8.2.a. Seminar ²² / 8.2.b. Laboratory ²³ / 8.2.c. Project ²⁴)	Teaching methods	Hours		
Total seminar/laboratory hours:				

9. Bibliography

- 1		
9.1.	Recommended	Documents specific to the company and projects assigned in the internship
	Bibliography	
9.2.	Additional	
	Bibliography	

Ministry of Education Lucan Blaga University of Sibiu

Faculty of Sciences

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10. Conjunction of the discipline's content with the expectations of the epistemic community, professional associations and significant employers of the specific study program²⁵

The practice takes place within software companies or in IT services from economic and social units, based on practice conventions

11. Evaluation

Activity Type	11.1 Evaluation Criteria	11.2 Evaluation I	Methods	11.3 Percentage in the Final Grade	Obs. ²⁶		
	Theoretical and practical	Tests during the semester ²⁷ :	%		CEF		
11.4a Exam /	knowledge acquired	Homework:	%	5% (minimum 5)			
Colloquy	(quantity, correctness, accuracy)	Other activities ²⁸ :	%	,			
	accuracy)	Final evaluation:	50%				
11.4b Seminar	Frequency/relevance of participation or responses	Evidence of participation, portfolio of papers (reports, scientific summaries)		5% (minimum 5)	nCPE		
11.4c Laboratory	 Knowledge of the equipment, how to use specific tools; evaluation of tools, processing and interpretation of results 	 Written questionnaire Oral response Laboratory notebook, experimental works, reports, etc. Practical demonstration 		5% (minimum 5)	nCPE		
11.4d Project	The quality of the project, the correctness of the project documentation Self-evaluation, project		85% (minimum 5)	nCPE			
11.5 Minimum performance standard ²⁹ Implementing the application with at least 30% of the functionalities, writing at least the first chapter (motivation, state of the art, specification of the paper's theme) and the second chapter (application design, choice of technologies and motivation of their choice)							

The Course Syllabus will encompass components adapted to persons with special educational needs (SEN - people with disabilities and people with high potential), depending on their type and degree, at the level of all curricular elements (skills, objectives, contents, teaching methods, alternative assessment), in order to ensure fair opportunities in the academic training of all students, paying close attention to individual learning needs.

Filling Date: |_0_|_5_|/|_0_|_9_|/|_2_|_0_|_2_|_4_|

Department Acceptance Date: |_0_|_6_|/|_0_|_9_|/|_2_|_0_|_2_|_4_|

	Academic Rank, Title, First Name, Last Name	Signature
Course Teacher	Lecturer PhD. Cristina Cismas	
Study Program Coordinator	Lecturer PhD. Daniel Hunyadi	
Department Head	Professor PhD. Mugur Acu	

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¹ Bachelor / Master

- ⁴ Exam, colloquium or VP A/R from the curriculum
- ⁵ Course type: R = Compulsory course; E = Elective course; O = Optional course
- ⁶ Formative category: S = Specialty; F = Fundamental; C = Complementary; I = Fully assisted; P = Partially assisted; N = Unassisted
- ⁷ Equal to 14 weeks x number of hours from point 3.1 (similar to 3.2.a.b.c.)
- ⁸ The following lines refer to individual study; the total is completed at point 3.37.
- ⁹ Between 7 and 14 hours
- 10 Between 2 and 6 hours
- ¹¹ The sum of the values from the previous lines, which refer to individual study.
- ¹² The sum (3.5.) between the number of hours of direct teaching activity (NOAD) and the number of hours of individual study (NOSI) must be equal to the number of credits assigned to the discipline (point 3.7) x no. hours per credit (3.6.) ¹³ The credit number is computed according to the following formula, being rounded to whole neighbouring values (either

$$No.credits = \frac{NOCpSpD \times C_C + NOApSpD \times C_A}{TOCpSdP \times C_C + TOApSdP \times C_A} \times 30 credits$$

Where:

- NOCpSpD = Number of lecture hours / week / discipline for which the credits are calculated
- NOApSpD = Number of application hours (sem./lab./pro.) / week / discipline for which the credits are calculated
- TOCpSdP = Total number of course hours / week in the Curriculum
- TOApSdP = Total number of application hours (sem./lab./pro.) / week in the Curriculum
- C_C/C_A = Course coefficients / applications calculated according to the table

Coefficients	Course	Applications (S/L/P)
Bachelor	2	1
Master	2,5	1,5
Bachelor - foreign language	2,5	1,25

¹⁴ The courses that should have been previously completed or equivalent will be mentioned

² 1-4 for bachelor, 1-2 for master

³ 1-8 for bachelor, 1-3 for master

¹⁵ Board, video projector, flipchart, specific teaching materials, online platforms, etc.

¹⁶ Computing technology, software packages, experimental stands, online platforms, etc.

¹⁷ Competences from the Grids related to the description of the study program, adapted to the specifics of the discipline 18 From the curriculum

¹⁹ The credits allocated to the course are distributed across professional and transversal competences according to the specifics of the discipline

²⁰ Chapter and paragraph titles

²¹ Exposition, lecture, board presentation of the studied topic, use of video projector, discussions with students (for each chapter, if applicable)

²² Discussions, debates, presentations and/or analyses of papers, solving exercises and problems

²³ Practical demonstration, exercise, experiment

²⁴ Case study, demonstration, exercise, error analysis, etc.

²⁵ The relationship with other disciplines, the usefulness of the discipline on the labour market

²⁶ CPE – Conditions Exam Participation; nCPE – Does Not Condition Exam Participation; CEF - Conditions Final Evaluation; N/A – not applicable

²⁷ The number of tests and the weeks in which they will be taken will be specified

²⁸ Scientific circles, professional competitions, etc.

²⁹ The minimum performance standard in the competence grid of the study program is customized to the specifics of the discipline, if applicable