Lucan Blaga University of Sibiu Faculty of Sciences

Tel.: +40 269 21.66.42

Fax: +40 269 21.66.17

E-mail: stiinte@ulbsibiu.ro

COURSE SYLLABUS

Academic year 2025 - 2026

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	Dise	ertation	n prepa	ıration				FSTI.MAI.CS.M P.C-3.6	I.SO.4.
2.2.	Course coordinator	Lect	ecturer PhD. Ionela Maniu							
2.3.	Seminar/laboratory coordinator	Lect	ecturer PhD. Ionela Maniu							
2.4.	Year of study ²	2	2.5. \$	Semes	ter³	2	2.6. Ev	/aluatic	on form ⁴	С
2.7. Course type ⁵			R	2.8. The formative	cate	egory of	the cou	urse 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 3.1.b. Seminar 3.1.c. Laboratory 3.1.d. Project Total					
-	0				
3.2. Course Extens	sion within the Curricul	um – Total Number of	Hours within the Curr	iculum	
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 o	ourse materials, refere	ences and personal no	tes		5
Additional learning by using library facilities, electronic databases and on-site information					10
Preparing seminars / laboratories, homework, portfolios and essays					49
Tutorial activities9					7
Exams ¹⁰					4
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					



Ministry of Education and Research Lucan Blaga University of Sibiu Faculty of Sciences

Tel.: +40 269 21.66.42

Fax: +40 269 21.66.17

E-mail: stiinte@ulbsibiu.ro

4. Prere	quisites ((if needed)
----------	------------	-------------

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, only individual activity, supervised by the master's coordinator
5.2. For practical activities (lab/sem/pr/app) 16	There are no course activities, only individual activity, supervised by the master's coordinator

6. Learning Outcomes 17

	Number of credits assigned to the discipline: 3					
		Learning outcomes		Credit distribution		
Nr. crt.	Knowledge	Skills	Responsibility and autonomy	by learning outcomes		
LO 1	requirements for preparing a dissertation	The student applies documentation and writing methods according to scientific standards.	The student demonstrates responsibility in complying with citation rules and avoiding plagiarism.	1		
LO 2	The student describes research methods and techniques relevant to the field of study.	The student selects and uses appropriate tools for data analysis and interpretation.	The student assumes responsibility for the methodological accuracy of the research.	1		
LO 3		The student develops a work plan and prepares partial content of the thesis.	The student shows autonomy in organizing research activities and meeting deadlines.	1		

7. Course objectives (resulted from developed competencies)

	The ability to complete a dissertation;
	Knowing the stages followed in the design, writing and editing of a dissertation work;
7.1. Main course	Approaching and solving new cognitive and professional problems;
objective	Comparing new knowledge with traditional ones and the ability to establish
	relationships between them, in order to identify new directions for approaching a
	topic of research and development of software products
7.0 Chasifia	Ability to develop and implement IT projects.
7.2. Specific course	Ability to work individually.
objectives	The ability to carry out scientific research
ODJOCHVOS	The ability to respect the principles of ethics in scientific research in informatics

8. Content

8.1. Lectures ¹⁸	Teaching methods ¹⁹	Hours
	Total lecture hours:	0



Lucan Blaga University of Sibiu Faculty of Sciences

Tel.: +40 269 21.66.42

Fax: +40 269 21.66.17

E-mail: stiinte@ulbsibiu.ro

8.2. Practical activities (8.2.a. Seminar ²⁰ / 8.2.b. Laboratory ²¹ / 8.2.c. Project ²²)	Teaching methods	Hours
Total	seminar/laboratory hours:	0

9. Bibliography

9.1. Recommended	1.	Formatting and evaluation guides for bachelor's/dissertation papers
Bibliography		http://stiinte.ulbsibiu.ro/info/info/info_studenti/licenta_disertatie/2021/
9.2. Additional	2.	The bibliography specific to each individual work, established following
Bibliography		discussions with the coordinator of the dissertation work

10. Conjunction of the discipline's content with the expectations of the epistemic community, professional associations and significant employers of the specific study program²³

The dissertation is the one that certifies the acquisition by a graduate of the skills and abilities necessary to engage in the field at the level of a master's graduate. Dissertation topics are set taking into account the needs of the IT market, or even together with IT companies (dual supervision).

11. Evaluation

Activity Type	11.1 Evaluation Criteria	11.2 Evaluation Methods		11.3 Percentage in the Final Grade	Obs. ²⁴
	Theoretical and practical	Tests during the semester ²⁵ :	%		CEF
11.4a Exam /	knowledge acquired	Homework:	%	50% (minimum 5)	
Colloquy	(quantity, correctness, accuracy)	Other activities ²⁶ :	%	,	
	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, the appropriate justification of the chosen solutions	 Self-evaluation, proj presentation Critical evaluation or 	40% (minimum 5)	nCPE	
11.5 Minimum performance standard ²⁷ 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.



Lucan Blaga University of Sibiu Faculty of Sciences

Tel.: +40 269 21.66.42

Fax: +40 269 21.66.17

E-mail: stiinte@ulbsibiu.ro

Filling Date: |_1_|5_| / |_0_|9_| / |_2_|_0_|2_|5_|

Department Acceptance Date: |_3_|_0_| / |_0_|_9_| / |_2_|_0_|_2_|_5_|

	Academic Rank, Title, First Name, Last Name	Signature
Course Teacher	Lecturer PhD. Ionela Maniu	
Study Program Coordinator	Associated Professor PhD. Nicolae Constantinescu	
Department Head	Professor PhD. Mugur Acu	



Lucan Blaga University of Sibiu Faculty of Sciences

¹ Bachelor / Master

² 1-4 for bachelor, 1-2 for master

³ 1-8 for bachelor, 1-3 for 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 by subtraction or addition

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

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

Str. Dr.I.Ratiu, nr. 5-7 550012, Sibiu, România stiinte.ulbsibiu.ro

Tel.: +40 269 21.66.42 Fax: +40 269 21.66.17

E-mail: stiinte@ulbsibiu.ro

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 Chapter and paragraph titles

¹⁹ Exposition, lecture, board presentation of the studied topic, use of video projector, discussions with students (for each chapter, if applicable)

²⁰ Discussions, debates, presentations and/or analyses of papers, solving exercises and problems

²¹ Practical demonstration, exercise, experiment

²² Case study, demonstration, exercise, error analysis, etc.

²³ The relationship with other disciplines, the usefulness of the discipline on the labour market

²⁴ CPE – Conditions Exam Participation; nCPE – Does Not Condition Exam Participation; CEF - Conditions Final Evaluation; N/A – not applicable

²⁵ The number of tests and the weeks in which they will be taken will be specified

²⁶ Scientific circles, professional competitions, etc.

²⁷ The minimum performance standard in the competence grid of the study program is customized to the specifics of the discipline, if applicable