

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
1.6. Programme of study/qualification	Cybersecurity

2. Course Information

2.1. Name of course	Professional ethics and intellectual property	Code	FSTI.MAI.CS.M.CO .3.2000.C-4.4
2.2. Course coordinator	Lecturer PhD. Ionela Maniu		
2.3. Seminar/laboratory coordinator	Lecturer PhD. Ionela Maniu		
2.4. Year of study ²	2	2.5. Semester ³	1
2.6. Evaluation form ⁴	C		
2.7. Course type ⁵	R	2.8. The formative category of the course ⁶	C

3. Estimated Total Time

3.1. Course Extension within the Curriculum – Number of Hours per Week				
3.1.a. Lecture	3.1.b. Seminar	3.1.c. Laboratory	3.1.d. Project	Total
1	-	-	-	1
3.2. Course Extension within the Curriculum – Total Number of Hours within the Curriculum				
3.2.a. Lecture	3.2.b. Seminar	3.2.c. Laboratory	3.2.d. Project	Total ⁷
14	-	-	-	14
Time Distribution for Individual Study⁸				Hours
Learning by using course materials, references and personal notes				33
Additional learning by using library facilities, electronic databases and on-site information				14
Preparing seminars / laboratories, homework, portfolios and essays				30
Tutorial activities ⁹				7
Exams ¹⁰				2
3.3. Total Individual Study Hours¹¹ (NOS_{Isem})				86
3.4. Total Hours in the Curriculum (NOAD_{sem})				14
3.5. Total Hours per Semester¹² (NOAD_{sem} + NOS_{Isem})				100
3.6. No. of Hours / ECTS				25
3.7. Number of credits¹³				4

4. Prerequisites (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	Classroom, equipped with blackboard, computer, video projector and software
5.2. For practical activities (lab/sem/pr/app) ¹⁶	There are no practical activities.

6. Learning Outcomes¹⁷

Number of credits assigned to the discipline: 4				
Learning outcomes				Credit distribution by learning outcomes
Nr. crt.	Knowledge	Skills	Responsibility and autonomy	
LO 1	The student explains the fundamental notions of professional ethics and the specificities of the IT field.	The student applies ethical principles in analyzing practical situations and IT case studies.	The student demonstrates responsibility in decision-making and adopts professional conduct.	1
LO 2	The student describes concepts of intellectual property, software licensing, and usage rights.	The student correctly uses licensing models and proposes solutions to prevent intellectual property violations.	The student assumes responsibility for compliance with intellectual property legislation.	1
LO 3	The student understands the legislative framework applicable to IT (GDPR, data protection, national and international regulations).	The student applies rules and procedures to ensure compliance with legislation and best practice standards.	The student shows autonomy in implementing solutions aligned with legal requirements.	1
LO 4	The student explains ethical and legal aspects related to cybercrime (fraud, forgery, digital copyright management).	The student identifies and applies techniques to prevent and limit computer crimes.	The student demonstrates high responsibility in protecting data and adopts ethical principles in professional activities.	1

7. Course objectives (resulted from developed competencies)

7.1. Main course objective	<ul style="list-style-type: none"> Accumulating the necessary knowledge to legally use a hardware and software computer system. Knowledge of the rights and duties of a hardware and software computer system user
7.2. Specific course objectives	<ul style="list-style-type: none"> Understanding how to build a legal computer science business as well as the legal use of user data

8. Content

8.1. Lectures ¹⁸	Teaching methods ¹⁹	Hours
Basic notions of professional ethics. Peculiarities in the IT field	Lecture, use of video projector, discussions with students	1
Intellectual Property versus Open Source. Intellectual property rights. Transfer and limited use. Patents; Validity	Lecture, use of video projector, discussions with students	1
Copyright software. Implementation models. Limitation of software theft. software licenses; types and limitations of use	Lecture, use of video projector, discussions with students	1
Legislation in IT. Use of personal data; GDPR	Lecture, use of video projector, discussions with students	1
Legislation. Code of good practice. Data transfer over computer networks. Storage of personal data	Lecture, use of video projector, discussions with students	1
Rules for building computer applications to comply with national and international legislation. Legal protection of computer programs	Lecture, use of video projector, discussions with students	1
Software Development and Marketing Rules. Taxation in the field of software production and IT services	Lecture, use of video projector, discussions with students	1
The legal way of building a business in the IT field. International agreements	Lecture, use of video projector, discussions with students	1
Intellectual Property Ethical Issues in Software and Intellectual Property Content. Good practice principles for loss limitation models	Lecture, use of video projector, discussions with students	1
Compulsory licensing; Casuistry. Perpetual Licensing versus Periodic Licensing. Profit Optimization Models in Software Production and Maintenance	Lecture, use of video projector, discussions with students	1
Principles of software production contracting. Models of good practice. Legislative limitations	Lecture, use of video projector, discussions with students	1
Electronic signature and payment. Digital copyright management. Crimes committed with the help of computer systems.	Lecture, use of video projector, discussions with students	1
Forgery and computer fraud. Techniques to prevent/limit computer crimes.	Lecture, use of video projector, discussions with students	1
Electronic banknote models and legislative limitations (the legislative "vacuum"). International Trends in Electronic Banknote Legislation	Lecture, use of video projector, discussions with students	1
Total lecture hours:		14

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 Bibliography	Course notes. Documentation taught to students (legislation in the field, white papers from software corporations, case studies on software contracts in which the course coordinator participated)
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9.2. Additional Bibliography	
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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 program²³

It is done through regular contacts with the representatives of the companies. Ethics and intellectual property is an actual topic and is of great interest in existing software companies on the local, national and global market.

11. Evaluation

Activity Type	11.1 Evaluation Criteria	11.2 Evaluation Methods		11.3 Percentage in the Final Grade	Obs. ²⁴
11.4a Exam / Colloquy	• Theoretical and practical knowledge acquired (quantity, correctness, accuracy)	Tests during the semester ²⁵ :	%	5% (minimum 5)	CEF
		Homework:	%		
		Other activities ²⁶ :	%		
		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, project presentation • Critical evaluation of a project		85% (minimum 5)	nCPE
11.5 Minimum performance standard ²⁷ To pass the exam, the candidate must have a basic knowledge of the ethics and intellectual property					

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: |_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	



UNIVERSITATEA
LUCIAN BLAGA
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Ministry of Education and Research

Lucian 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

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

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

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