SYLLABUS

Academic year 2023 - 2024

1. Details about the program

1.1. Higher Education Institution	**„Lucian Blaga" University of Sibiu**
1.2. Faculty	Faculty of Sciences
1.3. Department	Environmental Sciences, Physics, Physical Education and Sports
1.4. Field of study	BIOLOGY
1.5. Study cycle[1]	BACHELOR
1.6. Specialization	BIOLOGY

2. Details about the course

2.1. Course name	Practice for the elaboration of bachelor's thesis	Code	FSTI.MFE.BIOEN.L.SO.6.P72.C-3.4
2.2. Course coordinator			
2.3. Practical activity coordinator	Lecturer Voichița Gheoca, PhD		

2.4. Year of study[2]	3	2.5. Semester[3]	6	2.6. Type of assessment[4]		C
2.7. Type of discipline[5]		O	2.8. Formative category of the discipline[6]			F

3. Estimated total time

3.1. Proportion of the discipline within the curriculum – *number of hours / week*					
3.1.a.Lecture	3.1.b. Seminar	3.1.c. Laboratory	3.1.d. Project	3.1.e Other	Total
	-		-	-	

3.2. Proportion of the discipline within the curriculum – *number of hours / week*					
3.2.a.Lecture	3.2.b. Seminar	3.2.c. Laboratory	3.2.d. Project	3.2.e Other	Total[7]
	-	72	-	-	**72**

Allocation of time budget for individual study[8]	**No. hours**
Study based on textbook, lecture notes, bibliography and course notes	
Additional research: library, specialized electronic platforms and field or on-site investigation and documentation	
Preparing for the seminar / laboratorires, home assignments, reports, portfolios and essays	
Tutoring[9]	
Examinations[10]	3

3.3. Total number of hours for individual study[11] **(*NOSI*ₛₑₘ)**	**3**
3.4. Total number of hours in the curriculum (*NOAD*ₛₑₘ)	**72**
3.5. Total number of 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. Prerequisites (if applicable)

4.1. Prerequisite courses for enrollment to this subject (from the curriculum) [14]	
4.2. Competencies	

5. Requirements (wherever applicable)

5.1. Lecture organization and structure[15]	
5.2. Organization and structure of practical activities (lab/sem/pr/other) [16]	

6. Specific competencies[17]

		Number of credits assigned to the discipline[18]	3	Distribution of credits according to competencies[19]
6.1. Professional competencies	CP1	Ability to design and conduct a study in biology.		0.3
	CP2	Ability to use bibliographic resources (library, databases, scientific articles/books online) for documentation		0.3
	CP3	Ability to collect, preserve and identify plant and animal species from the region/country Ability to use laboratory techniques and equipment specific to the field of biology.		0.3
	CP4	Ability to analysebiological and interpret results		0.5
	CP5	Ability to produce a scientific paper on a biological topic.		0.4
	CP6	Ability to synthesise and coherently present the results of own research. Ability to put acquired knowledge into practice		0.3
6.2. Transversal competencies	CT1	Ability to collaborate with specialists from other fields.		0.3
	CT2	Displaying positive and responsible attitudes towards science.		0.3
	CT3	Participation in own professional development; involvement in scientific activities related to the discipline.		0.3

7. Course objectives (reflected by the framework of specific competencies)

7.1. General objective	Development of skills for writing the bachelor thesis.
7.2. Specific objectives	Develop the ability to synthesise bibliographic data, to design and conduct a study, to process and analyse data appropriately, to write up and present final results.

8. Course description

8.1. **Laboratory[22]**	**Teaching methods**	**No. of hours**
Module 1		
Ethics of scientific research	Explanation, conversation, problematisation, dialogue, brainstorming	4
Designing the thesis	Explanation, conversation, problematisation, dialogue, brainstorming	20

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Documentation for the undergraduate thesis - Documentation in the library and use of databases for bibliographic study	Explanation, conversation, problematisation, dialogue, brainstorming, use of on-line databases	20
Construction of maps of investigated areas/Description of working methods	Explanation, conversation, problematisation, dialogue, brainstorming, use of GIS software	20
Data processing and illustration	Explanation, conversation, problematisation, dialogue, brainstorming, use of statistical software	20
Interpreting results and drawing conclusions	Explanation, conversation, problematisation, dialogue, brainstorming	6
Technical writing of the dissertation - content, structure, presentation	Explanation, conversation, problematisation, dialogue, brainstorming	18
PPT presentation in the lab colloquium	Explanation, conversation, problematisation, dialogue, brainstorming	42
Total number of hours: laboratory		**75**

9. Bibliography

9.1. Recommended references	Matthwes J.R., Bowen J.M., Matthews R.W. Successful Scientific Writing: a step-by-step guide for the biological and medical sciences – Cambridge University Press, 1996.
	McMillan, V.E, 2016. Writing Papers in Biological Sciences. 6th edition. Bedford Publishing.
	Lertzman, K.P. 1995. Notes on writing papers and theses. Bulletin of the Ecological Society of America 76:86-90.
	Knisely, K., 2013. A student Handbook for Writing in Biology. 5th edition. W. H. Freeman Publishing
9.2. Additional references	Bibliographical references specific to each topic, recommended by the thesis coordinator.

10. Correlating the course description with the expectations and requirements of representatives of the epistemic community, professional associations and significant employers and stakeholders related to the study program and the specific area[20]

The course content enables students to obtain skills of drawing up an original scientific paper and present the results in a Power Point presentation or a scientific report.

11. Evaluation

Type of activity	11.1 Assessment criteria	11.2 Assessment methods	11.3 Percentage of the final grade	Notes.[21]
11.4. Laboratory	Evaluation of the writing of the bachelor thesis	Evaluation of the written thesis	30%	
	Evaluation of the presentation of the bachelor thesis	Oral evaluation	30%	
	Evaluation of the student's performance during the classes	Oral evaluation	40%	
11.5 Minimum performance standard[22]				

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The course description includes components adapted to SEN (Special Educational Needs) persons, according to their type and degree, at all curricular elements and dimensions (competencies, objectives, course description, teaching methods, alternative assessment), in view of providing and ensuring equitable and fair opportunities to academic education for all students, with special attention to special educational needs.

Date of submission: |_2_|_1_| / |_0_|_9_| / |_2_|_0_|_2_|_3_|

Date of approval in the Department: |_1_|_9_| / |_1_|_0_| / |_2_|_0_|_2_|_3_|

	Degree, titlle, first name, surname	Signature
Course coordinator	Lecturer PhD. Voichița GHEOCA	
Study program coordinator	Assoc. Prof. Ana-Maria Benedek-Sîrbu, PhD	
Director Departament	Lecturer PhD. Voichița GHEOCA	

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[1] *Licență / Master*

[2] *1-4 pentru licență, 1-2 pentru master*

[3] *1-8 pentru licență, 1-3 pentru master*

[4] *Examen, colocviu sau VP A/R – din planul de învățământ*

[5] *Regim disciplină: O=Disciplină obligatorie; A=Disciplină opțională; U=Facultativă*

[6] *Categoria formativă: S=Specialitate; F=Fundamentală; C=Complementară; I=Asistată integral; P=Asistată parțial; N=Neasistată*

[7] *Este egal cu 14 săptămâni x numărul de ore de la punctul 3.1 (similar pentru 3.2.a.b.c.d.e.)*

[8] *Liniile de mai jos se referă la studiul individual; totalul se completează la punctul 3.37.*

[9] *Între 7 și 14 ore*

[10] *Între 2 și 6 ore*

[11] *Suma valorilor de pe liniile anterioare, care se referă la studiul individual.*

[12] *Suma (3.5.) dintre numărul de ore de activitate didactică directă (NOAD) și numărul de ore de studiu individual (NOSI) trebuie să fie egală cu numărul de credite alocat disciplinei (punctul 3.7) x nr. ore pe credit (3.6.)*

[13] *Numărul de credit se calculează după formula următoare și se rotunjește la valori vecine întregi (fie prin micșorare fie prin majorare*

$$Nr.\,credite = \frac{NOCpSpD \times C_C + NOApSpD \times C_A}{TOCpSdP \times C_C + TOApSdP \times C_A} \times 30\,credite$$

Unde:
- NOCpSpD = Număr ore curs/săptămână/disciplina pentru care se calculează creditele
- NOApSpD = Număr ore aplicații (sem./lab./pro.)/săptămână/disciplina pentru care se calculează creditele
- TOCpSdP = Număr total ore curs/săptămână din plan
- TOApSdP = Număr total ore aplicații (sem./lab./pro.)/săptămână din plan
- C_C/C_A = Coeficienți curs/aplicații calculate conform tabelului

Coeficienți	Curs	Aplicații (S/L/P)
Licență	2	1
Master	2,5	1,5
Licență lb. străină	2,5	1,25

[14] *Se menționează disciplinele obligatoriu a fi promovate anterior sau echivalente*

[15] *Tablă, videoproiector, flipchart, materiale didactice specifice, platforme on-line etc.*

[16] *Tehnică de calcul, pachete software, standuri experimentale, platforme on-line etc.*

[17] *Competențele din Grilele aferente descrierii programului de studii, adaptate la specificul disciplinei*

[18] *Din planul de învățământ*

[19] *Creditele alocate disciplinei se distribuie pe competențe profesionale și transversale în funcție de specificul disciplinei*

[20] *Legătura cu alte discipline, utilitatea disciplinei pe piața muncii*

[21] *CPE – condiționează participarea la examen; nCPE – nu condiționează participarea la examen; CEF - condiționează evaluarea finală; N/A – nu se aplică*

[22] *Se particularizează la specificul disciplinei standardul minim de performanță din grila de competențe a programului de studii, dacă este cazul.*

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