

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	Practical training 1	Code	FSTI.MFE.BIOEN.L.SO.2.P84.C-4.9		
2.2. Course coordinator					
2.3. Practical activity coordinator	Teaching assistant Mihai Crăciunaș, PhD				
2.4. Year of study ²	1	2.5. Semester ³	2	2.6. Type of assessment ⁴	C
2.7. Type of discipline ⁵	O	2.8. Formative category of the discipline ⁶	S		

3. Estimated total time

3.1. Proportion of the discipline within the curriculum – <i>number of hours / week</i>					
3.1.a.Lecture	3.1.b. Seminar	3.1.c. Laboratory	3.1.d. Project	3.1.e Other	Total
	-	84	-	-	84
3.2. Proportion of the discipline within the curriculum – <i>number of hours / week</i>					
3.2.a.Lecture	3.2.b. Seminar	3.2.c. Laboratory	3.2.d. Project	3.2.e Other	Total ⁷
	-	84	-	-	84
Allocation of time budget for individual study⁸					No. hours
Study based on textbook, lecture notes, bibliography and course notes					4
Additional research: library, specialized electronic platforms and field or on-site investigation and documentation					4
Preparing for the seminar / laboratorires, home assignments, reports, portfolios and essays					4
Tutoring ⁹					2
Examinations ¹⁰					2
3.3. Total number of hours for individual study¹¹ (NOSI_{sem})					16
3.4. Total number of hours in the curriculum (NOAD_{sem})					84
3.5. Total number of hours per semester¹² (NOAD_{sem} + NOSI_{sem})					100
3.6. No of hours / ECTS					25
3.7. Number of credits¹³					4

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 competencies¹⁷

		Number of credits assigned to the discipline ¹⁸	4	Distribution of credits according to competencies ¹⁹
6.1. Professional competencies	CP1	Knowledge and appropriate use of specialist terms; knowledge and correct interpretation of ideas, principles, processes specific to biology.		1
	CP2	Ability to explore the living world using methods and techniques specific to the field, to use various techniques for collecting and preserving biological material.		1
	CP3	Ability to recognise representative species of fauna and flora, to interpret the biological and/or ecological significance of plant and animal species.		0.5
6.2. Transversal competencies	CT1	Ability to collaborate with specialists from other fields.		0.5
	CT2	Displaying positive and responsible attitudes towards science.		0.5
	CT3	Participation in own professional development; involvement in scientific activities related to the discipline.		0.5

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

7.1. General objective	Acquisition of practical skills in the field of biology.
7.2. Specific objectives	To familiarize students with techniques for collecting and preserving biological material. To develop the ability to recognise plant and animal species and habitats. To develop the ability to analyse data and interpret results.

8. Course description

8.1. a. Laboratory ²²	Teaching methods	No. of hours
Methods of collection, capture and preservation of biological material	Explanation, conversation, problematisation, dialogue, brainstorming, case studies, field trips	4
Methods to assess biodiversity in aquatic and terrestrial ecosystems	Explanation, conversation, problematisation, dialogue, brainstorming, case studies, field trips	12

Application of methods for investigating the structure of communities characteristic of mountain ecosystems	Explanation, conversation, problematisation, dialogue, brainstorming, case studies, field trips	24
Study of protected natural areas in the investigated area	Explanation, conversation, problematisation, dialogue, brainstorming, case studies, field trips	24
Identification of habitats and representative plant and animal species of conservation interest	Explanation, conversation, problematisation, dialogue, brainstorming, case studies, field trips	20
Total number of hours: laboratory		84

9. Bibliography

9.1. Recommended references	Ralph, C. John; Geupel, Geoffrey R.; Pyle, Peter; Martin, Thomas E.; DeSante, David F. 1993. Handbook of field methods for monitoring landbirds. Gen. Tech. Rep. PSW-GTR-144-www. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture; 41 p.
	Svensson, L., 2010. Birds of Europe. Princeton University Press, London, UK.
	Chinery, M., 1987. Field Guide to the Plant Life of Britain and Europe, Pan Macmillan, London, UK.
9.2. Additional references	Doniță, N., Paucă-Comănescu, M., Popescu, A., Mihăilescu, S., & Biriș, I. A. (2005). <i>Habitatele din România</i> . București: Editura Tehnică Silvică.
	Godeanu, S. P., Müller, G. I., & Ardelean, A. (Eds.). (2010). <i>Diversitatea Lumii VII: determinantul ilustrat al florei și faunei României</i> . Bucura Mond.
	Sîrbu, I., & Benedek, A. M. (2012). <i>Ecologie practică</i> . Editura Universității" Lucian Blaga.
	Ghid sintetic pentru monitorizarea speciilor de nevertebrate de interes comunitar din România.2014 EU, Guvernul României, Instrum. structurale

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 area²⁰

The students achieve the capacity to choose the terms and specific methods in order to investigate a practical issue in the field of plant and animal biology, integrated in the specific of biology, ecology and environmental protection context.

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	• Student's performance in practical activities carried out in the field/lab	Direct evaluation of student activity	50%	
	• Evaluation of theoretical knowledge through tests, reports, etc.	Written and oral evaluation	50%	
11.5 Minimum performance standard ²²				
Students should know general aspects of field research of plant and animal biodiversity				

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, title, first name, surname	Signature
Course coordinator	Teaching assistant Mihai Crăciunaș, PhD	
Study program coordinator	Assoc. Prof. Ana-Maria Benedek-Sîrbu, PhD	
Director Departament	Lecturer PhD. Voichița GHEOCA	

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 alocate 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)

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

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.