SYLLABUS

Academic year 2024 - 2025

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	Lecturer Ioan Tăușan PhD				
2.3. Practical activity coordinator	Lecturer Ioan Tăușan 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 – *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
					84
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]
		-			**84**

Allocation of time budget for individual study[8]	**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 study[11] ***(NOSI$_{sem}$)***	**16**
3.4. Total number of hours in the curriculum (*NOAD$_{sem}$*)	**84**
3.5. Total number of hours per semester[12] **(*NOAD$_{sem}$* + *NOSI$_{sem}$*)**	**100**
3.6. No of hours / ECTS	**25**
3.7. Number of credits[13]	**4**

4. Prerequisites (if applicable)

4.1. Prerequisite courses for enrollment to this subject (from the curriculum) [14]	Botany, General Ecology, Invertebrate Systematics
4.2. Competencies	

5. Requirements (wherever applicable)

5.1. Lecture organization and structure[15]	Video Projector
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]		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	The ability to explore the living world with the help of methods and techniques specific to the field, to use various techniques for collecting and preserving biological material;	0,5
	CP3	The ability to recognize some representative species from the fauna and flora, to interpret the biological and/or ecological significance of some plant and animal species.	1
6.2. Transversal competencies	CT1	the ability to collaborate with specialists from other fields.	0.5
	CT2	the manifestation of positive and responsible attitudes towards the scientific field;	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 field-specific practical skills
7.2. Specific objectives	Familiarization of students with the techniques of collection and preservation of biological material. Developing the ability to recognize plant and animal species, respectively some habitats. Developing the ability to analyze data and interpret results

8. Course description

8.1. Lecture[20]	**Teaching methods[21]**	**No. of hours**
	Total number of lecture hours:	**-**

8.2. Practical activities (8.2.a. Seminar[22]/ 8.2.b. Laboratory[23]/ 8.2.c. Project[24] / 8.2.d. Other practical activities[25])	**Teaching methods**	**No. of hours**
Methods of collection, capture and conservation of biological material	Explanation of working methods, material examination, discussion, soft-ware applications	12
Ways to assess biodiversity in aquatic and terrestrial ecosystems	Explanation of working methods, material examination, discussion, soft-ware applications	16
The application of methods for investigating the structure of communities characteristic of mountain and depression ecosystems	Explanation of working methods, material examination, discussion, soft-ware applications	16
Study of protected natural areas in the investigated area	Explanation of working methods, material examination, discussion, soft-ware applications	20
Identification of habitats, respectively representative plant and animal species/of conservation interest	Explanation of working methods, material examination, discussion, soft-ware applications	20
Total number of hours: seminar/laboratory		**84**

9. Bibliography

9.1. Recommended references	
9.2. Additional references	Doniţă, N., Paucă-Comănescu, M., Popescu, A., Mihăilescu, S., & Biriş, I. A. (2005). *Habitatele din România*. Bucureşti: Editura Tehnică Silvică.
	Godeanu, S. P., Müller, G. I., & Ardelean, A. (Eds.). (2010). *Diversitatea Lumii VII: determinatorul ilustrat al florei şi faunei României*. Bucura Mond.
	Sîrbu, I., & Benedek, A. M. (2012). *Ecologie practică*. Editura Universităţii" 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 area[26]

The content of the discipline allows students to obtain practical skills for working in the field or in biology laboratories, operating specific equipment, analyzing data and interpreting results.

11. Evaluare

Type of activity	11.1 Assessment criteria	11.2 Assessment methods		11.3 Percentage of the final grade	Notes.[27]
11.4a Exam / Coloquium	• Theoretical and practical knowledge (quantity, correctness,accuracy)	Midterm / ongoing assignments[28]:	-	40% (minimum 5)	
		Home assignments:	-		
		Other activities[29]:	-		
		Final assessment:	40%		
11.4b Seminar	• Frequency/relevance of contributions or answers	-		-	
11.4c Laboratory	• Knowledge of equipment, methods of using specific	• Oral examination • Written questionnaire		60% (minimum 5)	

	instruments and tools; assessment of tools or achievements, processing and interpretation of results	• Laboratory notebook, experimental work, scientific papers, etc. • Practical demonstrations		
11.4d Project	• Quality of achieved project, accuracy of project documentation, rationale and evidence of selected solutions	-	-	
11.5 Minimum performance standard[30]				

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: 09 / 09 / 2024

Date of approval in the Department: 17 / 09 / 2024

	Degree, titlle, first name, surname	**Signature**
Course coordinator	Lecturer Ioan Tăușan PhD	
Study program coordinator	Assoc. prof. Ana-Maria Benedek-Sîrbu, PhD	
Director Department	Lecturer Ioan Tăușan PhD	

[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] *Titluri de capitole și paragrafe*
[21] *Expunere, prelegere, prezentare la tablă a problematicii studiate, utilizare videoproiector, discuții cu studenții (pentru fiecare capitol, dacă este cazul)*
[22] *Discuții, dezbateri, prezentare și/sau analiză de lucrări, rezolvare de exerciții și probleme etc.*
[23] *Demonstrație practică, exercițiu, experiment etc.*
[24] *Studiu de caz, demonstrație, exercițiu, analiza erorilor etc.*
[25] *Alte tipuri de activități practice specifice*
[26] *Legătura cu alte discipline, utilitatea disciplinei pe piața muncii*
[27] *CPE – condiționează participarea la examen; nCPE – nu condiționează participarea la examen; CEF - condiționează evaluarea finală; N/A – nu se aplică*
[28] *Se va preciza numărul de teste și săptămânile în care vor fi susținute.*
[29] *Cercuri științifice, concursuri profesionale etc.*
[30] *Se particularizează la specificul disciplinei standardul minim de performanță din grila de competențe a programului de studii, dacă este cazul.*