## **COURSE SYLLABUS**

# **1. Data about the program**

1.1 Higher education institution	Babeş-Bolyai University
1.2 Faculty	Faculty of Biology and Geology
1.3 Doctoral school	Doctoral School of Integrative Biology
1.4 Field of study	Integrative Biology
1.5 Study cycle	Doctorate
1.6 Study program / Qualification	Doctoral training / PhD in Biology

## 2. Course data

2.1 Name	Class	ical and modern taxonomy											
of													
discipline													
2.2 Teacher		Prof. La	ászló Rákosy										
responsible	for												
lectures													
2.3 Teacher		2.2 Te	acher respon	sible for l	ecture	es F	Prof. Lász	ló Rál	cosy				
responsible	for	2.3 Te	acher respon	sible for s	emina	ars I	Prof. Lász	ló Rál	cosy				
seminars		2.4 Ye	ear of study	1 2.5 S	emest	er 2	2.6. Typevaluat	pe of		E 2	2.7 Co	ourse fr	amewo
							Cvaluat						
		3. Estir	nated total t	ime of tea	aching	p activit	ies (hours	per s	emester)				
		3.1 Ho	ours per week		4	Out of	which: 3.	$\frac{per s}{2}$	3.3 Sen	ninars /	/	2	
		0.1.10		-	-	Lecture	es	_	Laborat	orv cla	asses	-	
		3.4 To	tal hours in t	he	48	Out of	which:	24	3.6 Sen	ninars /	/	24	
		curricu	ulum		_	3.5 Lec	tures		Laborat	ory cla	asses		
		Allocation of study time:											
		Study	supported by	v textbook	s, oth	er course	e material	s, reco	ommende	ed		64	
		biblio	graphy and po	ersonal stu	udent	notes							
		Additi	onal learning	g activities	s in the	e library	, on speci	alized	online p	latforn	ns	64	
	and in the field												
		Preparation of seminars / laboratory classes, topics, papers, portfolios and 38											
	essays												
		Tutoring 34											
		Exami	inations									4	
2.4 1 2.4	5	2	2.6. Type of	evaluation	n	E	2.7 Cou	rse fra	mework		Opt	•	
Year Se	emester												
of													
study													

## 3. Estimated total time of teaching activities (hours per semester)

3.1 Hours per week	4	Out of which: 3.2	2	3.3 Seminars /	2		
		Lectures		Laboratory classes			
3.4 Total hours in the curriculum	48	Out of which: 3.5	24	3.6 Seminars /	24		
		Lectures		Laboratory classes			
Allocation of study time:							
Study supported by textbooks, other course materials, recommended bibliography and personal							
student notes							
Additional learning activities in the library, on specialized online platforms and in the field							
Preparation of seminars / laboratory classes, topics, papers, portfolios and essays							
Tutoring							
Examinations 4							

Other activities: -	
3.7 Individual study (total hours)	204
3.8 Total hours per semester	252
3.9 Number of credits	10

## 4. Preconditions (where applicable)

4.1 Curriculum	•
4.2 Competences	•

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# **5.** Conditions (where applicable)

5.1 Conducting lectures	Classroom, equipped with laptop, video projector and suitable software, Power Point, Word, multimedia applications, Internet
5.2 Conducting seminars /	The submission of a report on a specific topic is a prerequisite for
	participation in the examination

## 6. Specific competences acquired

Professional competences	C12. Knowledge and understanding of advanced concepts, theories, and methods of biology; their proper use in professional communication. -
Transversal competences	<ul> <li>CT1. Ability to work in life science research teams, solving problems and decision making, organizing group activities.</li> <li>Use of specific taxonomy concepts in personal research</li> <li>Use of theoretical notions in solving practical issues</li> <li>Efficient use of information sources (Internet portals, software applications for specialized software, databases) both in Romanian and English.</li> </ul>

# 7. Course objectives (based on the acquired competencies grid)

7.1 The general objective of	- Knowledge and understanding of the principles of classical and modern						
the course	taxonomy.						
	- Knowledge of modern methods of taxonomic study						
	- Skills of association of different specific methods of analysis and						
	interpretation in taxonomy						
7.2 Specific objectives	- Use of specific taxonomy concepts in personal research						
	- Use of theoretical notions in solving practical issues						
	- Efficient use of information sources (Internet portals, software applications						
	for						
	specialized software, databases) both in Romanian and English.						

#### 8. Content

8.1 Lectures	Teaching methods	Comments
The syllogism of current systematics and the new	Lecture with	2 hs
paradigms of taxonomy	heuristic	
The five directions of taxonomy	conversation	2 hs

Cladistics and phenetics		2 hs
Integrative taxonomy and evolution		4 hs
The particularities of plant taxonomy		4 hs
The particulaities of animal taxonomy		4 hs
8.2. Seminars		
Presentation of the seminar theme,		2 hs
organization in groups, distribution of the topics of		
the presentations.		
Individual presentations of doctoral students	Each PhD student	12 hs
	will present a topic	
	of their choice	
	related to taxonomy,	
	in accordance with	
	their PhD topic	

#### **Bibliography for Lectures**:

Campbell biology / Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, Robert B. Jackson, Bernard Cooke, 2015 - Capitolul: Phylogeny and the tree of life.

Conix S. 2018. Integrative taxonomy and the operationalization of the evolutionary independence. Eur. J. of Philosophie of Science, **8**: 587–603

Pante E., Schoelinck C., Puillandre N. 2015. From Integrative Taxonomy to Species Description: One Stepe Beyond. Systematic Biology 64(1):152-160

#### **Bibliography for Seminars:**

Internet and bibliographic sources specific to each topic, suggested by the supervisor.

# 9. Aligning the contents of the discipline with the expectations of the epistemic community representatives, professional associations and standard employers operating in the program field

The content of the discipline is in accordance with what is taught in other university centers in the country and in abroad.

## **10. Examination**

Activity type	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Weight in				
			the final grade				
10.4 Lectures	Assessment of knowledge	Written exam	20%				
10.5 Seminars / laboratory	Activity during seminars	Discussions, answers to	80%				
classes		questions					
10.6 Minimum performance standard							
Basic knowledge for obtaining the grade 5.							

Date of issue 19.06.2023

Signature of the teacher responsible for lectures

Prof. László Rákosy

Date of approval by the doctoral school council 21.06.2023

Signature of the teacher responsible for seminars

Prof. László Rákosy

Signature of the doctoral school director Prof.dr. Pap Peter Laszlo