CONTENT

1. Animal and Human Physiology	3
2. Behavioral ecology	5
3. Biogeography	6
4. Biospeleology	8
5. Cell Metabolism	10
6. Certified training course	. 12
7. Chronophysiology	. 13
8. Citation in monograph	.15
9. Citation in scientific journal published abroad	. 16
10. Citation in scientific journal published in the country of residence	.17
11. Citation registered in Science Citation Index.	.18
12. Co-investigator of the applied research project	19
13. Co-worker of project supported by international grant schemes	20
14. Co-worker of project supported by national grant schemes	21
15. Comparative animal physiology	.22
16. Conference in the country of residence.	24
17. Dissertation Thesis.	25
18. Ecology of mammals	.26
19. Elaboration and defence of the thesis, successful completion of the dissertation	
examination	. 28
20. Elaboration and defense of the work, successfully completed dissertation exam	. 29
21. Elaboration of reviewer report.	. 31
22. Endocrinology	. 32
23. English Language for PhD Students 1	. 34
24. English Language for PhD Students 2	. 36
25. Environmental physiology	.38
26. Etológia	. 40
27. Experimental oncology	.41
28. Immunology	. 43
29. Implementation of new experimental methodology	.44
30. Internacional Journal	45
31. International Conference	46
32. International Study Stay less than 30 Days	. 47
33. International Study Stay more than 30 Days	. 48
34. International conference taking place in the country of residence	.49
35. Member of the internal project team	50
36. Membership in conference organising committee	. 51
37. Methods of molecular biology	. 52
38. Monograph	. 54
39. Monograph in a renowned publishing house	. 55
40. Neuroanatomy	. 56
41. Neuronal basis of behavior	.58
42. Non-reviewed collections of papers and monographs published abroad or in the country of	
residence	. 60
43. Parasitology II	61
44. Pedagogy for University Teachers	63
45. Peer-reviewed collections of papers and monographs published abroad or in in the country of	•
residence	. 65

46. Popularisation of science	66
47. Presentation at the seminar	67
48. Principal investigator of an internal grant (VVGS)	
49. Psychology for University Lecturers	69
50. Q1 journal as co-author	71
51. Q1 journal as first or corresponding author	72
52. Q2 journal as co-author	73
53. Q2 journal as first or corresponding author	74
54. Q3 journal as co-author	75
55. Q3 journal as first or corresponding author	76
56. Q4 journal as co-author	77
57. Q4 journal as first or corresponding author	78
58. Scientific work after sending to the editorial office	79
59. Selected topics in herpetology	80
60. Self-motivated Study on Scientific Literature	
61. Self-motivated Study on Scientific Literature	
62. Spring School for PhD Students	84
63. Supervision of Student's Scientific Activity	86
64. Teaching activities 1h/s	87
65. Teaching activities 2 h/s	88
66. Teaching activities 3 h/s	89
67. Teaching activities 4 h/s	
68. Thesis consultant	91
69. Thesis supervising	92
70. Urbánna ekológia	93
71. Vývinové a molekulárne mechanizmy v evolúcii stavovcov	94
72. Úvod do štatistiky v prostredí R pre biológov	95

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ FYZ/04	Course name: Animal and	Human Physiology				
Course type, scope a Course type: Practi Recommended cou Per week: Per stuc Course method: dis	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: distance present					
Number of ECTS cr	redits: 6					
Recommended seme	ester/trimester of the course	e: 1.				
Course level: III.						
Prerequisities:						
Conditions for cours oral examination	se completion:					
Learning outcomes: To extend the knowledge the dissertation.	edge from the basic subject of	of Animal physiology with respect to the topic of				
 Brief outline of the course: Basic principles in Animal Physiology. The goal and functioning of the integrating systems of the body. Control and regulating processes. Homeostatic mechanisms for maintenance of the stability of the inner environment. The aim of physiological adaptations. Transport processes in the human body. Principles of the energetic metabolism. Anaerobic and aerobic processes in the metabolism of nutrients. Adaptation to low and high environmental temperatures. Control of movement - motoric bases of behaviour. 						
Recommended literature: Hill, Wyse, Anderson : Animal Physiology, Sinauer Assoc., 2008						
Course language: english						
Notes:						
Course assessment Total number of assessed students: 76						
N P						
	0.0 100.0					
Provides: doc. RNDr. Monika Kassayová, CSc.						
Date of last modification: 25.03.2022						

Approved: prof. RNDr. Ľubomír Kováč, CSc.

r							
University:	P. J. Šafá	rik University i	n Košice				
Faculty: Fa	culty of S	cience					
Course ID: BEK/22	Course ID: ÚBEV/ Course name: Behavioral ecology EK/22						
Course type Course typ Recommen Per week: Course me	e, scope a be: Lectur nded cour 2 / 2 Per ethod: dis	nd the method e / Practice rse-load (hours study period: 2 tance, present	:): 28 / 28				
Number of	ECTS cr	edits: 5					
Recommen	ded seme	ster/trimester	of the cours	e:			
Course leve	l: II., III.						
Prerequisiti	ies: ÚBEV	V/ETO1/03					
Conditions	for cours	e completion:					
Learning or	utcomes:						
Brief outlin	e of the c	ourse:					
Recommen	ded litera	ture:					
Course lang	Course language:						
Notes:							
Course asse Total numb	essment er of asses	ssed students: 2	22				
A	В	С	D	Е	FX	N	Р
86.94	86.94 3.6 4.95 0.45 0.0 0.0 0.0 4.05						
Provides: R	NDr. Igoi	Majláth, PhD.				<u> </u>	•
Date of last	modifica	tion: 22.09.202	23				
Approved:	prof. RNI	Dr. Ľubomír Ko	váč, CSc.				
1							

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	Science					
Course ID: ÚBEV/ BGEE/11	Course name: Biogeograp	hy				
Course type, scope a Course type: Lectu Recommended cou Per week: 1 / 2 Per Course method: dis	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: distance present					
Number of ECTS cr	redits: 6					
Recommended seme	ester/trimester of the cours	e: 1.				
Course level: III.						
Prerequisities:						
Conditions for cours Oral examination.	se completion:					
Learning outcomes: Broadened contemporegard to its history molecular biology ar	Learning outcomes: Broadened contemporary knowledge of the principles of distribution of living biota on Earth with regard to its history and evolution of global ecosystems. To apply modern methods of ecology, molecular biology and genetics to the study of the recent distribution of organisms					
Brief outline of the course: The subject concentrates on environmental and ecological perspectives to show how they have impacted the evolution, distribution and diversity of species. Updated to reflect current research, it involves short introduction to the discipline, then describes the environmental setting and basic biogeographic patterns, earth history and fundamental biogeographic processes, the evolutionary history of lineage and biotas, ecological biogeography, conservation biogeography, and the future of the discipline						
Recommended literature: Darlington P.J., 1998: Zoogeography: The geographical distribution of animals. Krieger, USA, p. 1-690 Lomolino M.V., Brown J.H., Riddle B. R., 2005: Biogeography. Sinauer Associates, 1-845						
Course language: English language						
Notes:						
Course assessment Total number of assessed students: 39						
	N	Р				
0.0 100.0						
Provides: prof. RNDr. Ľubomír Kováč, CSc., doc. RNDr. Marcel Uhrin, PhD., univerzitný profesor, RNDr. Natália Raschmanová, PhD., univerzitná docentka						
Date of last modification: 10.12.2021						

Approved: prof. RNDr. Ľubomír Kováč, CSc.

Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Biospeleology BSP/04 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 1 / 1 Per study period: 14 / 14 Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: 2., 4. Course level: II., III. Prerequisities: Conditions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination. Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave system and interactions between its. Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000	University:	University: P. J. Šafárik University in Košice						
Course ID: ÚBEV/ BSP/04 Course type, scope and the method: Course type, scope and the method: Course type. Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: 2., 4. Course level: II., III. Prerequisities: Conditions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination. Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota. Recommended literature: Culver D.C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D.C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D.C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London </td <td>Faculty: Fa</td> <td>culty of S</td> <td>cience</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Faculty: Fa	culty of S	cience					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: distance, present Recommended semester/trimester of the course: 2., 4. Recommended semester/trimester of the course: 2., 4. Course level: II., III. Prerequisities: Confitions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination. Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota. Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D. C., 1982: Cave life – evolution and ecology of cavernicolous animals. Pergamon Press, Oxford Wilkens H, Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791 Course language: N P Notes: FX N	Course ID: BSP/04	ÚBEV/	Course name: Biospeleology					
Number of ECTS credits: 4Recommended semester/trimester of the course: 2., 4.Course level: II., III.Prerequisities:Conditions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination.Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota.Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota.Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791Course assessment Total number of assessed students: 91ABCDEFXNP90,110.02.21.10.00.0 <th< td=""><td>Course type Course type Recomment Per week: Course me</td><td colspan="7">Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: distance, present</td></th<>	Course type Course type Recomment Per week: Course me	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: distance, present						
Recommended semester/trimester of the course: 2., 4.Course level: II., III.Prerequisities:Conditions for course completion:Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination.Learning outcomes:The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota.Brief outline of the course:The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota.Recommended literature:Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D. C., Humphreys W.F., 2000: Subterranean Ecosystems of the World, vol. 30. Elsevier, 1-791Course language:Notes:Course assessment Total number of assessed students: 91ABCDEFXNP90.110.02.2 <tr <th=""></tr>	Number of	ECTS cr	edits: 4					
Course level: II., III. Prerequisities: Conditions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination. Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave biota. Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Oxford Wilkens H., Culver D. C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791 Course assessment Total number of assessed students: 91 A B C D E FX N P 90.11 0.0 2.2 1.1 0.0 0.0 <	Recommen	ded seme	ster/trimester	of the cours	e: 2., 4.			
Prerequisities: Conditions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination. Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to the specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota. Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D. C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791 Course language: A B Culver D. C., Bumphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791 Course language: <td>Course leve</td> <td>el: II., III.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Course leve	el: II., III.						
Conditions for course completion: Active participation in seminars and field trips, preparation of oral presentation to a selected topic, completion of semestral written examination, final oral examination. Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations between its components, human influence and protection of the cave system and interactions between its components, human influence and protection of the cave biota. Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791 Course language: Motes: FX N P 90.11 0.0 2.2 1.1 0.0 0.0 6.59 Provides: prof. RNDr. Eubomír Kováč, CSc, RNDr. Andrea Rendošová, PhD.	Prerequisit	ies:						
Learning outcomes: The main goal of the subject is to get basic knowledge on the diversity of the cave biota, relationships and adaptations to the specific environment, its role in the cave system and protection of the cave biota. Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota. Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791 Course language: Notes: 7 A B C D E FX N P 90.11 0.0 2.2 1.1 0.0 0.0 6.59 Provides: prof. RNDr. Lubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021 10.12.2021	Conditions Active parts completion	for cours icipation i of semest	e completion: n seminars and ral written exar	field trips, print	reparation or al oral exam	f oral present ination.	ation to a se	lected topic,
Brief outline of the course:The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota.Recommended literature:Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D. C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791Course language:Notes:Course assessment Total number of assessed students: 91ABCDEFXNP90.110.02.21.10.00.00.06.59Provides: prof. RNDr. Eubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD.Date of last modification: 10.12.2021	Learning of The main relationship of the cave	utcomes: goal of th os and adaj biota.	ne subject is to ptations to the s	o get basic pecific envir	knowledge onment, its i	on the diver role in the cav	rsity of the ve system an	cave biota, d protection
Recommended literature:Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and LondonCulver D.C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791Course language:Notes:Course assessment Total number of assessed students: 91ABCDEFXNP90.110.02.21.10.00.06.59Provides: prof. RNDr. Eubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD.Date of last modification: 10.12.2021	Brief outline of the course: The subject covers morphology and systematics of the cave fauna and microflora, their adaptations to this specific habitat type, geographic distribution, functioning of the cave system and interactions between its components, human influence and protection of the cave biota							
Course language: Notes: Course assessment Total number of assessed students: 91 A B C D E FX N P 90.11 0.0 2.2 1.1 0.0 0.0 6.59 Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021	Recommended literature: Culver D. C., 1982: Cave life – evolution and ecology. Harvard University Press, Cambridge, Massachusetts and London Culver D.C., White W.B., 2005: Encyclopedia of caves. Elsevier, 1-654 Vandel A., 1965: Biospeleology - the biology of cavernicolous animals. Pergamon Press, Oxford Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791							
Notes: Course assessment Total number of assessed students: 91 A B C D E FX N P 90.11 0.0 2.2 1.1 0.0 0.0 6.59 Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021	Course language:							
Course assessment Total number of assessed students: 91 A B C D E FX N P 90.11 0.0 2.2 1.1 0.0 0.0 6.59 Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021 10.10 <	Notes:							
A B C D E FX N P 90.11 0.0 2.2 1.1 0.0 0.0 0.0 6.59 Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021 V	Course assessment Total number of assessed students: 91							
90.11 0.0 2.2 1.1 0.0 0.0 0.0 6.59 Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021 Image: Comparison of the second secon	A	В	С	D	Е	FX	N	Р
Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Rendošová, PhD. Date of last modification: 10.12.2021	90.11	0.0	2.2	1.1	0.0	0.0	0.0	6.59
Date of last modification: 10.12.2021	Provides: p	rof. RND	. Ľubomír Kov	áč, CSc., RN	Dr. Andrea	Rendošová,	PhD.	
	Date of last	modifica	tion: 10.12.202	21				

Approved: prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ MET/04	ID: ÚBEV/ Course name: Cell Metabolism					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: dis	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 Per study period: 28 / 0s Course method: distance present					
Number of ECTS cr	edits: 5					
Recommended seme	ster/trimester of the course:					
Course level: III.						
Prerequisities:						
Conditions for cours Oral examination	e completion:					
Learning outcomes: Broadening of the bar and human organism	sic knowledge of metabolic processes for homeostasis maintenance in animal					
Brief outline of the course: Carbohydrates – structure, biological significance of mono-, di-, polysaccharides and its derivatives, pathways of carbohydrate synthesis and degradation, glycaemia regulation, clinical aspects of carbohydrate metabolism. Lipids – categories, metabolism, lipogenesis, lipolysis, the metabolic roles of the liver and adipose tissue. Ketogenesis. Regulation of carbohydrate and lipid metabolism. Plasma lipoprotein metabolism, hyper- and hypolipoproteinemias. Cholesterol metabolism, biochemical and clinical aspects of atherogenesis and atherosclerosis. Arachidonic acid – biological significance, formation and functions of eicosanoids, clinical correlations. Reactive oxygen and nitrogen species, oxidative metabolism, antioxidative systems. Metabolic pathways of protein degradation and amino acid transformation, special products of amino acid metabolism. Nitrogen metabolism and its disturbances. Metabolism of solutes. Mechanisms of metabolic processes regulation.						
1. Devlin T.M.: Texth 2. Bhagavan N.V., Ch 3. Newsholme E., Le 2010	book of Biochemistry with Clinical Correlations. Wiley-Liss 2006 nung-Eun Ha: Essentials of Medical Biochemistry. Elsevier 2011 ech T.: Functional Biochemistry in Health and Disease. Wiley-Blackwell					

Course language:

Notes:

Course assessment					
Total number of assessed students: 43					
Ν	Р				
0.0	100.0				
Provides: doc. RNDr. Monika Kassayová, CSc.					
Date of last modification: 16.09.2021					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ COK/22	Durse ID: ÚBEV/ Course name: Certified training course DK/22			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: dis	nd the method: rse-load (hours): y period: tance, present			
Number of ECTS cr	edits: 4			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Completion of a certi	e completion: fied professional/training co	ourse.		
Learning outcomes: The PhD student acq work and familiarize He confronts his own peer discussion in the	uires up-to-date scientific k s himself with the methodo knowledge and skills with given scientific field.	nowledge, develops the capabilities of scientific logies of making scientific knowledge available. other course participants, develops the abilities of		
Brief outline of the course:				
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 14			
	abs n			
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNI	Dr. Ľubomír Kováč, CSc.			

University: P. J. Šafái	rik University in Košice						
Faculty: Faculty of S	cience						
Course ID: ÚBEV/ CRO1/03	Course ID: ÚBEV/ Course name: Chronophysiology CRO1/03						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: dis	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: distance_present						
Number of ECTS cro	edits: 5						
Recommended seme	ster/trimester of the course: 1.						
Course level: II., III.							
Prerequisities:							
Conditions for cours Active participation of Passing of the final of	e completion: on practicals. ral examination.						
To outline the problem in evolution of living To understand the me with various periodic of the biological rhyth	natics of the time organization of biological processes and their significance organisms. echanisms, ensuring the adaptation to regular changes in their environment ity, as well as of the common action of external and internal factors in control hms						
Brief outline of the c 1. Time structure of the 2. Overview of the hi 3. Basic notions and c 4. Genetic basis and r 5. Endogenous charac 6. Synchronsation of 7. Model animals in s 8. Ultradian rhythms. 9. Circaannual (seaso 10. Application of ch 11. Disturbations of the 12. Biological rhythm 13. The significance of Pagemmanded literations of the 14. Constant of the significance of the 15. Endogenous characteristics of the significance of the 16. Constant of the significance of the sig	Durse: ne physiological variables in animals. story of chronobiology. livision of biological rhythms. nolecular mechanisms of the biological rhythms in animals. eter of the biological rhythms. Localization of the biological clock. rhythms. Multioscillatory system of the body. tudy of biological rhythms. nal) rhythms. ronobiological principles in medicine. he biological rhythms. The jet-lag syndrome. ns in shift-work. of biological rhythms in the evolution of living organisms.						
Kecommended litera	ture:						
Course language:							

Notes:

Course assessment Total number of assessed students: 118							
А	В	С	D	Е	FX	Ν	Р
22.88	21.19	26.27	9.32	3.39	0.0	0.0	16.95
Provides: RNDr. Natália Pipová, PhD.							
Date of last modification: 21.09.2021							
Approved: prof. RNDr. Ľubomír Kováč, CSc.							

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ CM/22	Course name: Citation in monograph				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: dis	nd the method: rse-load (hours): ly period: tance, present				
Number of ECTS cr	edits: 8				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours Obtained citation reg	e completion: istered in SCI or Scopus.				
Learning outcomes: Obtaining a citation researched field, bas problem in such a wa source demonstrates contribution to scient	Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level.				
Brief outline of the course:					
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 0					
	abs n				
0.0 0.0					
Provides:					
Date of last modification: 08.11.2022					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

Faculty: Faculty of Science Course ID: UBEV/ CZC/22 Course name: Citation in scientific journal published abroad CZC/22 Course type, scope and the method: Course type, scope and the method: Course type; Recommended course-load (hours): Per week: Per study period: Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: 2 Date of last modification: 08.11.2022 Annerwed: prof RNDF. Lubomir Kováč CSc	University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Course ID: ÚBEV/ CZC/22 Course name: Citation in scientific journal published abroad Course type, scope and the method: Course type; Recommended course-load (hours): Per week: Per study period: Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 100.0 0.0 0.0 0.0 Provides: Date of last modification: 08.11.2022	Faculty: Faculty of Science				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Contitions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022 Ameroyad: prof. RNDr. Lubomir Koyáč, CSc	Course ID: ÚBEV/ CZC/22	Course name: Citation in scientific journal published abroad			
Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022 Amproved: prof RNDr. Pubmorir Kováč CSc.	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022 Annroved: prof. RNDr. Lubomír, Kováč. CSc.	Number of ECTS cr	edits: 4			
Course level: III. Prerequisities: Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022 Annroved: prof. RNDr. L'ubomír Kováč. CSc.	Recommended seme	ster/trimester of the cours	e:		
Prerequisities: Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researche dield, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides:	Course level: III.				
Conditions for course completion: Obtained citation in a foreign scientific journal. Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 100.0 0.0 Provides: Date of last modification: 08.11.2022	Prerequisities:				
Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022	Conditions for cours Obtained citation in a	Conditions for course completion: Obtained citation in a foreign scientific journal.			
Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs 100.0 0.0 Provides: Date of last modification: 08.11.2022 Annroved: prof_RNDr_L'ubomír Kováč_CSc	Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level.				
Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 4 abs 100.0 0.0 Provides: Date of last modification: 08.11.2022 Annroved: prof. RNDr. L'ubomír Kováč. CSc.	Brief outline of the course:				
Course language:	Recommended literature:				
Notes: Course assessment Total number of assessed students: 4 n abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022 Annroved: prof BNDr. Lubomír Kováč, CSc CSc	Course language:				
Course assessment Total number of assessed students: 4 abs n 100.0 0.0 Provides: Date of last modification: 08.11.2022 Approved: prof_RNDr_Lubomír Kováč_CSc CSc	Notes:				
absn100.00.0Provides:Date of last modification: 08.11.2022Approved: prof BNDr L'ubomír Kováč CSc	Course assessment Total number of assessed students: 4				
100.0 0.0 Provides:		abs	n		
Provides: Date of last modification: 08.11.2022 Approved: prof RNDr Lubomír Kováč CSc		100.0	0.0		
Date of last modification: 08.11.2022	Provides:				
Annroved: prof RNDr L'ubomír Kováč CSc	Date of last modifica	ntion: 08.11.2022			
Approven prof. Reddini Rovie, ese.	Approved: prof. RNI	Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ CDC/22	Irse ID: ÚBEV/ Course name: Citation in scientific journal published in the country of residence			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for course completion: Citation in a national scientific journal				
Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 0				
	abs	n		
	0.0	0.0		
Provides:				
Date of last modifica	ntion: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P I Šafá	University: P. I. Šafárik University in Košice			
Example a formation of the second sec				
Faculty: Faculty of Science				
Course ID: UBEV/ SCI/22	Course name: Citation registered in Science Citation Index			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Obtained citation reg	Conditions for course completion: Obtained citation registered in SCI or Scopus.			
Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 27				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ntion: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ SPAV/22	Course ID: ÚBEV/ Course name: Co-investigator of the applied research project PAV/22			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 5			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Co-investigator of the	e completion: e applied research project			
The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective of applied research and to take responsibility for assigned tasks. By solving an applied research project, he acquires the ability to implement the project objective according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of applied research outputs. The PhD student gains valuable experience from the practical course of a grant project with a focus on applied research.				
Brief outline of the course:				
Recommended literature:				
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 2				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ntion: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ SMP/22	Course name: Co-worker of project supported by international grant schemes			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 15			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Membership in the re	Conditions for course completion: Membership in the research team of an international project.			
Learning outcomes: Active involvement by solving a specific task within a team of international project solvers. The PhD student demonstrates the ability to work in a team, take responsibility for the assigned task, adhere to the time schedule and fulfill the project outputs. The PhD student gains personal experience from the implementation of an international project, participation in its key stages, creation of measurable outputs, grant funding of science.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 8				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ition: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Co-worker of project supported by national grant schemes SDP/22 Course name: Co-worker of project supported by national grant schemes SDP/22 Course type, scope and the method: Course type; Recommended course-load (hours): Per week: Per study period: Course method: distance, present Number of ECTS credits: 10 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language: Course language:	University: P. J. Šafá	rik University in Košice			
Course ID: ÚBEV/ Course name: Co-worker of project supported by national grant schemes SDP/22 Course type, scope and the method: Course type, scope and the method: Course type; Recommended course-load (hours): Per week: Per study period: Course method: distance, present Number of ECTS credits: 10 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Faculty: Faculty of Science				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present Number of ECTS credits: 10 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Course ID: ÚBEV/ SDP/22	Derver Derver of project supported by national grant schemes DP/22			
Number of ECTS credits: 10 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Number of ECTS cro	edits: 10			
Course level: III. Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Recommended seme	ster/trimester of the cours	e:		
Prerequisities: Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Course level: III.				
Conditions for course completion: Co-investigator of the domestic project Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Prerequisities:				
Learning outcomes: The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project. Brief outline of the course: Recommended literature: Course language:	Conditions for cours Co-investigator of the	e completion: e domestic project			
Brief outline of the course: Recommended literature: Course language:	The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. By solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project.				
Recommended literature: Course language:	Brief outline of the course:				
Course language:	Recommended literature:				
	Course language:				
Notes:					
Course assessment Total number of assessed students: 69					
abs n		abs	n		
100.0 0.0		100.0	0.0		
Provides:	Provides:				
Date of last modification: 08.11.2022	Date of last modifica	tion: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ Course name: Comparative animal physiology PFYZ/15					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: dis	nd the method: re rse-load (hours): dy period: 28 tance, present				
Number of ECTS cr	edits: 3				
Recommended seme	ster/trimester of the course: 1.				
Course level: II., III.					
Prerequisities:					
Conditions for cours Working out the give Passing the final oral	e completion: n themes of the report. examination.				
Learning outcomes: The students receive the various life condi	an overview on the significance of physiological adaptational mechanisms to tions on the individual levels of the phylogenesis.				
Brief outline of the c 1. Phylogeny of food 2. Energy metabolis principles of aerobic 3. Thermal housekeep 4. Life in cool enviro 5. The phylogenic de 6. Sensory abilities of 7. Evolution of the evertebrates and verte 8. Reproductive syste 9. Navigation in anim 10. The mechanisms 11. Comparison of ci 12. Water- and miner 13. Excretory system	ourse: acquisition, processing and utilization in animals. m (factors influencing the metabolic rate; physiology of physical work; performance in various species). ping (poikilothermic and homoiothermic strategies. nment). velopment of the nervous system. f the animals. brain. Endocrinal and neuroendocrinal regulation of body functions in ebrates. ems of the animals. hals. Motoric basics of animal behaviour. of the exchange of respiratory gases in a phylogenetic view. rculatory systems in animals. al housekeeping in terrestrial and aquatic animals. s of the animals.				
Recommended litera	iture:				
Course language:					
Notes:					

Course assessment Total number of assessed students: 28							
А	A B C D E FX N P						
32.14	32.14 17.86 0.0 7.14 3.57 0.0 0.0 39.29						
Provides: d	Provides: doc. RNDr. Bianka Bojková, PhD.						
Date of last modification: 21.09.2021							
Approved:	prof. RNDr.	Ľubomír Ko	váč, CSc.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science	Faculty: Faculty of Science				
Course ID: ÚBEV/ Course name: Conference in the country of residence DK/04					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present					
Number of ECTS credits: 2					
Recommended semester/trimester of the course	:				
Course level: III.					
Prerequisities:					
Conditions for course completion: Active participation in the home conference.					
Learning outcomes: By actively participating in the national scientific conference, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence in using existing theories and concepts in an innovative way, as well as generating new original scientific knowledge and communicating research results to a wider audience using adequate means and through the Slovak language.					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 175					
abs	n				
100.0	0.0				
Provides:					
Date of last modification: 08.11.2022					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ DIZP/23	Course name: Dissertation Thesis			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28				
Course method: dis	tance, present			
Number of EC18 cro				
Recommended seme	ster/trimester of the cours	e: 3.		
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:	Course language:			
Notes:	Notes:			
Course assessment Total number of assessed students: 0				
	abs n			
0.0 0.0				
Provides: doc. RNDr. Bianka Bojková, PhD., prof. RNDr. Ľubomír Kováč, CSc., RNDr. Vlasta Demečková, PhD., univerzitná docentka, doc. RNDr. Andrej Mock, PhD., RNDr. Natália Raschmanová, PhD., univerzitná docentka, Mgr. Peter Kaňuch, PhD., doc. RNDr. Monika Kassayová, CSc., RNDr. Igor Majláth, PhD., doc. RNDr. Marcel Uhrin, PhD., univerzitný profesor, RNDr. Viktória Majláthová, PhD., univerzitná docentka				
Date of last modifica	tion:			
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

	P. J. Safarik		n Kosice				
Faculty: Fac	ulty of Scie	ence					
Course ID: ÚBEV/ Course name: Ecology of mammals EKC1/00							
Course type, Course type Recomment Per week: 1 Course met	scope and e: Lecture / ded course / 1 Per stu hod: distar	the method Practice -load (hours idy period: ice, present	:)): 14 / 14				
Number of F	ECTS cred	its: 3					
Recommend	ed semeste	er/trimester	of the cours	e:			
Course level	: II., III.						
Prerequisitie	es:						
Conditions f	or course o	completion:					
To understand a) ekological position of mammal groups in ecosystems and their importance in ecological networks; b) anthropogenic impacts on mammals and their coenoses; c) population ecology of some mammal groups							
1. Factors Hibernation, Habitat and r prey. 5. Man Reproduction Migration. H dynamics ar	of enviror aestivation nika. Interact nmals and p n. Mating s Habitat selen nd cycles.	nment. Temp n, letargy. 2. ctions. 4. Kor plants. Food ystems. Oest ection. Indiv Gradations	Derature. Wa Reseources nensalism. M webs. 6. Ter rus. r- and K idual. Popu	ater. Snow. s. Food. Foo Iutualism. Ko itoriality. Ho L- strategy. N lation. Natal	Light. Ada od strategies ooperation. Come range. L fonogamy, p lity, mortalit	aptations. H and special Competion. P ek. Metapop olygamy. 8. y. Kohorts.	ypothermy listaions. 3 Predator and pulations. 7
Gradients. I mammals. W Global clima population.	Long-term Vind energy ate changes	studies. 10. Mammal i and mamma	Habitat frag ntroductions als. Protected	diversity. gmentations. . Repatriation d areas. 13.	Synanthrop ns, reintrodu Vulneralble	eografy. Ma y. 11. Cons lections. Expa species. Min	Population croecology ervation of ansions. 12 imal viable
Gradients. I mammals. W Global clima population. Recommend Feldhamer G and Ecology. Vlasák P., 19	ong-term Vind energy ate changes ed literatu G., Drickam McGraw 1 286. Ekolog	re: re: Hardback re: re: re: Hill Hardback	Habitat frag ntroductions als. Protected SH., Merritt s, 563 pp. cademia, Pr	diversity. gmentations. . Repatriatio d areas. 13. ` t JF., 2000. N aha, 292 pp.	Synanthrop Synanthrop ns, reintrodu Vulneralble Mammalogy:	eografy. Ma y. 11. Cons actions. Expa species. Min Adaptation,	Population croecology ervation or ansions. 12 imal viable Diversity
Gradients. I mammals. W Global clima population. Recommend Feldhamer G and Ecology. Vlasák P., 19 Course lange	ong-term Vind energy ate changes ed literatu G., Drickam McGraw 1 986. Ekolog uage:	studies. 10. Mammal i and mamma re: er L., Vessey Hill Hardback gie cicavcu. A	Habitat frag ntroductions als. Protected SH., Merritt s, 563 pp. cademia, Pr	diversity. gmentations. . Repatriatio d areas. 13. ` t JF., 2000. N aha, 292 pp.	Synanthrop ns, reintrodu Vulneralble s Aammalogy:	eografy. Ma y. 11. Cons actions. Expa species. Min Adaptation,	Population croecology ervation o ansions. 12 imal viable Diversity
Gradients. I mammals. W Global clima population. Recommend Feldhamer G and Ecology. Vlasák P., 19 Course langu Notes:	ong-term Vind energy ate changes ed literatu G., Drickam McGraw 1 086. Ekolog uage:	studies. 10. Mammal i and mamma re: er L., Vessey Hill Hardback ie cicavcu. A	Habitat frag ntroductions als. Protected SH., Merritt x, 563 pp. cademia, Pr	diversity. gmentations. . Repatriatio d areas. 13. ` t JF., 2000. N aha, 292 pp.	Synanthrop ns, reintrodu Vulneralble Aammalogy:	eografy. Ma y. 11. Cons actions. Expa species. Min Adaptation,	Population croecology ervation o ansions. 12 imal viable Diversity
Gradients. I mammals. W Global clima population. Recommend Feldhamer G and Ecology. Vlasák P., 19 Course lange Notes: Course asses Total numbe	ong-term Vind energy ate changes ed literatu G., Drickam McGraw 1 086. Ekolog uage: sment r of assesse	studies. 10. Mammal i and mamma re: er L., Vessey Hill Hardback ie cicavcu. A	SH., Merrit s, 563 pp. cademia, Pr	I diversity. gmentations. . Repatriatio d areas. 13. T t JF., 2000. N aha, 292 pp.	Istanti bioge Synanthrop ns, reintrodu Vulneralble Mammalogy:	eografy. Ma y. 11. Cons actions. Expa species. Min Adaptation,	Dispersion Population croecology ervation o ansions. 12 imal viable Diversity
Gradients. I mammals. W Global clima population. Recommend Feldhamer G and Ecology. Vlasák P., 19 Course langu Notes: Course asses Total number A	ong-term Vind energy ate changes ed literatu G., Drickam McGraw 1 086. Ekolog uage: ssment r of assesse B	A students: 2	Habitat frag ntroductions als. Protected SH., Merrit SH., Merrit SH., S63 pp. Cademia, Pr	E	Synanthrop Synanthrop ns, reintrodu Vulneralble Aammalogy:	eografy. Ma y. 11. Cons actions. Expa species. Min Adaptation,	Population croecology ervation o ansions. 12 imal viable Diversity

Provides: doc. RNDr. Marcel Uhrin, PhD., univerzitný profesor

Date of last modification: 20.09.2021

Approved: prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ PDS/22	urse ID: ÚBEV/Course name: Elaboration and defence of the thesis, successful completionS/22of the dissertation examination				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present					
Number of ECTS cr	edits: 20				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for course completion: Obtaining the required number of credits in the prescribed composition according to the UPJŠ study regulations, preparation and defense of the thesis, successfully completed dissertation examination. Learning outcomes: The PhD student demonstrated the prerequisites for successful continuation of the study by fulfilling					
study related to the topic of the dissertation.					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 20					
	Ν	Р			
	5.0	95.0			
Provides:					
Date of last modifica	ntion: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚBEV/ ODZP/22	Course name: Elaboration and defense of the work, successfully completed dissertation exam			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 30			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for course completion: The Dissertation thesis is the result of the student's own scientific research. It must not show elements of academic fraud and must meet the criteria of correct research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavel Jozef Šafárik University in Košice and its constituents. Fulfillment of the criteria is verified mainly in the process of supervising and in the process of the thesis defense. Failure to do so is grounds for disciplinary action				
Learning outcomes: The Dissertation thesis has elements of a scientific work and the student demonstrates extensive mastery of the theory and professional terminology of the field of study, acquisition of knowledge, skills and competences in accordance with the declared profile of the graduate of the field of study, as well as the ability to apply them in an original way in solving selected problems of the field of study. The student demonstrates the ability of independent scientific work in terms of content, formal and ethical aspects. Further details of the Dissertation thesis are determined by Directive no. 1/2011 on the essential prerequisites of final theses and by the Study Rules of Procedure at UPJŠ in Košice for doctoral studies. The doctoral student demonstrated the ability and readiness for independent scientific and creative activity in the field of study of philology in accordance with the expectations of the relevant qualification framework and the profile of the graduate.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 15				
	N	Р		
	0.0 100.0			

Provides:

Date of last modification: 08.11.2022

Approved: prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafá	rik University in Koši	ce	
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ VPZP/22	Course name: Elaboration of reviewer report		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: dis	nd the method: rse-load (hours): ly period: stance, present		
Number of ECTS cr	edits: 3		
Recommended seme	ster/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for cours Elaboration of review	se completion: ver report		
Learning outcomes: The PhD student der well as knowledge of assess a professional recommend another sciences to his own f	nonstrates broad and s a wide range of metho problem and its prop solution. He applies ield.	scientifically based knowledge in the field of study, as ds and approaches. Demonstrates the ability to critically posed solution, as well as to evaluate it and possibly knowledge and skills from the field of pedagogical	
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 1		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNI	Dr. Ľubomír Kováč, C	Sc.	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ END/04	Course name: Endocrinology
Course type, scope a Course type: Lectur Recommended cour Per week: 1 Per stu Course method: dis Number of ECTS cr	nd the method: re / Practice rse-load (hours): dy period: 14 / 0s tance, present edits: 3 step/trimester of the sources
Course level: III	
Prerequisities:	
Conditions for cours Oral examination. A doctoral student's the	e completion: pplication of knowledge from endocrinology to the solved problem of the sis.
Learning outcomes: To broaden the studer and human organism	t's knowledge of endocrine organ and tissue function at all levels of the animal
Brief outline of the c 1. Chemical structure 2. Hormone biosynth 3. Hormone-receptor 4. Neuroendocrinolog 5. Hormones of thyro 6. Parathyroid glands 7., 8. Hormones of ac 9. Pancreatic islets, ro 10. Hormones and re 11. Neuroendocrine r 12. Hormones of mal 13. Pineal gland. Print	ourse: of hormones, general principles of hormone action. esis, secretion, transport and degradation. interaction, receptor types, transmission of hormonal signal into the cell. gy, hypothalamic-pituitary system. bid gland, regulation of thyroid secretion. , hormonal regulation of calcium and phosphorus homeostasis. drenal glands – adrenal cortex and medulla. egulation of metabolic processes. gulatory peptides of gastrointestinal tract. egulation of food intake and body mass, endocrine activity of adipose tissue. e and female reproduction, hormonal regulation of pregnancy and lactation. heiples of hormonal integration.
Recommended litera 1. Goodman H.M.: B 2. Jameson J.L.: Harr 3. Gardner D.G., Sho Companies Inc., 2011	asic Medical Endocrinology. Academic Press 2009 ison's Endocrinology. McGraw-Hill Companies Inc., 2010 back D.: Greenspan's Basic and Clinical Endocrinology. McGraw-Hill

Course language:

Notes:

Course assessment Total number of assessed students: 17	
N	Р
0.0	100.0
Provides: doc. RNDr. Monika Kassayová, CSc.	
Date of last modification: 23.11.2021	
Approved: prof. RNDr. Ľubomír Kováč, CSc.	

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: CJP/ AJD1/07	Course name: English Language for PhD Students 1
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: dis	nd the method: ce rse-load (hours): dy period: 28 tance, present
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: III.	
Prerequisities:	
Conditions for cours Completion of e-cour Written assignments	e completion: rse English for PhD Students (lms.upjs.sk), consultations (1-3). - Professional/Academic CV, Short Academic Biography.
Learning outcomes: The development of s of their linguistic con syntactic aspects; dev purposeful communic purposes, level B2.	students' language skills - reading, writing, listening, speaking; improvement npetence - students acquire knowledge of selected phonological, lexical and relopment of pragmatic competence - students acquire skills for effective and cation, with focus on Academic English and English for specific/professional
Brief outline of the c Specific aspects of vocabulary developm formation, formal/inf grammar tenses, pass Biography).	ourse: academic and professional English with focus on correct pronunciation, lent (noun and verb collocations, phrasal verbs, prepositional phrases, word- formal language, etc.), selected aspects of English grammar (prepositions, ive voice, etc.), academic writing (professional/academic CV, Short Academic
Recommended litera Moore, J.: Oxford Ac Kolaříková, Z., Petru Košice, Vydavateľstv Tomaščíková, S., Roz Vydavateľstvo Šafáril McCarthy, M., O'Del Štepánek, L., J. De H 2011. Armer, T.: Cambridge Ims.upjs.sk	ture: ademic Vocabulary Practice. OUP, 2017. ňová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. o ŠafárikPress, 2021. zenfeld, J. Developing Academic English in Speaking and Writing. kPress, 2021. 1, F.: Academic Vocabulary in Use. CUP, 2008. aff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., e English for Scientists. CUP, 2011.
Course language: English, level B2 acc	ording to CEFR
Notes:	

Course assessm Total number o	nent f assessed studen	ts: 813			
Ν	Ne	Р	Pr	abs	neabs
0.0	0.0	43.79	0.0	56.09	0.12
Provides: Mgr. Zuzana Kolaříková, PhD.					
Date of last mo	dification: 06.09	0.2024			
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

COURSE INFORMATION LETTER					
University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: CJP/ AJD2/07Course name: English Language for PhD Students 2					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present					
Number of ECTS credits: 3					
Recommended semester/trimester of the course: 2.					
Course level: III.					
Prerequisities:					
Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS)					
The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can effectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2.					
Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development (formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference.					
Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011. Armer, T.: Cambridge English for Scientists. CUP, 2011. Course language: B2 level according to CEFR					
Notes:					
Course assessment Total number of assessed students: 776					
--	-----	-------	------	------	------
NNePPrabsneabs					
0.26	0.0	94.07	1.03	4.51	0.13
Provides: Mgr. Zuzana Kolaříková, PhD., Mgr. Ivana Kupková, PhD.					
Date of last modification: 03.02.2025					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

Paculty: Faculty of Science Course ID: ÚBEV/ SFYZ/04 Course name: Environmental physiology Course type: scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: distance, present Scommended semester/trimester of the course: Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Perequisities: Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: 1. 1. Definition and classification of adaptations. 2. 2. Regulation of energy homeostasis. 3. 3. Molecular basis of food intake regulation. 4. 4. Energy deficit, factors influencing survival in fasting. 5. 5. Increased energy intake and its consequences. 6. 6. High temperature tolerance, limits of survival. 7. 9. Hyperbaria and its effects. 10. 10. Effects of hypergravity and microgravity. 11. 11. Electromagnetic radiation, the significance and effects on living organisms. 12. Xonobiotics	University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Course ID: ÚBEV/ EFYZ/04 Course name: Environmental physiology Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: 1. Definition and classification of adaptations. 2. Regulation of energy homeostasis. 3. Molecular basis of food intake regulation. 4. Energy deficit, factors influencing survival in fasting. 5. Increased energy intake and its consequences. 6. High temperature tolerance, limits of survival. 7. Adaptations to low temperature. 8. Survival in hypobaric environment. 9. Hyperbaria and its effects. 10. Effects of hypergravity and microgravity. 11. Eletromagnetic radiation, the significance and effects on living organisms. 12. Xenobiotics and their metabolism. 13. The effects of environmental xenobiotics on organisms. Recommendel literature:	Faculty: Faculty of Science					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: distance, present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Control level: III. Prerequisities: Control evel: III. Prevention: A control evel: III. Prevention: A co	Course ID: ÚBEV/ EFYZ/04	Course ID: ÚBEV/ Course name: Environmental physiology EFYZ/04				
Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: 1. Definition and classification of adaptations. 2. Regulation of energy homeostasis. 3. Molecular basis of food intake regulation. 4. Energy deficit, factors influencing survival in fasting. 5. Increased energy intake and its consequences. 6. High temperature tolerance, limits of survival. 7. Adaptations to low temperature. 8. Survival in hypobaric environment. 9. Hyperbaria and its effects. 10. Effects of hypergravity and microgravity. 11. Electromagnetic radiation, the significance and effects on living organisms. 12. Xenobiotics and their metabolism. 13. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kambrie K.: Surviving the Extremes. Pengui	Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: dis	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: distance present				
Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Srief outline of the course: 1. Definition and classification of adaptations. 2. Regulation of energy homeostasis. 3. Molecular basis of food intake regulation. 4. Energy deficit, factors influencing survival in fasting. 5. Increased energy intake and its consequences. 6. High temperature tolerance, limits of survival. 7. Adaptations to low temperature. 8. Survival in hypobaric environment. 9. Hyperbaria and its effects. 10. Effects of hypergravity and microgravity. 11. Electromagnetic radiation, the significance and effects on living organisms. 12. Xenobiotics and their metabolism. 13. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamere K.: Surviving the Extremes. Penguin Books, 2004 <td>Number of ECTS cro</td> <td>edits: 4</td>	Number of ECTS cro	edits: 4				
Course level: III. Prerequisities: Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: 1. Definition and classification of adaptations. 2. Regulation of energy homeostasis. 3. Molecular basis of food intake regulation. 4. Energy deficit, factors influencing survival in fasting. 5. Increased energy intake and its consequences. 6. High temperature tolerance, limits of survival. 7. Adaptations to low temperature. 8. Survival in hypobaric environment. 9. Hyperbaria and its effects. 10. Effects of hypergravity and microgravity. 11. Electromagnetic radiation, the significance and effects on living organisms. 12. Xenobiotics and their metabolism. 13. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamer K.: Surviving the Extremes. Penguin Books, 2004	Recommended seme	ster/trimester of the course:				
Prerequisities: Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: 1. Definition and classification of adaptations. 2. Regulation of energy homeostasis. 3. Molecular basis of food intake regulation. 4. Energy deficit, factors influencing survival in fasting. 5. Increased energy intake and its consequences. 6. High temperature tolerance, limits of survival. 7. Adaptations to low temperature. 8. Survival in hypobaric environment. 9. Hyperbaria and its effects. 10. Effects of hypergravity and microgravity. 11. Electromagnetic radiation, the significance and effects on living organisms. 12. Xenobiotics and their metabolism. 13. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Asheroft F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004	Course level: III.					
Conditions for course completion: oral exam Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: 1. Definition and classification of adaptations. 2. Regulation of energy homeostasis. 3. Molecular basis of food intake regulation. 4. Energy deficit, factors influencing survival in fasting. 5. Increased energy intake and its consequences. 6. High temperature tolerance, limits of survival. 7. Adaptations to low temperature. 8. Survival in hypobaric environment. 9. Hyperbaria and its effects. 10. Effects of hypergravity and microgravity. 11. Electromagnetic radiation, the significance and effects on living organisms. 12. Xenobiotics and their metabolism. 13. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamer K.: Surviving the Extremes. Penguin Books, 2004	Prerequisities:					
 Learning outcomes: The aim of this subject is to explain the influence of environmental factors and mechanisms of adaptations in animals and humans. Brief outline of the course: Definition and classification of adaptations. Regulation of energy homeostasis. Molecular basis of food intake regulation. Energy deficit, factors influencing survival in fasting. Increased energy intake and its consequences. High temperature tolerance, limits of survival. Adaptations to low temperature. Survival in hypobaric environment. Hyperbaria and its effects. Effects of hypergravity and microgravity. Electromagnetic radiation, the significance and effects on living organisms. Xenobiotics and their metabolism. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004	Conditions for cours oral exam	e completion:				
 Brief outline of the course: Definition and classification of adaptations. Regulation of energy homeostasis. Molecular basis of food intake regulation. Energy deficit, factors influencing survival in fasting. Increased energy intake and its consequences. High temperature tolerance, limits of survival. Adaptations to low temperature. Survival in hypobaric environment. Hyperbaria and its effects. Effects of hypergravity and microgravity. Electromagnetic radiation, the significance and effects on living organisms. Xenobiotics and their metabolism. The effects of environmental xenobiotics on organisms. Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004	Learning outcomes: The aim of this subject adaptations in animal	ect is to explain the influence of environmental factors and mechanisms of s and humans.				
Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004	Brief outline of the c 1. Definition and class 2. Regulation of energy 3. Molecular basis of 4. Energy deficit, fact 5. Increased energy in 6. High temperature t 7. Adaptations to low 8. Survival in hypoba 9. Hyperbaria and its 10. Effects of hypergr 11. Electromagnetic r 12. Xenobiotics and t 13. The effects of env	ourse: sification of adaptations. gy homeostasis. food intake regulation. tors influencing survival in fasting. ntake and its consequences. olerance, limits of survival. temperature. ric environment. effects. ravity and microgravity. adiation, the significance and effects on living organisms. heir metabolism. vironmental xenobiotics on organisms.				
	Recommended literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Ashcroft F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004					
Notes:						

Course assessment		
Total number of assessed students: 8		
N P		
0.0	100.0	
Provides:		
Date of last modification: 22.09.2023		
Approved: prof. RNDr. Ľubomír Kováč, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ ETO/04	Course ID: ÚBEV/ Course name: Etológia ETO/04		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: distance, present			
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 29			
N P			
0.0 100.0			
Provides: RNDr. Igor Majláth, PhD.			
Date of last modification: 16.05.2021			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

Universitv: P. J. Šafári	k University in Košice		
Faculty: Faculty of Sci	ience		
Course ID: ÚBEV/ Course name: Experimental oncology EXON/04			
Course type, scope an Course type: Lecture Recommended cours Per week: 15 Per stu Course method: dista	d the method: se-load (hours): dy period: 210 ance, present		
Number of ECTS crea	lits: 5		
Recommended semest	er/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for course oral exam	completion:		
Learning outcomes: To clarify the general r its modulation in exper	mechanisms and principles of neoplastic transformation and possibilities of rimental animals.		
 Brief outline of the contract of the	urse: ecular basis of carcinogenesis. upressor genes. 1. onment. ism. on. cinogens. models of carcinogenesis. cer prevention, risk factors. neer chemoprevention. tic chemopreventive substances. vention trials.		
Recommended literat Scientific journal articl Weinberg R.A, The bio	ure: les. blogy of cancer. Garland Science, Taylor and Francis Group, LLC, 2007.		
Course language:			
Notes:			

Course assessment		
Ν	Р	
0.0	100.0	
Provides: doc. RNDr. Bianka Bojková, PhD.		
Date of last modification: 14.07.2022		
Approved: prof. RNDr. Ľubomír Kováč, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ IMU/04	Course ID: ÚBEV/ Course name: Immunology MU/04			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 20s Course method: distance, present				
Number of ECTS cr	edits: 5			
Recommended seme	ster/trimester of the cours	e: 2., 4.		
Course level: III.	Course level: III.			
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:	Learning outcomes:			
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 41				
N P				
0.0 100.0				
Provides: RNDr. Vlasta Demečková, PhD., univerzitná docentka				
Date of last modification: 22.09.2023				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ NEM/04	Course ID: ÚBEV/ Course name: Implementation of new experimental methodology NEM/04			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 15			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.	Course level: III.			
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asses	ssed students: 118			
abs n				
100.0 0.0				
Provides:				
Date of last modification:				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ C ZC/22	Course name: Internacional Journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS cred	lits: 8		
Recommended semeste	er/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course Publication accepted in	completion: a foreign journal as an au	thor/co-author.	
Learning outcomes: By publishing in a foreign journal as an author/co-author, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.			
Brief outline of the course:			
Recommended literatu	ure:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 5			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ MKZ/22	Course name: International Conference			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cro	edits: 10			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Active participation i	e completion: n an international conferenc	e abroad.		
By actively participating in an international scientific conference abroad, the phD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence to use existing theories and concepts in an innovative way, as well as generate new original scientific knowledge and communicate research results to a wider audience by adequate means and through a foreign language.				
Brief outline of the course:				
Recommended litera	ture:			
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 20				
	abs	n		
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

Faculty: Faculty of Science			
Course ID: ÚBEV/ ZSP1/22Course name: International Study Stay less than 30 Days			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS credits: 5			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for course completion: Completion of a foreign study stay lasting less than 30 days.			
By completing a shorter study stay, the PhD student demonstrates the ability to reflect on research problems and work critically with sources at an expert level and in an interdisciplinary context while being able to generate new knowledge. He is able to actively communicate at an expert level in more than one language. He acts as a responsible independent scientist, works independently and in a group with the aim of pushing the boundaries of knowledge and transferring them to other area of research, to practice and to the wider public. He can competently argue and explain his ideas.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 9			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ C ZSP2/22	Course name: International Study Stay more than 30 Days		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance present			
Number of ECTS credi	its: 10		
Recommended semeste	er/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course c Completion of a foreign	completion: a study stay lasting more t	han 30 days.	
By completing the stud problems and work crit while being able to gene in more than one langua in a group with the aim of of research, to practice a	dy stay, the PhD student ically with sources at an erate new knowledge. He ge. He acts as a responsible of pushing the boundaries and to the wider public. H	demonstrates the ability to reflect on research expert level and in an interdisciplinary context, is able to actively communicate at an expert level le independent scientist, works independently and of knowledge and transferring them to other areas le can competently argue and explain his ideas.	
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assesse	d students: 8		
al	DS	n	
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ DKZU/22	: ÚBEV/ Course name: International conference taking place in the country of residence			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 5			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Active participation i	e completion: in a national conference with	foreign participation.		
By actively participating in a scientific conference, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence to use existing theories and concepts in an innovative way, as well as generate new original scientific knowledge and communicate research results to a wider audience by adequate means and through Slovak or a foreign language.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 17				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ SIG/22	ID: ÚBEV/ Course name: Member of the internal project team			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 3			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Co-worker of project	e completion: supported by internal grant	schemes (VVGS)		
The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective within the internal grant system at UPJŠ. By solving the internal VVGS grant, he acquires the ability to implement the project plan according to the established procedure, adhere to the project schedule, coordinate his own activities with colleagues, and participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project.				
Brief outline of the c	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 19				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ Course name: Membership POVK/22	Course name: Membership in conference organising committee		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS credits: 3			
Recommended semester/trimester of the course	:		
Course level: III.			
Prerequisities:			
Conditions for course completion: Work in the organizing committee of the conferen	ice		
By working in the organizing committee of the conference, the PhD student demonstrates the abilities and competences to organize a scientific or professional event independently or in a team, to manage the implementation in terms of time and content, to communicate effectively verbally and in writing using various technical means as needed, including in a foreign language at a professional level with various types of people, if necessary, correctly recommend solutions or make independent decisions.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 4			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚFV/ MMB/14	Course name: Methods of molecular biology		
Course type, scope a Course type: Lectu Recommended cou Per week: Per stud Course method: dis	and the method: re rse-load (hours): ly period: 28s stance, present		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cour Six written and elect	se completion: ronic exercises regarding course work within duration of the course		
Learning outcomes: Students will be able and predict protein c able to design prime	to analyze DNA and protein sequences. Further, they will be able to compare haracteristics at the level of primary and secondary structure. Students will be rs and mutations for protein cDNA.		
Brief outline of the of Analysis of recombinand techniques of ge Week 1 - Complete of Week 2 - BLAST sea Week 3 - Calculation Week 4 - Assignmen or plant species. Week 5 - PCR. Week 6 - Designing Week 7 - Recombinat Week 8 - Assignmen Week 9 - Protein vist Week 10 - RasMol a Week 11 - Individuat	course: nant DNA molecules, electrophoresis, antibody protein detection, description ne manipulation (mutations and genetic diseases). coding sequence (CDS) of a gene or protein. arch and sequence comparison. a of protein properties. t - analysis of selected protein - comparison of sequences from different animal basic primers. int DNA. t - design of own primers for targeted mutation in protein. ualization. nd protein animation. assignments		
Recommended liter: B. Alberts, A. Johnse Garland Science 200 Current Protocols in Mac Vector 11.0 soft http://www.ncbi.nlm http://www.ncbi.nlm http://www.ncbi.nlm http://blast.ncbi.nlm	ature: on, J. Lewis, M. Raff, K. Roberts, P. Walter: Molecular Biology of the Cell, 8 (Fifth Ed.) Molecular Biology, Wiley publishers. wer Manual .nih.gov .nih.gov/pubmed .nih.gov/pubmed .nih.gov/Blast.cgi		

http://www.cybertory.org/exercises/primerDesign/index.html http://www.fermentas.com/templates/files/tiny_mce/media_pdf/3_PCR_Troubleshooting.pdf http://igene.invitrogen.com/products/selector/vectors http://www.genomics.agilent.com http://www.origene.com/cdna/ http://www.rcsb.org/pdb/home/home.do http://www.rasmol.org/software/RasMol_2.7.4/			
Course language:			
Slovak and English.			
Notes:			
Course assessment Total number of assessed students: 26			
N	Р		
0.0 100.0			
Provides: doc. RNDr. Katarína Štroffeková, PhD., prof. RNDr. Erik Sedlák, DrSc., RNDr. Alexandra Zahradníková, PhD.			
Date of last modification: 21.09.2021			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ MONB/22Course name: Monograph	Irse ID: ÚBEV/ Course name: Monograph NB/22			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 20				
Recommended semester/trimester of the course	e:			
Course level: III.				
Prerequisities:				
Conditions for course completion: Co-author of the monograph.				
By publishing a monograph, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. It demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The doctoral student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 0				
abs n				
0.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ MONA/22	Course name: Monograph in a renowned publishing house				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: dis	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance present				
Number of ECTS cro	edits: 40				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours Co-author of a monog	e completion: graph in a renowned publish	ing house.			
By publishing a monograph in a renowned publishing house, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The doctoral student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.					
Brief outline of the c	Brief outline of the course:				
Recommended literature:					
Course language:	Course language:				
Notes:					
Course assessment Total number of assessed students: 0					
	abs n				
0.0 0.0					
Provides:					
Date of last modification: 08.11.2022					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ NAT/10	Course name: Neuroanatomy				
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 0 Per Course method: dis	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 0 Per study period: 28 / 0 Course method: distance present				
Number of ECTS cr	redits: 3				
Recommended seme	ester/trimester of the course:				
Course level: III.					
Prerequisities:					
Conditions for cours 1. compulsory partic 2. oral exam during structure, functions a	se completion: ipation on Anatomy lectures, max. 3 absences per semester summer exam period. Exam grade depends on the gained knowledge on the and spatial organization of individual parts of nervous system.				
After successful con organization of centr of nervous system in signal at various leve for further study of N	mpletion of the lectures, student masters the knowledge on anatomy and al and peripheral nervous system. Student understands the particular functions homeostasis, sensory perception, motor functions, as well as in processing of els of nervous system. Successful completion of the lectures prepare students Neurophysiology, Neuropsychology, etc.				
 Brief outline of the course: introduction to neuroanatomy, basic principles of functional neuroanatomy, classification of the nervous system, dividing of the Nervous System (CNS, PNS, autonomous NS, somatic NS), the spinal cord and nervous tracts the brainstem: medulla oblongata, pons, mesencephalon peripheral nervous system: spinal and cranial nerves the cerebellum the diencephalon - topography, organization, basal ganglia the telencephalon - cerebral cortex (paleopalium, archipallium), limbic system the telencephalon - neocortex: associative cortex the telencephalon - neocortex: associative cortex the telencephalon, cerebral cortex (paleopallium, archipallium, neopallium) and basal ganglia ventricular system of the brain, meninges and blood supply, autonomic nervous system: symphatetic and parasymphathetic 					
Recommended litera Lovásová, K., Kluch UPJŠ 2015	ature: ová, D., Boleková, A.:Neuroanatómia pre psychológov, Košice, Equilibria,				
withtosova wi Affalo	Jina, Rusice, Equinona, Ur jo 2011				

Druga R., Grim M., Dubový P.: Anatomie centrálního nervového systému Galén Karolinum,

2011 Ševc, J., Mochnacký, F.: Anatomické termíny pre jednoodborové a medziodborové štúdium biológie, UPJŠ, e-book (https://unibook.upjs.sk/sk), 2020

Course language:							
Notes:							
Course assessment Total number of assessed students: 32							
А	В	C	D	Е	FX	Ν	Р
18.75	9.38	6.25	0.0	0.0	3.13	0.0	62.5
Provides: doc. RNDr. Juraj Ševc, PhD.							
Date of last modification: 07.09.2021							
Approved: prof. RNDr. Ľubomír Kováč, CSc.							

Faculty: Faculty of Science Course ID: ÜBEV/ NEU/04 Course name: Neuronal basis of behavior. Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per weck: Per study period: 15s Course method: distance, present Number of ECTS credits: 6 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Oral examination. Coral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: . 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of exual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 12. Biological origin of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. 13. Genetic	University: P. J. Šafárik University in Košice					
Course ID: ÚBEV/ NEU/04 Course name: Neuronal basis of behavior. Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per weck: Per study period: 15s Course method: distance, present Number of ECTS credits: 6 Recommended semester/trimester of the course: Course level: III. Prerequisities: Control course completion: Oral examination. Coral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3.The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 9. Neural control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 12. Biological origin of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kessner, J.L.Martinez: Neurobiology. Sinauer Assoc.,Sunderland (USA),	Faculty: Faculty of Science					
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 15s Course method: distance, present Number of ECTS credits: 6 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Oral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neurohol of eating behaviour. 8. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. 10. Control of sexual behaviour. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. 14. Brains centers of speach and its disorders. 15.	Course ID: ÚBEV/ NEU/04	Course ID: ÚBEV/ Course name: Neuronal basis of behavior. NEU/04				
Number of ECTS credits: 6 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Oral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3.The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of escual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 13. Genetic bases of behaviour. 14. Weickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. 17. J.Carew: Behavioral Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academi	Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: dis	Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 15s Course method: distance, present				
Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Oral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 8. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. Recommended literature: A. Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language:	Number of ECTS cr	edits: 6				
Course level: III. Prerequisities: Conditions for course completion: Oral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 8. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. Recommended literature: A.Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language: Notes:	Recommended seme	ster/trimester of the course:				
Prerequisities: Conditions for course completion: Oral examination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3.The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 8. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. A. Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language: Notes:	Course level: III.					
Conditions for course completion: Oral examination. Chearning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 8. Neurobiology of sleep. 9. 9. Neuaral control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. 8. A. Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioal Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language: Nutes:	Prerequisities:					
Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 8. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. A. Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J. Carew: Behavioan Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L. Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language: Notes:	Conditions for cours Oral examination.	e completion:				
Brief outline of the course: 1. Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. 3. The role of the left and right hemispheres in control of various types of behaviour. 4. Neurodegenerative processes in the CNS. 5. Biological basis of patological deviations of behaviour in humans. 6. Neurophysiology of addiction. 7. Neuronal control of eating behaviour. 8. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. 10. Control of circadian rhythms by CNS. 11. Brains centers of speach and its disorders. 12. Biological origin of mental disorders. 13. Genetic bases of behaviour. A.Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language: Notes:	Learning outcomes: This subject is aimed	to provide knowledge on the correlation between processes in				
Recommended literature: A.Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007. Course language: Notes:	Brief outline of the c 1. Neuronal mechanis 2. Neurochemistry of 3.The role of the left 4. Neurodegenerative 5. Biological basis of 6. Neurophysiology of 7. Neuronal control of 8. Neurobiology of sl 9. Neuaral control of 10. Control of circadi 11. Brains centers of 12. Biological origin 13. Genetic bases of l	ourse: sms of learning and memory. Femotions. and right hemispheres in control of various types of behaviour. processes in the CNS. Fpatological deviations of behaviour in humans. of addiction. of eating behaviour. leep. sexual behaviour. ian rhythms by CNS. speach and its disorders. of mental disorders. behaviour.				
Course language: Notes:	Recommended literature: A.Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. T.J.Carew: Behavioral Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,,2007.					
Notes:	Course language:					
	Notes:					

Course assessment Total number of assessed students: 22		
N P		
0.0	100.0	
Provides: RNDr. Natália Pipová, PhD.		
Date of last modification: 21.10.2021		
Approved: prof. RNDr. Ľubomír Kováč, CSc.		

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚBEV/ NRZ/22	Course name: Non-reviewed collections of papers and monographs published abroad or in the country of residence				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: dis	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance present				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours A publication publish	se completion: ned in a non-reviewed foreig	n or national journal as an author/co-author.			
By publishing in a non-reviewed foreign or national journal as an author/co-author, the PhD student demonstrates the ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The phD student demonstrates the ability to finalize his own thoughts in a written speech.					
Brief outline of the c	Brief outline of the course:				
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 15					
	abs n				
100.0 0.0					
Provides:					
Date of last modification: 08.11.2022					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Sci	ience			
Course ID: ÚBEV/ PAR2/03	Course name: Parasitology II			
Course type, scope an Course type: Lecture Recommended cours Per week: 1 / 1 Per st Course method: dista	d the method: / Practice e-load (hours): tudy period: 14 / 14 ance, present			
Number of ECTS cree	lits: 3			
Recommended semest	cer/trimester of the course: 2.			
Course level: II., III.				
Prerequisities:				
Conditions for course active participation in presentation of semina continuous written exa oral examination	completion: practical exercises r work minations			
Learning outcomes: After completing the c - knowledge of diagno - practical use of method - evaluate the method o	ourse Parasitology II. students will demonstrate stic methods commonly used in parasitology ods commonly used in parasitology f detection and identification on the basis of knowledge of parasite life cycles			
Brief outline of the co The course builds on includes vectors transm Syllabus: Week 1: Parasitic adap Week 2: Parasite-host Week 3: Behavioral str Week 4: Effect of the p Week 5: Vector-borne Week 6: Vector-borne Week 6: Vector-borne Week 8: Laboratory di Week 9: Flotation and Week 10: Molecular de Week 11: Methods of o Week 13: Parasitologio	urse: the knowledge acquired in the Parasitology I. course, expands them and nitted organisms. It focuses on mastering the methods used in parasitology. tations interactions rategies of parasites parasite on host behavior viruses bacteria parasites agnostic methods serological methods etection and identification capturing vertebrates for parasitological purposes capturing invertebrates for parasitological purposes cal autopsy			
Recommended literat 1. Roberts, Janovy Jr. 1 Education, 701pp.	ure: Nadler,Foundations of Parasitology, 9th edition, 2012 McGraw-Hill			

2. Loker, Parasitology: A Conceptual Approach, 2015, Garland Science, 560 pp.							
Course lan slovak, eng	guage: glish						
Notes:							
Course assessment Total number of assessed students: 79							
А	В	C	D	E	FX	Ν	Р
75.95	7.59	5.06	1.27	1.27	1.27	0.0	7.59
Provides: RNDr. Viktória Majláthová, PhD., univerzitná docentka, RNDr. Mikuláš Oros, DrSc.							
Date of last modification: 17.09.2021							
Approved: prof. RNDr. Ľubomír Kováč, CSc.							

	COURSE INFORMATION LETTER		
University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: KPE/ PgVU/17	Course name: Pedagogy for University Teachers		
Course type, scope a Course type: Lectu Recommended cou Per week: Per stud Course method: dis	and the method: re rse-load (hours): ly period: 28s stance, present		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cours 1. Development of a 2. Compulsory active	se completion: teaching diary—100% e participation and attendance in accordance with the Study Regulations.		
Learning outcomes:After completing thebe able to:KnowledgeDefine and apply bauniversity-level profiteteacher aimed at efilelearning outcomes. Fileimproving the qualitySkillsImplement effectivetailored to the needprogress, and applyreflect on one's ownof professional subjePresent specific propand innovative pedagCompetenciesConfidently and efficcompetencies that competencies that competenciesachieve a higher qualoptimize the teaching	course, the student will acquire knowledge, skills, and competencies, i.e., will sic didactic principles, methods, forms, and tools in the teaching process of essional subjects. Identify and specify educational procedures of a university fective teaching management, pedagogical diagnostics, and assessment of tecognize different approaches to pedagogical evaluation and their impact on y of the educational process at the university level. educational methods and techniques into the teaching of professional subjects, s of university students. Conduct pedagogical diagnostics, assess students' appropriate evaluation methods to improve learning outcomes. Analyze and teaching process, identify areas for improvement, and enhance the teaching cts, including the rationalization of the time and content structure of teaching. osals for improving the teaching process, including the use of new technologies gogical approaches.		
The personality of a	university teacher. Teaching styles. Student in university education. Student		

The personality of a university teacher. Teaching styles. Student in university education. Student learning styles. Possibilities of adapting teaching styles and student learning styles. University teacher–student interaction and communication in the teaching process. Pedagogical competencies

of a university teacher. Didactic analysis of the curriculum; teaching materials and textbooks. Forms of university teaching. Methods of university teaching. Verification methods and student assessment. Creation of a didactic test. Designing university teaching process. University teacher self-reflection.

Recommended literature:

Beránek, J. (2023). Moderní pedagogické metody a přístupy. Praha: Portál.

Fiala, M. (2023). Didaktika a metodika v současné škole. Praha: Grada Publishing.

Kováč, M. (2023). Vzdelávanie v 21. storočí: Inovatívne prístupy a metódy. Nitra: Vydavateľstvo UKF v Nitre.

Koudelka, J. (2023). Moderní didaktika a její aplikace. Praha: Karolinum.

Křížová, M., & Šebová, P. (2023). Vzdělávání učitelů: Teoretické a praktické přístupy. Praha: Triton.

Kučerová, M. (2023). Vzdělávání učitelů a profesionální rozvoj. Praha: Triton.

Mocová, M., & Lázňovská, M. (2023). Pedagogika a jej aplikácie v praxi. Bratislava:

Vydavateľstvo Spolku slovenských pedagogických pracovníkov.

Novák, J., & Pol, M. (2024). Pedagogické výzkumy a inovace ve vzdělávání. Praha: Portál.

Sikora, J. (2022). Didaktika a metodika vzdelávania: Nové výzvy a trendy. Bratislava:

Vydavateľstvo Univerzity Komenského v Bratislave.

Škoda, J. (2022). Efektivní výuka: Praktické strategie a metody. Praha: Grada Publishing. Švec, J. (2023). Didaktika a školní politika: Teorie a praxe. Praha: Grada Publishing. Vojtová, K. (2024). Diferenciace a inkluze ve vzdělávání. Praha: Wolters Kluwer.

Course language:

slovak

Notes:

Course assessment Total number of assessed students: 152				
abs	n	neabs		
98.03	0.66	1.32		
Provides: doc. PaedDr. Renáta O	rosová, PhD.			
Date of last modification: 14.09.	2024			
Approved: prof. RNDr. Ľubomír	Kováč, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ RZ/22	Course name: Peer-reviewed collections of papers and monographs published abroad or in in the country of residence			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cro	edits: 5			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours A publication publish	e completion: ed in a peer-reviewed foreig	n or national proceedings as an author/co-author.		
By publishing in a peer-reviewed foreign or national journal as an author/co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.				
Brief outline of the course:				
Recommended litera	Recommended literature:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 32				
	abs n			
	100.0 0.0			
Provides:				
Date of last modifica	Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚBEV/ POP/22	Course name: Popularisation of science				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present					
Number of ECTS cr	edits: 5				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for course Active involvement i	Conditions for course completion: Active involvement in the popularization of science.				
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his scie	to present science to the latify the target group and ac ge. A PhD student is able to a entific work, but also in the	ay public, use interactive methods of scientific lapt the communication language to the level of arouse interest and motivate specific target groups wider context of science.			
Brief outline of the course:					
Recommended literature:					
Course language:	Course language:				
Notes:					
Course assessment Total number of asse	ssed students: 62				
abs n		n			
	100.0 0.0				
Provides:	Provides:				
Date of last modification: 08.11.2022					
Approved: prof. RNI	Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ VYS/22Course name: Presentation a	ÚBEV/ Course name: Presentation at the seminar			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 5				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion: Presentation at the seminar				
Learning outcomes: By actively participating in the seminar, the PhD student demonstrates the ability to identify, evaluate, and apply correct scientific methods or research methodology in his field of study. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence in using existing theories and concepts in an innovative way, as well as generating new original scientific knowledge and communicating research results by adequate means and through Slovak or a foreign language.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 50				
abs	n			
100.0	0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ ZRIG/22	Course name: Principal investigator of an internal grant (VVGS)		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Principal investigator	se completion: r of an internal grant (VVGS	5)	
The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results.			
Brief outline of the course:			
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 24			
abs n			
	100.0 0.0		
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

COURSE INFORMATION LETTER			
University: P. J. Šafa	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: KPPaPZ/PsVU/17	: Course name: Psychology for University Lecturers		
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 28s Course method: distance, present Number of ECTS credits: 5			
Recommended sem	ester/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cour Case study, micro-ou Current modification Learning outcomes: After completing the summarize and explae motivation psychology. The for the professional, to create and implement and develop the conthe application of pherication performance of their	se completion: itput, its analysis is of the course are listed in the electronic bulletin board of the course. The course, students will gain knowledge that allows them to understand, ain selected psychological knowledge from cognitive psychology, emotion and gy, personality psychology, developmental, social, educational psychology and 'hey will acquire skills to apply the above psychological knowledge necessary competent performance of university teaching practice of doctoral students nent the teaching of a professional topic with applied psychological knowledge mpetences to create and implement teaching of a professional topic with sychological knowledge, as well as to evaluate their performance and the classmates in the form of constructive feedback.		
Brief outline of the of The content of the of psychology of emotion psychology and hear interactive, experient of independence, ac in the teaching processocial and competent student relationship of and motivation. development	course: ourse is based on selected psychological knowledge of cognitive psychology, ons and motivation, personality psychology, developmental, social, educational alth psychology. Teaching is realized by a combination of lectures with tial methods, discussion, open communication with mutual respect, support tivity and motivation of students. Syllabus: University teacher and his work ess with a focus on: teachers in relation to themselves (cognitive, personal, cies in the use of methods), in relation to students and as part of the teacher- on the basis of selected areas of cognitive psychology, psychology of emotions elopmental psychology, social psychology, educational psychology and health		

psychology with application to the university environment

Recommended literature:

Alexitch, L. R. (2005). Applying social psychology to education. Social Psychology.–Ed.: Schneider F., Gruman J., Coutts L.–Sage Publications, Inc, 205-228.

Fry, H., Ketteridge, S., & Marshall, S. (2008). A handbook for teaching and learning in higher education: Enhancing academic practice. Routledge.

Mareš, J.: Pedagogická psychologie. Portál, 2013.

Kniha psychologie. Universum, 2014

Čáp, J., Mareš, J.: Psychologie pro učitele. Praha: Portál 2007.

Vágnerová, M.: Školní poradenská psychológie pro pedagogy. Praha: Karolínum 2005.

Cuevas, J. A., Childers, G., & Dawson, B. L. (2023). A rationale for promoting cognitive science in teacher education: Deconstructing prevailing learning myths and advancing research-based practices. Trends in neuroscience and education, 100209.

Course language: slovak			
Notes:			
Course assessment Total number of assessed students: 87			
abs	n	neabs	
98.85	0.0	1.15	
Provides: PhDr. Anna Janovská, PhD.			
Date of last modification: 09.12.2024			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Sc	cience		
Course ID: ÚBEV/ Q1SA/22	Course name: Q1 journal as co-author		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS cre	edits: 30		
Recommended semes	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course Publication accepted i	e completion: in a journal of category Q1	as co-author.	
Learning outcomes: By publishing in a journal of category Q1 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.			
Brief outline of the course:			
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 10			
	abs n		
]]	100.0 0.0		
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ Q11A/22	Course name: Q1 journal as first or corresponding author			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS cr	edits: 40			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Publication accepted	e completion: in a journal of category Q1	as first or corresponding author.		
By publishing in a journal of category Q1 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.				
Brief outline of the course:				
Recommended literature:				
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 4				
	abs	n		
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				
University: P. J. Šafárik University in Košice	University: P. J. Šafárik University in Košice			
---	--	--	--	
Faculty: Faculty of Science				
Course ID: ÚBEV/ Q2SA/22Course name: Q2 journal	as co-author			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 20				
Recommended semester/trimester of the cours	e:			
Course level: III.				
Prerequisities:				
Conditions for course completion: Publication accepted in a journal of category Q2	as co-author.			
Learning outcomes: By publishing in a journal of category Q2 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 14				
abs	n			
100.0	0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚBEV/ Course name: Q2 journal as first or corresponding author Q21A/22			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS cr	edits: 30		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Publication accepted	e completion: in a journal of category Q2	as first or corresponding author.	
By publishing in a journal of category Q2 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 10		
	abs	n	
	100.0	0.0	
Provides:	Provides:		
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚBEV/ Course name: Q3 journal a Q3SA/22	as co-author	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present		
Number of ECTS credits: 15		
Recommended semester/trimester of the course	2:	
Course level: III.		
Prerequisities:		
Conditions for course completion: Publication accepted in a journal of category Q3 a	as co-author	
Learning outcomes: By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 2		
abs	n	
100.0	0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Ľubomír Kováč, CSc.		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ Q31A/22	Course name: Q3 journal	as first or corresponding author
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present		
Number of ECTS cr	edits: 25	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a journal of category Q3	as first or corresponding author
By publishing in a journal of category Q3 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 1	
	abs	n
	100.0	0.0
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNI	Dr. Ľubomír Kováč, CSc.	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚBEV/ Q4SA/22Course name: Q4 journal a	as co-author	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present		
Number of ECTS credits: 10		
Recommended semester/trimester of the course	e:	
Course level: III.		
Prerequisities:		
Conditions for course completion: Publication accepted in a journal of category Q4	as co-author.	
Learning outcomes: By publishing in a journal of category Q4 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 2		
abs	n	
100.0	0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Ľubomír Kováč, CSc.		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ Q41A/22	Course name: Q4 journal a	as first or corresponding author
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present		
Number of ECTS cr	edits: 20	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a journal of category Q4	as first or corresponding author.
By publishing in a journal of category Q4 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 2	
	abs	n
	100.0	0.0
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Ľubomír Kováč, CSc.		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ VPZ/22	Course name: Scientific v	vork after sending to the editorial office
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: dis Number of ECTS cr Recommended seme Course level: III.	nd the method: rse-load (hours): y period: tance, present edits: 5 ster/trimester of the cours	se:
Prerequisities:		
Conditions for cours Scientific work after Learning outcomes:	e completion: being sent to the editorial o	ffice as an author/co-author.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 12	
	abs	n
	100.0	0.0
Provides:		·
Date of last modifica	tion: 08.11.2022	
Approved: prof. RNI	Dr. Ľubomír Kováč, CSc.	

7

Г

University:	P. J. Šafárik	University in	n Košice				
Faculty: Faculty of Science							
Course ID: VKH1/03	ÚBEV/ C	ourse name:	Selected top	ics in herpe	etology		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: distance, present							
Number of	ECTS credi	its: 4					
Recommen	ded semeste	er/trimester	of the course	2.			
Course leve	el: II., III.						
Prerequisit	ies:						
Conditions Field excur Oral exami	for course c sion nation.	completion:					
Learning outcomes: To broaden the knowledge of students on evolution, taxonomy, morphology, ecology and ecology of reptiles aquired before in the subject Zoology.							
Brief outline of the course: Systematical overview of amphibia and reptilia with a classification on species level. Phylogenetical development of amphibia and reptilia. Charcteristics of morphological and ecophysiological adaptations. Adaptations on the significant abiotic and biotic factors (food, tepmerature, substrate, humidity, etc.). Selected aspects of population dynamics of some groups. Behavioral manifestations of amphibia and reptilia from a comparative aspect.							
 Recommended literature: 1. BARUŠ V. a kol.: Reptiles-Reptilia (Fauna of the ČSFR),Prague, 1992 (in Czech) 2. BARUŠ V. a kol.: Amphibia (Fauna of the ČSFR). Prague,1992. (in Czech) 3. OLIVA O., HRABĚ S., LÁC J. : Vertebrates of Slovakia I. Bratislava, 1968 (in Slovak 4. ROČEK Z.: Studies in Herpetology. Praha, 1986. 5. ZWACH I. : Our species of amphibia and reptilia on the photograph. Prague,1990. 6. DIESENER G., REICHHOLF J.: Amphibia and reptilia. Bratislava,1997 							
Course lan	guage:						
Notes:							
Course assessment Total number of assessed students: 169							
A	В	С	D	Е	FX	N	Р
88.76	4.14	2.37	0.0	0.0	0.0	0.0	4.73
Provides: R	Provides: RNDr. Igor Majláth, PhD.						
Date of last	modificatio	on: 16.05.202	.1				

Approved: prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ Course name: Self-motivated Study on Scientific Literature SSOL/24			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present			
Number of ECTS cr	edits: 15		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.	Course level: III.		
Prerequisities:	Prerequisities:		
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 0		
	abs n		
	0.0 0.0		
Provides:			
Date of last modification:			
Approved: prof. RNI	Dr. Ľubomír Kováč, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ SSOL/04	Course name: Self-motiva	ted Study on Scientific Literature	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: dis	nd the method: rse-load (hours): y period: tance, present		
Number of ECTS cro	edits: 2		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:	Prerequisities:		
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	Brief outline of the course:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 294		
	abs n		
	100.0 0.0		
Provides:			
Date of last modification:			
Approved: prof. RNI	Dr. Ľubomír Kováč, CSc.		

University: P. J. Safarik	University	/ In Kosice
----------------------------------	------------	-------------

Faculty: Faculty of Science

Course ID: Dek. PF	Course name: Spring School for PhD Students
UPJŠ/JSD/14	

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d

Course method: distance, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Active participation in the Spring School of PhD students of UPJŠ.

Learning outcomes:

By actively participating in the Spring School of PhD Students of UPJŠ, the PhD student demonstrates a high level of ability to process the issues of his dissertation for a multidisciplinary audience with an emphasis on clarifying the motivation, scientific problem, processing methodology and own contribution to the solution of the selected topic. The PhD student demonstrates the ability to professionally discuss various research topics, present his own positions and accept a plurality of opinions. Demonstrates the ability to communicate research results to a wider professional audience with adequate means and through the Slovak language.

Brief outline of the course:

1. Interdisciplinary lectures from the fields of medicine, natural sciences, law, public affairs, humanities. Lecturers - top foreign or national experts from the mentioned fields.

2. Scientific lectures in sections created within related disciplines. Lecturers - top experts from UPJŠ from the mentioned fields.

3. Scientific contributions of PhD students in sections of related fields.

4. Panel discussions on the issue of PhD studies and current trends in the development of scientific disciplines at UPJŠ.

Recommended literature:

Proceedings of the Spring School of Doctoral Students.

Course language:

Notes:

Course assessment

Total number of assessed students: 203

abs	n
100.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 08.11.2022

Approved: prof. RNDr. Ľubomír Kováč, CSc.

University: P. J. Satarik University in Kosice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ VPSV/22Course name: Supervision of Student's Scientific Activity				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 8				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion: Supervision of Student's Scientific Activity				
Learning outcomes: By guiding a student within the SOČ or ŠVOČ, the PhD student demonstrates broad and scientifically based knowledge in the field of study, as well as knowledge of a wide range of methods and approaches. Demonstrates the ability to critically assess a professional problem and its proposed solution, as well as to evaluate it and possibly propose another solution. He applies knowledge and skills from the field of pedagogical sciences to his own field.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 2				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ PPC1/22Course name: Teaching act	Course name: Teaching activities 1h/s			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 2				
Recommended semester/trimester of the courses				
Course level: III.				
Prerequisities:				
Conditions for course completion: Direct teaching activity 1 semester hour				
Through pedagogical activity, the PhD student demonstrates the ability to transfer and integrate knowledge from his own field of study into education. He is able to select and apply the right techniques and strategies of study group management, higher education and evaluation of learning outcomes. He is capable of designing and implementing part of the educational process in accordance with current trends in higher education and the requirements placed on the level of communication and digital competencies.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 8				
abs	n			
100.0	0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ PPC2/22Course name: Teaching ac	Course name: Teaching activities 2 h/s			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance present				
Number of ECTS credits: 4				
Recommended semester/trimester of the course	8:			
Course level: III.				
Prerequisities:				
Conditions for course completion: Direct teaching activity 2 semester hours				
Learning outcomes: Through pedagogical activity, the PhD student demonstrates the ability to transfer and integrate knowledge from his own field of study into education. He is able to select and apply the right techniques and strategies of study group management, higher education and evaluation of learning outcomes. He is capable of designing and implementing part of the educational process in accordance with current trends in higher education and the requirements placed on the level of communication and digital competencies.				
Brief outline of the course:	Brief outline of the course:			
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 15				
abs	n			
100.0	0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ PPC3/22	Course name: Teaching activities 3 h/s				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present					
Number of ECTS cro	edits: 6				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours Direct teaching activit	e completion: ty 3 semester hours				
Learning outcomes: Through pedagogical activity, the PhD student demonstrates the ability to transfer and integrate knowledge from his own field of study into education. He is able to select and apply the right techniques and strategies of study group management, higher education and evaluation of learning outcomes. He is capable of designing and implementing part of the educational process in accordance with current trends in higher education and the requirements placed on the level of communication and digital competencies.					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 9					
	abs	n			
	100.0	0.0			
Provides:					
Date of last modification: 08.11.2022					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ PPC4/22Course name: Teaching activitie	Course name: Teaching activities 4 h/s			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 8				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion: Direct teaching activity 4 semester hours				
Through pedagogical activity, the PhD student demonstrates the ability to transfer and integrate knowledge from his own field of study into education. He is able to select and apply the right techniques and strategies of study group management, higher education and evaluation of learning outcomes. He is capable of designing and implementing part of the educational process in accordance with current trends in higher education and the requirements placed on the level of communication and digital competencies.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 16				
abs	n			
100.0	0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ KZP/22Course name: Thesis consultant				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 4				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion: Final thesis consultant.				
Learning outcomes: By consulting the final thesis, the PhD student demonstrates broad and scientifically based knowledge in the field of study, as well as knowledge of a wide range of methods and approaches. Demonstrates the ability to critically assess a professional problem and its proposed solution, as well as to evaluate it and possibly propose another solution. He applies knowledge and skills from the field of pedagogical sciences to his own field.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 29				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ VZP/22Course name: Thesis supervising				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: distance, present				
Number of ECTS credits: 8				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion: Supervisor of the final thesis.				
Learning outcomes: By supervising the final thesis, the PhD student demonstrates broad and scientifically based knowledge in the field of study, as well as knowledge of a wide range of methods and approaches. Demonstrates the ability to critically assess a professional problem and its proposed solution, as well as to evaluate it and possibly propose another solution. He applies knowledge and skills from the field of pedagogical sciences to his own field.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 12				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Ľubomír Kováč, CSc.				

University:	University: P. J. Šafárik University in Košice						
Faculty: Fa	culty of S	cience					
Course ID: UK/17	D: ÚBEV/ Course name: Urbánna ekológia						
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: distance, present							
Number of	ECTS cro	edits: 3					
Recommen	ded seme	ster/trimester	of the cours	e: 2., 4.			
Course leve	el: II., III.						
Prerequisit	ies:						
Conditions	for cours	e completion:					
Learning outcomes:							
Brief outlin	e of the c	ourse:					
Recommen	ded litera	ture:					
Course lan	Course language:						
Notes:							
Course assessment Total number of assessed students: 39							
А	В	С	D	Е	FX	N	Р
84.62	0.0	0.0	0.0	0.0	0.0	0.0	15.38
Provides: doc. RNDr. Marcel Uhrin, PhD., univerzitný profesor							
Date of last modification: 20.09.2021							
Approved: prof. RNDr. Ľubomír Kováč, CSc.							

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ VMESd/17	Course name: Vývinové a molekulárne mechanizmy v evolúcii stavovcov				
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present					
Number of ECTS cr	edits: 5				
Recommended seme	ster/trimester of the course				
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:	Course language:				
Notes:					
Course assessment Total number of assessed students: 3					
	N	Р			
	0.0	100.0			
Provides: doc. RNDr. Martin Kundrát, Ph.D.					
Date of last modification: 19.02.2022					
Approved: prof. RNDr. Ľubomír Kováč, CSc.					

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ USR/23	Course name: Úvod do štatistiky v prostredí R pre biológov		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: distance, present			
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e: 3.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	Brief outline of the course:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
	Ν	Р	
0.0		0.0	
Provides: Mgr. Peter Kaňuch, PhD.			
Date of last modification:			
Approved: prof. RNDr. Ľubomír Kováč, CSc.			