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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 stud Course method: dis	nd the method: ce rse-load (hours): ly period: 15s stance, present					
Number of ECTS cr	edits: 6					
Recommended seme	ster/trimester of the course	:				
Course level: III.						
Prerequisities:						
Conditions for cours oral examination	e completion:					
Learning outcomes: To extend the knowled the dissertation.	edge from the basic subject of	f Animal physiology with respect to the topic of				
 Brief outline of the c 1. Basic principles in 2. The goal and funct: 3. Homeostatic mech physiological adaptat 4. Transport processes 5. Principles of the e nutrients. 6. Adaptation to low 7. Control of movem 8. Mechanisms of sal 	ourse: Animal Physiology. Ioning of the integrating system anisms for maintenance of the tions. The sin the human body. Intergetic metabolism. Anaeron and high environmental tempent - motoric bases of behavious t and water housholding. Ad	ms of the body. Control and regulating processes. ne stability of the inner environment. The aim of obic and aerobic processes in the metabolism of peratures. four. aptations to dry environment.				
Recommended litera Hill, Wyse, Anderson	iture: 1 : Animal Physiology, Sinau	er Assoc., 2008				
Course language: english						
Notes:						
Course assessment Total number of asse	ssed students: 64					
	N	Р				
	0.0	100.0				
Provides: prof. RNDr. Beňadik Šmajda, CSc.						
Date of last modifica	tion: 25.03.2022					

Approved: prof. RNDr. Beňadik Šmajda, CSc.

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ BGEE/11	Course name: Biogeograp	hy				
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: dis	nd the method: re / Practice rse-load (hours): study period: 14 / 28 otance, present					
Number of ECTS cr	edits: 6					
Recommended seme	ster/trimester of the cours	e: 1., 3.				
Course level: III.						
Prerequisities:						
Conditions for cours Oral examination.	e completion:					
Learning outcomes: Broadened contemporegard to its history molecular biology an	orary knowledge of the princ and evolution of global eco d genetics to the study of the	iples of distribution of living biota on Earth with systems. To apply modern methods of ecology, e recent distribution of organisms				
Brief outline of the c The subject concentre impacted the evolution it involves short intro- biogeographic pattern history of lineage and of the discipline.	ourse: rates on environmental and on, distribution and diversity oduction to the discipline, th ns, earth history and fundan d biotas, ecological biogeogr	ecological perspectives to show how they have y of species. Updated to reflect current research, en describes the environmental setting and basic mental biogeographic processes, the evolutionary raphy, conservation biogeography, and the future				
Recommended litera Darlington P.J., 1998 1-690 Lomolino M.V., Brow	iture: : Zoogeography: The geogra wn J.H., Riddle B. R., 2005:	phical distribution of animals. Krieger, USA, p. Biogeography. Sinauer Associates, 1-845				
Course language: English language						
Notes:						
Course assessment Total number of asse	ssed students: 30					
	N	Р				
	0.0	100.0				
Provides: prof. RNDr. Martin Bačkor, DrSc., prof. RNDr. Ľubomír Kováč, CSc.						
Date of last modifica	tion: 10.12.2021					

Approved: prof. RNDr. Beňadik Šmajda, CSc.

Faculty: Faculty of Science Course ID: ÚBEV/ BSP/04 Course name: Biospeleology 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 ID: ÚBEV/ BSP/04Course name: BiospeleologyCourse 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, presentNumber of ECTS credits: 4Recommended semester/trimester of the course: 2., 4.
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.
Number of ECTS credits: 4 Recommended semester/trimester of the course: 2., 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., 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:
Course assessment Total number of assessed students: 76
A B C D E FX N P
96.05 0.0 2.63 1.32 0.0 0.0 0.0 0.0
Provides: prof. RNDr. Ľubomír Kováč, CSc., RNDr. Andrea Parimuchová, PhD.

Approved: prof. RNDr. Beňadik Šmajda, CSc.

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ MET/04	Course name: Cell Metabolism
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: dis	nd the method: re / Practice rse-load (hours): dy period: 28 / 0s tance, 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 bas and human organism	sic knowledge of metabolic processes for homeostasis maintenance in animal
Brief outline of the c Carbohydrates – str derivatives, pathways aspects of carbohydr metabolic roles of th lipid metabolism. Pla metabolism, biochem acid – biological sis Reactive oxygen and pathways of protein metabolism. Nitroge pyrimidines. Water metabolic processes r	ourse: ructure, biological significance of mono-, di-, polysaccharides and its s of carbohydrate synthesis and degradation, glycaemia regulation, clinical ate metabolism. Lipids – categories, metabolism, lipogenesis, lipolysis, the he liver and adipose tissue. Ketogenesis. Regulation of carbohydrate and asma lipoprotein metabolism, hyper- and hypolipoproteinemias. Cholesterol nical and clinical aspects of atherogenesis and atherosclerosis. Arachidonic gnificance, formation and functions of eicosanoids, clinical correlations. I nitrogen species, oxidative metabolism, antioxidative systems. Metabolic degradation and amino acid transformation, special products of amino acid n metabolism, urea biosynthesis. Metabolism of porphyrins, purines and metabolism and its disturbances. Metabolism of solutes. Mechanisms of regulation.
Recommended litera 1. Devlin T.M.: Texth 2. Bhagavan N.V., Ch 3. Newsholme E., Le	ture: book of Biochemistry with Clinical Correlations. Wiley-Liss 2006 hung-Eun Ha: Essentials of Medical Biochemistry. Elsevier 2011 ech T.: Functional Biochemistry in Health and Disease. Wiley-Blackwell

2010

Course language:

Notes:

Course assessment	
N	Р
0.0	100.0
Provides: doc. RNDr. Monika Kassayová, CSc.	
Date of last modification: 16.09.2021	
Approved: prof. RNDr. Beňadik Šmajda, CSc.	

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ CRO1/03	Course name: Chronophysiology
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: dis	nd the method: re / Practice rse-load (hours): study period: 28 / 14 tance, 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 of 4. Genetic basis and r 5. Endogenous charace 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 14. Circaannual (seaso) 15. Endogenous charace 16. Synchronsation of ch 17. Model animals in s 10. Application of ch 11. Disturbations of the 12. Biological rhythm 13. The significance of 10. Statement of the significance of the 11. Disturbation of the significance of the significa	ourse: he physiological variables in animals. story of chronobiology. division of biological rhythms. nolecular mechanisms of the biological rhythms in animals. cter of the biological rhythms. Localization of the biological clock. rhythms. Multioscillatory system of the body. study 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.
Recommended litera	iture:
Course language:	

Notes:

Course ass Total numb	essment per of assesse	d students: 9	5					
А	В	С	D	Е	FX	Ν	Р	
22.11	20.0	27.37	11.58	4.21	0.0	0.0	14.74	
Provides: p	Provides: prof. RNDr. Beňadik Šmajda, CSc., RNDr. Natália Pipová, PhD.							
Date of last modification: 21.09.2021								
Approved:	Approved: prof. RNDr. Beňadik Šmajda, CSc.							

University: P. J. Šafárik University in Košice
Faculty: Faculty of Science
Course ID: ÚBEV/ PFYZ/15Course name: Comparative animal physiology
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 credits: 3
Recommended semester/trimester of the course: 1.
Course level: II., III.
Prerequisities:
Conditions for course completion: Working out the given themes of the report. Passing the final oral examination.
Learning outcomes: The students receive an overview on the significance of physiological adaptational mechanisms to the various life conditions on the individual levels of the phylogenesis.
 Brief outline of the course: 1. Phylogeny of food acquisition, processing and utilization in animals. 2. Energy metabolism (factors influencing the metabolic rate; physiology of physical work; principles of aerobic performance in various species). 3. Thermal housekeeping (poikilothermic and homoiothermic strategies. 4. Life in cool environment). 5. The phylogenic development of the nervous system. 6. Sensory abilities of the animals. 7. Evolution of the brain. Endocrinal and neuroendocrinal regulation of body functions in evertebrates and vertebrates. 8. Reproductive systems of the animals. 9. Navigation in animals. Motoric basics of animal behaviour. 10. The mechanisms of the exchange of respiratory gases in a phylogenetic view. 11. Comparison of circulatory systems in animals. 12. Water- and mineral housekeeping in terrestrial and aquatic animals. 13. Excretory systems of the animals.
Recommended literature:
Course language:

Course asse Total numb	essment per of assesse	d students: 2	1					
А	В	С	D	Е	FX	Ν	Р	
42.86	23.81	0.0	9.52	4.76	0.0	0.0	19.05	
Provides: p	Provides: prof. RNDr. Beňadik Šmajda, CSc.							
Date of last	t modificatio	on: 21.09.202	21					
Approved:	prof. RNDr.	Beňadik Šm	ajda, CSc.					

University:	P. J. Šafári	k University i	n Košice				
Faculty: Fa	culty of Sci	ence					
Course ID: EET1/03	ÚBEV/	Course name:	Ecological	ethology			
Course typ Course typ Recomme Per week: Course mo	e, scope an pe: Lecture nded cours 2 / 2 Per st ethod: dista	d the method / Practice e-load (hours udy period: 2 nce, present	: 5): 28 / 28				
Number of	ECTS cred	lits: 6					
Recommen	ded semest	er/trimester	of the cours	e:			
Course leve	el: II., III.						
Prerequisit	ies:						
Conditions Field excur Oral exami	for course sion nation.	completion:					
Learning o To analyze of view of s	utcomes: and compre sociobiolog	hend to pricip	les of behavi	oral strategie	es in a given e	cosystem fro	om the point
Brief outlin The topic of in animals the ecosyst parental stra	e of the coup of sociobiolo and in mar em. The ch ategy. Comp	urse: ogy and its re n. Strategies of oice of appro- petition amon	lations to oth of social inte priate social g indiviuals a	her disciplineractions and arrangementand sexes.	nes. The evolution of formation of the f	ution of soci of groups in tner, reprodu	al behavior relation to actional and
Recommen	ded literat	ure:					
Course lang	guage:						
Notes:							
Course asso Total numb	essment er of assess	ed students: 2	09				
А	В	C	D	Е	FX	Ν	Р
88.04	3.83	5.26	0.48	0.0	0.0	0.0	2.39
Provides: R	NDr. Igor N	Majláth, PhD.					
Date of last	modificati	on: 16.05.202	21				
Approved:	prof. RNDr	. Beňadik Šm	ajda, CSc.				
L		1					

University	P. J. Šafáril	k University i	n Košice				
Faculty: Fa	culty of Sci	ence					
Course ID : EKC1/00	ÚBEV/	Course name:	: Ecology of	mammals			
Course typ Course ty Recomme Per week: Course m	e, scope and pe: Lecture nded cours 1 / 1 Per st ethod: dista	d the method / Practice e-load (hours udy period: nce, present	:: s): 14 / 14				
Number of	ECTS cred	lits: 3					
Recommen	ded semest	er/trimester	of the cours	e:			
Course lev	el: II., III.						
Prerequisit	ies:						
Conditions	for course	completion:					
To underst ecological ecology of	and a) ekolo networks; b some mamr	bgical positio b) anthropoge nal groups	n ot mamma nic impacts	al groups in on mammal	ecosystems s and their o	and their im coenoses; c)	portance in population
1. Factors Hibernation Habitat and prey. 5. Ma Reproducti Migration. dynamics Gradients. mammals. Global clir population.	of enviro n, aestivatio l nika. Intera ammals and on. Mating Habitat set and cycles. Long-term Wind energ nate change	nment. Tempon, letargy. 2 actions. 4. Konplants. Food systems. Oest lection. Indiv Gradations. studies. 10. sy. Mammal i s and mamm	perature. We Reseources mensalism. Ne webs. 6. Ter trus. r- and Ke vidual. Popu 9. Mamma Habitat frag ntroductions als. Protected	ater. Snow. 5. Food. Foo futualism. K itoriality. Ho C- strategy. N lation. Natal l diversity. gmentations. . Repatriatio d areas. 13.	Light. Ada od strategies ooperation. Come range. L Aonogamy, p lity, mortalit Island bioge Synanthrop ns, reintrodu Vulneralble	aptations. H and special Competion. F ek. Metapop olygamy. 8. cy. Kohorts. eografy. Ma y. 11. Cons ictions. Expa species. Min	lypothermy. listaions. 3. Predator and pulations. 7. Dispersion. Population croecology. ervation of ansions. 12. imal viable
Recomment Feldhamer and Ecolog Vlasák P.,	ded literati G., Drickan y. McGraw 1986. Ekolo	ure: ner L., Vessey Hill Hardbac gie cicavcu. A	SH., Merrit k, 563 pp. Academia, Pr	t JF., 2000. N aha, 292 pp.	/ammalogy:	Adaptation,	Diversity
Course lan	guage:						
Notes:							
Course ass Total numb	essment per of assess	ed students: 2	.58				
А	В	C	D	Е	FX	N	Р
65.12	17.05	11.63	2.33	2.33	0.0	0.0	1.55

Provides: doc. RNDr. Marcel Uhrin, PhD.

Date of last modification: 20.09.2021

Approved: prof. RNDr. Beňadik Šmajda, CSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ Course name: Endocrinology END/04			
Course type, scope a Course type: Lectur Recommended cour Per week: 1 Per stu Course method: dis	nd the method: re / Practice rse-load (hours): dy period: 14 / 0s tance, present		
Number of ECTS cro	edits: 3		
Recommended seme	ster/trimester of the course:		
Course level: III.			
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 studen 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, re 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. Irenal 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. horiples 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: 13				
Ν	Р			
0.0	100.0			
Provides: doc. RNDr. Monika Kassayová, CSc.				
Date of last modification: 23.11.2021				
Approved: prof. RNDr. Beňadik Šmajda, CSc.				

Faculty: Faculty of Science Course ID: ÚBEV/ EFYZ/04 Course name: Environmental physiology EFYZ/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 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. 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 of environmental venobiotics on organisms. 12. Kenobiotics and their metabolism. 13. The effects of of survival. 14. Heneffects of of environmental venobiotics on org	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 weck: 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. Electromagnetic radiation, the significance and effects on living organisms. 12. Xenobioties and their metabolism. 13. The effects of onvironmental xenobiotics on organisms. Recommended literature:	Faculty: Faculty of S	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: 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 Ashcrof F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004 Course language: Notes:	Course ID: ÚBEV/ EFYZ/04	Course name: Environmental physiology				
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 Asheroft F.: Life at the Extremes. University of California Press, 2000	Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: dis	nd the method: ce rse-load (hours): y period: 15s tance, 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. 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: Plantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Asheroft F.: Life at the Extremes. Penguin Books, 2004 Course language: Vates:	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. Recommendel literature: Piantadosi C.A.: The Biology of Human Survival. Oxford University Press, 2003 Asheroff F.: Life at the Extremes. University of California Press, 2000 Kamler K.: Surviving the Extremes. Penguin Books, 2004 Course language: Notes:	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 language: Notes:	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 Kamler K.: Surviving the Extremes. Penguin Books, 2004 Course language: Notes:	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: 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 Kamler K.: Surviving the Extremes. Penguin Books, 2004 Course language: Notes:	Conditions for cours oral exam	e completion:				
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 Kamler K.: Surviving the Extremes. Penguin Books, 2004 Course language: Notes:	Learning outcomes: The aim of this subje 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 Course language:	Brief outline of the c 1. Definition and class 2. Regulation of enery 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. remperature. tric environment. effects. ravity and microgravity. radiation, the significance and effects on living organisms. heir metabolism. vironmental xenobiotics on organisms.				
Course language:	Recommended litera Piantadosi C.A.: The Ashcroft F.: Life at th Kamler K.: Surviving	ture: Biology of Human Survival. Oxford University Press, 2003 the Extremes. University of California Press, 2000 the Extremes. Penguin Books, 2004				
Notes:	Course language:					

Course assessment		
Total number of assessed students: 7		
Ν	Р	
0.0	100.0	
Provides:		
Date of last modification: 14.07.2022		
Approved: prof. RNDr. Beňadik Šmajda, CSc.		

University. D I Čefér	rik University in Košice
E aulter E aulter - CC	
Faculty: Faculty of S	cience
Course ID: UBEV/ EXON/04	Course name: Experimental oncology
Course type, scope a Course type: Lectur Recommended cour Per week: 15 Per st Course method: dis	nd the method: e rse-load (hours): udy period: 210 tance, present
Number of ECTS cro	edits: 5
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours oral exam	e completion:
Learning outcomes: To clarify the general its modulation in exp	mechanisms and principles of neoplastic transformation and possibilities of erimental animals.
 Brief outline of the c 1. Carcinogenesis, ma 2. Oncogens, tumour 3. Cell cycle regulation 4. Types of cell death 5. Tumour microenvit 6. Cancer cell metabor 7. Tumour classification 8. Classification of ca 9. In vitro and in vivo 10. Possibilities of ca 11. Mechanisms of ca 12. Natural and synth 13. Clinical chemopro- 	ourse: blecular basis of carcinogenesis. supressor genes. on. ronment. blism. ion. arcinogens. o models of carcinogenesis. ncer prevention, risk factors. uncer chemoprevention. etic chemopreventive substances. evention trials.
Recommended litera Scientific journal arti Weinberg R.A, The b	ture: cles. iology of cancer. Garland Science, Taylor and Francis Group, LLC, 2007.
Course language:	
Notes:	

Course assessment				
Total number of assessed students: 16				
Ν	Р			
0.0 100.0				
Provides: doc. RNDr. Bianka Bojková, PhD.				
Date of last modification: 14.07.2022				
Approved: prof. RNDr. Beňadik Šmajda, 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.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 38				
N P				
0.0 100.0				
Provides: RNDr. Vlasta Demečková, PhD.				
Date of last modification: 23.11.2021				
Approved: prof. RNI	Dr. Beňadik Šmajda, CSc.			

Faculty: Faculty of Science Course ID: ÚBEV/ NAT/10 Course name: Neuroanatomy Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 2 / 0 Per study period: 28 / 0 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: Course level: III. Prerequisities: Perequisities: Conditions for course completion: 1. compulsory participation on Anatomy lectures, max. 3 absences per semester 2. oral exam during summer exam period. Exam grade depends on the gained knowledge on the structure, functions and spatial organization of individual parts of nervous system. Learning outcomes: After successful completion of the lectures, student understands the particular functions of nervous system in homeostasis, sensory perception, motor functions, as well as in processing of signal at various levels of nervous system. Student understands the particular functions of reurous system in homeostasis, sensory perception, motor functions, as well as in processing of signal at various levels of nervous System (CNS, PNS, autonomous NS, somatic NS), 2. the spinal cord and nervous tracts 3. the brainstem: medulla oblongata, pons, mesencephalon 4. peripheral nervous system, System (CNS, PNS, autonomous NS, somatic NS), 2. the spinal cord and nervous tracts 5. the cerebellum 6. the deincephalon - corebral cortex (paleopalium, archipallium), limbic system 6. the tel	University: P. J. Šafárik University in Košice				
Course ID: ÚBEV/ NAT/10 Course name: Neuroanatomy Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 2 / 0 Per study period: 28 / 0 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: 1. compulsory participation on Anatomy lectures, max. 3 absences per semester 2. oral exam during summer exam period. Exam grade depends on the gained knowledge on the structure, functions and spatial organization of individual parts of nervous system. Learning outcomes: After successful completion of the lectures, student masters the knowledge on anatomy and organization of central and peripheral nervous system. Student understands the particular functions of nervous system in homeostasis, sensory perception, motor functions, as well as in processing of signal at various levels of nervous system. Successful completion of the lectures prepare students for further study of Neurophysiology, Neuropsychology, etc. Brief outline of the course: 1. introduction to neuroanatomy, basic principles of functional neuroanatomy, classification of the nervous system. Spinal and cranial nerves 5. the beninstem: medulla oblongata, pons, mesencephalon 4. peripheral nervous system: spinal and cranial nerves 5. the clencephalon - neocortex: cortical centers 9. the tele	Faculty: Faculty of Science				
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 credits: 3 Recommended semester/trimester of the course: Course level: III. Prerequisities: Concompulsory participation on Anatomy lectures, max. 3 absences per semester 2. oral exam during summer exam period. Exam grade depends on the gained knowledge on the structure, functions and spatial organization of individual parts of nervous system. Learning outcomes: After successful completion of the lectures, student masters the knowledge on anatomy and organization of central and peripheral nervous system. Student understands the particular functions of nervous system in homeostasis, sensory perception, motor functions, as well as in processing of signal at various levels of nervous system. Successful completion of the lectures prepare students for further study of Neurophysiology, Neuropsychology, etc. Brief outline of the course: 1. introduction to neuroanatomy, basic principles of functional neuroanatomy, classification of the nervous system (CNS, PNS, autonomous NS, somatic NS), 2. the spinal cord and nervous tracts 3. the brainstem: medulla oblongata, pons, mesencephalon 4. peripheral nervous system: spinal and cranial nerves 5. the cerebellum 6. the diencephalon - necortex: cortical centers </td <td>Course ID: ÚBEV/ NAT/10</td> <th>Course name: Neuroanatomy</th>	Course ID: ÚBEV/ NAT/10	Course name: Neuroanatomy			
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Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: 1. compulsory participation on Anatomy lectures, max. 3 absences per semester 2. oral exam during summer exam period. Exam grade depends on the gained knowledge on the structure, functions and spatial organization of individual parts of nervous system. Learning outcomes: After successful completion of the lectures, student masters the knowledge on anatomy and organization of central and peripheral nervous system. Student understands the particular functions of nervous system in homeostasis, sensory perception, motor functions, as well as in processing of signal at various levels of nervous system. Successful completion of the lectures prepare students for further study of Neurophysiology, Neuropsychology, etc. Brief outline of the course: 1. introduction to neuroanatomy, basic principles of functional neuroanatomy, classification of the nervous system, dividing of the Nervous System (CNS, PNS, autonomous NS, somatic NS), 2. the spinal cord and nervous tracts 3. the brainstem: medulla oblongata, pons, mesencephalon 4. peripheral nervous system: spinal and cranial nerves 5. the cerbellum 6. the diencephalon - cerebral cortex (paleopallium, archipallium), limbic system 8. the telencephalon - neocortex: cortical centers 9. the telencephalon - neocortex: cortical centers 9. the telencephalon - necocrtex: cortical centers	Number of ECTS cr	edits: 3			
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 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: cortical centers 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 sensory organs Recommended literature: Lovásová, K., Kluchová, D., Boleková, A.:Neuroanatómia pre psychológov, Košice, Equilibria, UPJŠ 2015 	After successful cor organization of centra of nervous system in signal at various leve for further study of N	npletion 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 leurophysiology, Neuropsychology, etc.			
Recommended literature: Lovásová, K., Kluchová, D., Boleková, A.:Neuroanatómia pre psychológov, Košice, Equilibria, UPJŠ 2015 Miklošová M.: Apatómia, Košica, Equilibria, UPJŠ 2011	Brief outline of the c 1. introduction to neu nervous system, divid 2. the spinal cord and 3. the brainstem: med 4. peripheral nervous 5. the cerebellum 6. the diencephalon - 7. the telencephalon - 8. the telencephalon - 9. the telencephalon - 10. the telencephalon 11. ventricular system 12. autonomic nervou 13. sensory organs	ourse: Iroanatomy, basic principles of functional neuroanatomy, classification of the ling of the Nervous System (CNS, PNS, autonomous NS, somatic NS), I nervous tracts fulla oblongata, pons, mesencephalon system: spinal and cranial nerves topography, organization, basal ganglia - cerebral cortex (paleopalium, archipallium), limbic system - neocortex: cortical centers - neocortex: associative cortex h, cerebral cortex (paleopallium, archipallium, neopallium) and basal ganglia n of the brain, meninges and blood supply, us system: symphatetic and parasymphathetic			
I WERE DROVA DO A DADADOURA NORCE ECONOCIA CELNATORIA (11)	Recommended litera Lovásová, K., Kluch UPJŠ 2015 Miklošová M : Apotá	nture: ová, D., Boleková, A.:Neuroanatómia pre psychológov, Košice, Equilibria,			

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 ass Total numb	Course assessment Total number of assessed students: 32							
A	В	C	C D E FX N P					
18.75	9.38	6.25	0.0	0.0	3.13	0.0	62.5	
Provides: d	Provides: doc. RNDr. Juraj Ševc, PhD.							
Date of last modification: 07.09.2021								
Approved: prof. RNDr. Beňadik Šmajda, CSc.								

Faculty: Faculty of Science 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: Conditions for course completion: Oral examination. Caramination. Learning outcomes: This subject is aimed to provide knowledge on the correlation between processes in Brief outline of the course: Neuronal mechanisms of learning and memory. 2. Neurochemistry of emotions. S. 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. Neurobiology of sleep. 9. Neuaral control of sexual behaviour. Neurobiology of sleep. 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 mental disorders. 13. Genetic bases of behaviour. Neurobiology of sleep. 9. Neuaral control of	University: P. J. Šafá	rik University in Košice				
Course ID: ÚBEV/ NEU/04 Course name: Neuronal basis of behavior. Course type, scope and the method: 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. 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. Neuroehemistry 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 AssocSunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,2007. Course language: Notes:	Faculty: Faculty of S	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. 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. 13. Genetic bases of behaviour. 14. Neuromal control of Sexual behaviour. 15. Biological behaviour. 16. 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. 14. Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. 7. 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:	Course ID: ÚBEV/ NEU/04	Course ID: ÚBEV/ Course name: Neuronal basis of behavior. NEU/04				
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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: Notes:	Recommended seme	ster/trimester of the course:				
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Course language: Notes:	Recommended litera A.Wickens: Foundati T.J.Carew: Behaviora R.P.Kesner, J.L.Mart Amsterdam,,2007.	nture: ons of Biopsychology. Pearson/Prentice Hall, Harlow,London,,2005. al Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. inez: Neurobiology of learning and memory. Academic Press,Elsevier,				
Notes:	Course language:					
	Notes:					

Course assessment				
Total number of assessed students: 18				
Ν	Р			
0.0 100.0				
Provides: prof. RNDr. Beňadik Šmajda, CSc.				
Date of last modification: 21.10.2021				
Approved: prof. RNDr. Beňadik Šmajda, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ PAR2/03Course name: Parasitology II				
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: 3				
Recommended semester/trimester of the course: 2.				
Course level: II., III.				
Prerequisities:				
Conditions for course completion: active participation in practical exercises presentation of seminar work continuous written examinations oral examination				
Learning outcomes: After completing the course Parasitology II. students will demonstrate - knowledge of diagnostic methods commonly used in parasitology - practical use of methods commonly used in parasitology - evaluate the method of detection and identification on the basis of knowledge of parasite life cycles				
Brief outline of the course: The course builds on the knowledge acquired in the Parasitology I. course, expands them and includes vectors transmitted organisms. It focuses on mastering the methods used in parasitology. Syllabus: Week 1: Parasitic adaptations Week 2: Parasite-host interactions Week 3: Behavioral strategies of parasites Week 4: Effect of the parasite on host behavior Week 5: Vector-borne viruses Week 6: Vector-borne parasites Week 8: Laboratory diagnostic methods Week 9: Flotation and serological methods Week 10: Molecular detection and identification Week 11: Methods of capturing vertebrates for parasitological purposes Week 12: Parasitological autopsy				
Recommended literature: 1. Roberts, Janovy Jr. Nadler, Foundations of Parasitology, 9th edition, 2012 McGraw-Hill Education, 701pp.				

2. Loker, Parasitology: A Conceptual Approach, 2015, Garland Science, 560 pp.

2. Loker, Parasitology: A Conceptual Approach, 2015, Garland Science, 560 pp.							
Course language: slovak, english							
Notes:							
Course assessment Total number of assessed students: 63							
А	В	C	D	E	FX	Ν	Р
76.19	9.52	6.35	1.59	1.59	1.59	0.0	3.17
Provides: RNDr. Viktória Majláthová, PhD., RNDr. Mikuláš Oros, PhD.							
Date of last modification: 17.09.2021							
Approved: prof. RNDr. Beňadik Šmajda, CSc.							

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Faculty of Science Course ID: ÚBEV/ VKH1/03 Course name: Selected topics in herpetology					
Course ID: ÚBEV/ Course name: Selected topics in herpetology VKH1/03 VKH1/03					
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 credits: 4					
Recommended semester/trimester of the course:					
Course level: II., III.					
Prerequisities:					
Conditions for course completion: Field excursion Oral examination.					
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. Adaptaions 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 language:					
Notes:					
Course assessment Total number of assessed students: 155					
A B C D E FX N P					
90.97 4.52 2.58 0.0 0.0 0.0 0.0 1.94					
Provides: RNDr. Igor Majláth, PhD., RNDr. Natália Pipová, PhD.					

Approved: prof. RNDr. Beňadik Šmajda, CSc.

University:	University: P. J. Šafárik University in Košice						
Faculty: Fa	Faculty: Faculty of Science						
Course ID: UK/17	se ID: ÚBEV/ Course name: Urbánna ekológia 7						
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 credits: 3							
Recommended semester/trimester of the course: 2., 4.							
Course level: II., III.							
Prerequisities:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Notes:							
Course assessment Total number of assessed students: 27							
А	В	C	D	Е	FX	N	Р
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Provides: doc. RNDr. Marcel Uhrin, PhD.							
Date of last modification: 20.09.2021							
Approved: prof. RNDr. Beňadik Šmajda, CSc.							

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ VMESd/17	Course name: Vývinové a molekulárne mechanizmy v evolúcii stavovcov				
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 credits: 5					
Recommended semester/trimester of the course:					
Course level: III.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 2					
	N	Р			
	0.0	100.0			
Provides: doc. RNDr. Martin Kundrát, Ph.D.					
Date of last modification: 19.02.2022					
Approved: prof. RNDr. Beňadik Šmajda, CSc.					