# CONTENT

1. Ancient Philosophy and Present Times	3
2. Animal and human ecophysiology	4
3. Biology of Plant Symbioses	5
4. Botany and Plant Physiology	6
5. Chapters from History of Philosophy of 19th and 20th Centuries (General Introduction)	7
6. Chronophysiology	8
7. Communication and Cooperation	9
8. Cytogenetics and Karyology	10
9. Dendrology	12
10. Diploma Thesis Seminar	
11. Diploma Thesis Seminar	14
12. Diploma Thesis Seminar	15
13. Diploma Thesis Seminar	16
14. Diploma Thesis and its Defence	17
15. Ethology	18
16. Evolutionary Biology	19
17. Flora of Slovakia	20
18. Functional genomics	21
19. Geobotany	23
20. Geographical Information Systems and Remote Sensing	24
21. Healing Plants	25
22. History of Philosophy 2 (General Introduction)	26
23. Idea Humanitas 2 (General Introduction)	27
24. Immunology	
25. Introduction to Gene Manipulations	30
26. Lichen Biology	31
27. Mineral Nutrition	32
28. Physiology of Plant Growth and Development	33
29. Phytogeography	
30. Plant Biotechnology	
31. Plant Ecology	
32. Plant Embryology	38
33. Plant Metabolism	39
34. Plant Protection	40
35. Plant Taxonomy	41
36. Plant stress physiology	43
37. Psychology and Health Psychology (Master's Study)	44
38. Seaside Aerobic Exercise.	
39. Seminar from Plant Physiology	
40. Social-Psychological Training of Coping with Critical Life Situations	
41. Sports Activities I	
42. Sports Activities II	
43. Sports Activities III.	
44. Sports Activities IV	
45. Student Scientific Conference	
46. Summer Course-Rafting of TISA River	
47. Survival Course	
48. The Art of Aiding by Verbal Exchange	

49. Zoogeography	6	62
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University: P. J. Ša	ıfárik Univers	ity in Košice					
Faculty: Faculty of	f Science						
<b>Course ID:</b> KF/ AFS/05	F/ Course name: Ancient Philosophy and Present Times						
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	ctice ourse-load (h study period:	ours):					
Number of ECTS	credits: 2						
Recommended ser	nester/trimes	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for cou	ırse completi	on:					
Learning outcome	s:						
Brief outline of the	e course:						
Recommended lite	erature:						
Course language:							
Notes:							
<b>Course assessment</b> Total number of as		ts: 31					
A	В	С	D	Е	FX		
80.65	6.45	6.45	0.0	6.45	0.0		
Provides: Doc. PhI	Dr. Peter Nezi	ník, CSc.		·			
Date of last modifi	ication: 17.09	0.2020					
Approved:				-			

	CC	OURSE INFORM	AATION LETT	ER	
University: P. J. Šafá	rik Univers	sity in Košice			
Faculty: Faculty of S	cience				
<b>Course ID:</b> ÚBEV/ EFZ1/03	Course n	ame: Animal and	human ecophys	iology	
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practico rse-load (h study peri	e iours):			
Number of ECTS cr	edits: 6				
Recommended seme	ster/trime	ster of the cours	e:		
Course level: II.					
Prerequisities:					
<b>Conditions for cours</b> Seminar. Test.	e complet	ion:			
Learning outcomes: The aim of lectures is and extreme environ	-		nowledge of ada	ptations to enviro	nmental factors
Brief outline of the c Environmental facto - general adaptation pain, inflammation, fasting, starvation, ov to hypobaria and hypo Biotransformation. X tumor supressor generation	rs, reaction syndrom. apoptosis, verfeeding. erbaria. Ad enobiotics s. Cancer J	Physiology and necrosis. Aging Thermoregulatio aptations to hyper in air, water and	pathology of a Regulation of n. Hibernation, or rgravity and mice soil. Drugs of ab	adaptation mecha <sup>5</sup> food intake. For estivation, diapau rogravity. Electron	anisms - fever, ood adapations, se. Adaptations magnetic fields.
<ol> <li>Wilmer P and co.:</li> <li>Chown SL, Nicols</li> </ol>	Environme	, .,		•	
Course language:					
Notes:					
<b>Course assessment</b> Total number of asses	ssed studer	nts: 422			
A	В	C	D	Е	FX
13.51	22.75	23.22	22.99	16.35	1.18
Provides: doc. RNDr	. Bianka B	ojková, PhD.		•	
Date of last modifica	tion: 03.0	5.2015			
Approved:					

University	P. J. Šafáril	k University i	n Košice					
Faculty: Faculty:	aculty of Sci	ence						
Course ID: ÚBEV/ Course name: Biology of Plant Symbioses BRS1/03								
Course ty Recomme Per weeks	pe: Lecture ended cours	<b>d the method</b> e-load (hours y period: 28 ent						
Number of	ECTS cred	lits: 3						
Recommen	ided semest	er/trimester	of the cours	e:				
Course lev	el: II., III.							
Prerequisi	ties:							
Conditions	for course	completion:						
Learning of Introduction		and ecology	of plant sym	ibioses.				
Morpholog plant symb	ioses. Liche	gical, physiolo	a, symbiosis		spects of the g plants with		-	
Van den H		<b>ire:</b> . 1995: Algae odern Mycolo		ction to phyc	cology,			
Course lan	guage:							
Notes:								
Course ass Total numb		ed students: 3	96					
А	В	C	D	Е	FX	Ν	Р	
96.21	0.0	0.0	0.0	0.0	0.0	0.0	3.79	
<b>Provides: p</b>	orof. RNDr. 1	- Martin Bačko	r, DrSc.		•			
	t madifiaati	on: 03.05.201	15					
Date of las	t mounicau	<b>on.</b> 05.05.20						

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚBEV/ Course name: Botany and Plant Physiology BFR/14							
Per week: Per Course metho	l course-load (h • study period: d: present						
Number of EC							
Recommended	,	ter of the cours	e:	_			
Course level: II							
Prerequisities:							
Conditions for	course completi	on:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Notes:							
Course assessm Total number of	ent fassessed studen	ts: 21					
А	В	С	D	Е	FX		
42.86	19.05	28.57	4.76	4.76	0.0		
Provides:				·			
Date of last mo	dification: 03.05	.2015					
Approved:	-			-			

University: P. J. Ša	afárik Univers	ity in Košice						
Faculty: Faculty o	f Science							
Course ID: KF/ KDF/05								
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (h study period:	ours):						
Number of ECTS	credits: 2							
Recommended set	mester/trimes	ster of the cours	e: 2.					
Course level: II.								
Prerequisities:								
Conditions for co	urse completi	on:						
Learning outcome	es:							
Brief outline of th	e course:							
Recommended lit	erature:							
Course language:								
Notes:								
<b>Course assessmen</b> Total number of as		ts: 10						
А	В	С	D	Е	FX			
50.0	20.0	10.0	0.0	10.0	10.0			
Provides: doc. PhI	Dr. Pavol Thol	t, PhD., mim. pro	of.					
Date of last modif	ication: 03.05	5.2015						
Approved:								

Fooultry F-		ik University i	1100100					
racuity: Fa	culty of Sc	eience						
<b>Course ID:</b> CRO1/03	D: ÚBEV/ Course name: Chronophysiology							
Course ty Recomme	pe: Lecture nded cour 2 / 1 Per s	se-load (hour study period:	s):					
Number of	ECTS cre	dits: 5						
Recommen	ded semes	ter/trimester	of the cours	e:				
Course leve	el: II., III.							
Prerequisit	ies:							
<b>Conditions</b> Oral exami		e completion:						
Learning o To outline t in evolution	the problem	natics of the ti organisms	me organisat	ion of biolog	gical process	es and their	significance	
biological r genetic bas of biologica	ture of phy rhythms. T is and mole al rhythms.	ourse: ysiological var he significance ccular mechani . The multiosc for the anima	e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. The s	on of living he endogeno significance	things. The us character of circadian	
Time struct biological r genetic bas of biologica and season	ture of phy rhythms. T is and mole al rhythms. al rhthms	vsiological van he significance cular mechani . The multiosc for the anima	e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. The s	on of living he endogeno significance	things. The us character of circadian	
Time struct biological r genetic bas of biologica and season principles.	ture of phy rhythms. T is and mole al rhythms. al rhthms <b>ded litera</b>	vsiological van he significance cular mechani . The multiosc for the anima	e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. The s	on of living he endogeno significance	things. The us character of circadian	
Time struct biological r genetic bas of biologica and season principles. Recommen Course lan	ture of phy rhythms. T is and mole al rhythms. al rhthms <b>ded litera</b>	vsiological van he significance cular mechani . The multiosc for the anima	e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. The s	on of living he endogeno significance	things. The us character of circadian	
Time struct biological r genetic bas of biologica and season principles. Recommen Course lan Notes: Course asse	ture of phy rhythms. T is and mole al rhythms. al rhthms ded literat guage: essment	vsiological van he significance cular mechani . The multiosc for the anima	e of biologic sms of biolog illatory syste al and huma	al rhythms in gical clocks i m of the org	n the evoluti n animals. The s	on of living he endogeno significance	things. The us character of circadian	
Time struct biological r genetic bas of biologica and season principles. Recommen Course lan Notes: Course asse	ture of phy rhythms. T is and mole al rhythms. al rhthms ded literat guage: essment	ysiological var he significance cular mechani . The multiosc for the anima ture:	e of biologic sms of biolog illatory syste al and huma	al rhythms in gical clocks i m of the org	n the evoluti n animals. The s	on of living he endogeno significance	things. The us character of circadian	
Time struct biological in genetic bas of biological and season principles. Recommen Course lan Notes: Course asse Total numb	ture of phy rhythms. T is and mole al rhythms. al rhthms ded literat guage: essment ber of asses	vsiological var he significance cular mechani . The multiosc for the anima ture: sed students: 8	e of biologic sms of biolog illatory syste al and huma	al rhythms in gical clocks i m of the org n life. The	n the evoluti n animals. The s application o	on of living he endogeno significance of chrono-pl	things. The us character of circadian hysiological	
Time struct biological in genetic bas of biological and season principles. <b>Recomment</b> <b>Course lan</b> <b>Notes:</b> <b>Course asse</b> Total numb A 21.35	ture of phy rhythms. T is and mole al rhythms. al rhthms ad rhthms ded literat guage: essment per of asses B 21.35	ysiological var he significance cular mechani . The multiosc for the anima ture: sed students: 8	e of biologic sms of biolog illatory syste al and huma 39 D 12.36	al rhythms in gical clocks i m of the org n life. The <u>E</u> 4.49	n the evoluti n animals. The anism. The s application of FX 0.0	on of living he endogeno significance of chrono-pl	things. The us character of circadian hysiological	
Time struct biological in genetic bas of biological and season principles. <b>Recomment</b> <b>Course lang</b> <b>Notes:</b> <b>Course asse</b> Total numb A 21.35 <b>Provides:</b> p	ture of phy rhythms. T is and mole al rhythms. al rhythms ad rhthms ded literat guage: essment ber of asses B 21.35 prof. RNDr.	ysiological var he significance cular mechani . The multiosc for the anima ture: sed students: 8 C 29.21	e of biologic sms of biolog illatory syste al and huma 39 D 12.36 jda, CSc., RI	al rhythms in gical clocks i m of the org n life. The <u>E</u> 4.49	n the evoluti n animals. The anism. The s application of FX 0.0	on of living he endogeno significance of chrono-pl	things. The us character of circadian hysiological	

University: P. J. Ša	fárik Univers	ity in Košice				
Faculty: Faculty of	Science					
Course ID: KPPaPZ/KK/07 Course name: Communication and Cooperation						
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	etice ourse-load (ho tudy period:	ours):				
Number of ECTS	credits: 2					
Recommended sen	nester/trimes	ter of the course: 3.				
Course level: II.						
Prerequisities:						
Conditions for cou	rse completi	on:				
Learning outcome	s:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
<b>Course assessment</b> Total number of as		ts: 281				
abs		n	Z			
98.22		1.78	0.0			
Provides: Mgr. One	drej Kalina, P	hD., Mgr. Lucia Barbierik, PhD.	•			
Date of last modifi	cation: 16.02	.2021				
Approved:						

		COUR	SE INFURI	MATION LI			
University:	P. J. Šafáril	c University i	n Košice				
Faculty: Fa	culty of Sci	ence					
<b>Course ID:</b> CK1/03	ÚBEV/ C	Course name	: Cytogeneti	cs and Karyo	logy		
Course ty Recomme Per week:	pe: Lecture nded cours	e-load (hour udy period:	s):				
Number of	ECTS cred	lits: 4					
Recommen	ded semest	er/trimester	of the cours	e:			
Course leve	el: II., III.						
Prerequisit	ies:						
Practicals:	ethod of edu	ls and worksł			case of the produced the produced case of the produ		
findings of	wledge and cytogenetic	-	culoar cytolo		cell level usi acquainted in	-	
Organisatic structure ar Polythene cell differen	nd changes of chromosomo ntiation. Ap	otic genome of chromatin es. Cell cycl	. Levels of D e. Genetic r meres and fu	DNA organisa egulation of unction of tel	eolus, nucleo ation in cell 1 a cell cycle lomerase. Mo arn from it?	nucleus. Chi . Genetic re	romosomes. egulation of
	1992	<b>ıre:</b> Fhird Edition	, Harper Col	lins Publishe	r,		
Course lan	guage:						
Notes:							
Course asso Total numb		ed students: 1	389				
A	B	C	D	E	FX	N	Р
			<u></u>	1	I		1
24.55	15.05	15.84	14.04	17.93	11.74	0.0	0.86

Date of last modification: 20.02.2021

Approved:

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚBEV/ Course name: Dendrology DNR/06							
Recommended	Lecture / Practice l course-load (h 2 Per study perio	e ours):					
Number of ECT	<b>FS credits:</b> 5						
Recommended	semester/trimes	ster of the cours	se:				
Course level: II.							
Prerequisities:							
Conditions for a	course completi	on:					
Learning outco	mes:						
distribution. Intr Selected chapter Application of v urban environmo occurrence, mea expansion and in	signs of woody p raspecific variab rs from seed pro- woody plants in g ent. Protected ar asures of protection nvasion of wood	blants, ecological ility, growth form duction and tree garden and lands and memorial tree ion and treating.	l requirements, g ns and their use. nursery of wood cape architecture	eographic ly plants. e in			
Recommended							
Course languag	je:						
Notes: Course assessm Total number of	ent fassessed studen	ıts: 63					
А	В	С	D	Е	FX		
66.67	15.87	7.94	9.52	0.0	0.0		
00.07		,	9.02	0.0	0.0		
			9.02		0.0		
Provides: Ing. P Date of last mod	eter Kelbel, Dr.				0.0		

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience		-			
Course ID: ÚBEV/ Course name: Diploma Thesis Seminar SDPa/15						
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:					
Number of ECTS cr	edits: 4					
Recommended seme	ster/trimester of the cour	se: 1.	_			
Course level: II.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	ature:					
Course language:						
Notes:						
<b>Course assessment</b> Total number of asse	ssed students: 201					
	abs	n				
	100.0	0.0				
Provides:		-				
Date of last modifica	ntion: 03.05.2015		-			
Approved:			_			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> ÚBEV/ SDPb/15	Course name: Diploma	Thesis Seminar	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cou	rse: 2.	
Course level: II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Notes:	· · · ·		
<b>Course assessment</b> Total number of asse	ssed students: 146		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ntion: 03.05.2015		
Approved:	<u></u>		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
<b>Course ID:</b> ÚBEV/ SDPc/15	Course name: Diploma Th	nesis Seminar	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cours	e: 3.	
Course level: II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	ature:		
Course language:			
Notes:			
<b>Course assessment</b> Total number of asse	ssed students: 166		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Ša	fárik Universi	ty in Košice			
Faculty: Faculty of	Science				
<b>Course ID:</b> ÚBEV/ SDPd/15	Course na	<b>me:</b> Diploma Tl	nesis Seminar		
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (ho 1dy period:				
Number of ECTS	credits: 4				
Recommended sen	nester/trimes	ter of the cours	<b>e:</b> 4.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcome	S:				
Brief outline of the	course:				
<b>Recommended</b> lite	rature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of ass		s: 137			
A	В	С	D	Е	FX
87.59	7.3	2.92	0.73	1.46	0.0
Provides:	•				
Date of last modifi	cation: 03.05	.2015			
Approved:					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
<b>Course ID:</b> ÚBE DPO/14	EV/ Course na	me: Diploma Tl	nesis and its Def	ence	
Course type, sco Course type: Recommended Per week: Per Course method	course-load (he study period:				
Number of ECT	S credits: 20				
Recommended s	semester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	o <b>n:</b>			
Learning outcor	nes:				
Brief outline of	the course:				
Recommended I	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 176			
A	В	С	D	E	FX
56.82	26.7	10.8	3.41	2.27	0.0
Provides:					
Date of last mod	lification: 03.05	.2015			
Approved:					

ETO1/03 Course type, scope and the me Course type: Lecture / Practice Recommended course-load (h Per week: 2 / 2 Per study per Course method: present Number of ECTS credits: 6 Recommended semester/trime	e 1ours):			
ETO1/03 Course type, scope and the me Course type: Lecture / Practice Recommended course-load (h Per week: 2 / 2 Per study per Course method: present Number of ECTS credits: 6 Recommended semester/trime	ethod: e 1ours):			
Course type: Lecture / Practice Recommended course-load (H Per week: 2 / 2 Per study per Course method: present Number of ECTS credits: 6 Recommended semester/trime	e 1ours):			
Recommended semester/trime				
	ester of the cours	e:		
Course level: II.				
Prerequisities:				
<b>Conditions for course complet</b> Recognition. Written examination.	ion:			
<b>Learning outcomes:</b> To teach the students to know biological sciences	and to be aware	of the importan	nce of the behav	ioural aspect in
<b>Brief outline of the course:</b> History and development of eth simplest forms of learning – c Social behaviour. Sexual behav animal migrations. Communicat behaviour. Abnormal forms of b	conditioning and iour. Play behavio tion systems of an	instrumental lea our. Biological r	rning. Higher fo hythms. Orientati	rm of learning.
Recommended literature: Franck, D.: Verhaltensbiologie. Manning, A., Dawkins, M. S.: A 1992	•	•	•	
Course language:				
Notes:				
<b>Course assessment</b> Total number of assessed studer	nts: 999			
A B	C	D	E	FX
40.54 24.72	24.72	8.21	1.7	0.1
Provides: RNDr. Igor Majláth, 1	PhD., RNDr. Natá	llia Pipová, PhD	., RNDr. Terézia	Kisková, PhD.
Date of last modification: 03.0	5.2015			
Approved:				

		ity in Košice			
Faculty: Faculty	of Science				
<b>Course ID:</b> ÚBI EB1/99	EV/ Course na	ame: Evolutiona	ry Biology		
	Lecture l course-load (h er study period:	ours):			
Number of ECT	<b>FS credits:</b> 3				
Recommended	semester/trimes	ster of the cours	se: 3.		
Course level: II					
Prerequisities:					
Conditions for of written test	course completi	on:			
	he fundamentals			vidence supportin	
classification. C of onthogeny. I Primary and sec	Concept of specie Phylogeny of an ondary speciatio	es. Macroevoluti aimals. Evolution of plants. Repr	ion. Evolution of nary progress. A	evolution. Adapta functions and or anthropogenesis. n mechanisms. Hy ts.	gans, evolution Plant diversity.
<b>Recommended</b> Futuyama D.J.	literature:			-	
				erland, 3rd ed., 19	97.
	Evolutionary bi et al.: Evolution.			erland, 3rd ed., 19	97.
Dobzhansky T.	Evolutionary bi et al.: Evolution.			erland, 3rd ed., 19	97.
Dobzhansky T. Course languag Notes: Course assessm	Evolutionary bi et al.: Evolution. ge:	San Francisco		erland, 3rd ed., 19	97.
Dobzhansky T. Course languag Notes: Course assessm	Evolutionary bi et al.: Evolution. ge: ent	San Francisco		E	997. FX
Dobzhansky T. Course languag Notes: Course assessm Total number of	Evolutionary bi et al.: Evolution. ge: ent f assessed studen	San Francisco 1 ts: 589	1977.		
Dobzhansky T. Course languag Notes: Course assessm Total number of A 12.56	Evolutionary bi et al.: Evolution. ge: ent Fassessed studen B 23.6 RNDr. Pavol Má	San Francisco 1 ts: 589 C 24.28	D 24.45	E	FX 1.7
Dobzhansky T. Course languag Notes: Course assessm Total number of A 12.56 Provides: prof. 1	Evolutionary bi et al.: Evolution. ge: ent fassessed studen B 23.6 RNDr. Pavol Má	San Francisco 1 ts: 589 C 24.28 rtonfi, PhD., pro	D 24.45	E 13.41	FX 1.7

University: P. J. Šat	ärik Univers	ity in Košice			
Faculty: Faculty of	Science				
<b>Course ID:</b> ÚBEV/ FLS/19	Course na	ame: Flora of Slo	vakia		
Course type, scope Course type: Lect Recommended co Per week: 1 / 1 Pe Course method: p	ure / Practice urse-load (h r study peri	e ours):			
Number of ECTS of	redits: 3				
Recommended sem	ester/trimes	ster of the cours	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended lite	rature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of ass	essed studen	ts: 5			
A	В	С	D	Е	FX
20.0	60.0	20.0	0.0	0.0	0.0
Provides: RNDr. M	atej Dudáš, I	PhD., prof. RND	. Pavol Mártoní	i, PhD.	1
Date of last modifie	cation: 21.02	2.2019			
Approved:					

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚBEV/ FG/14	Course name: Functional genomics
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cro	edits: 5
Recommended seme	ster/trimester of the course: 2.
Course level: II., III.	
Prerequisities:	
<b>Conditions for cours</b> Practical courses prot	•
genes, RNA transcrip genome-wide approace a more traditional "ge	attempts to answer questions about the function of DNA at the levels of ots, and proteins. A key characteristic of functional genomics studies is their ch to these questions, generally involving high-throughput methods rather than ene-by-gene" approach. The outcome of this course will be understanding of nethods used in functional genomics and their application in research as well
genome analysis, A re • Genome and function input of genome seque • Genome-wide reverse use in functional genome • Transcriptomics: met differential expression • Proteomics: methon analysis, data mining • Metabolomics: methon data analysis, data mining * Interactomics - pro	actional genomics, Biological databases and other resources for functional eal-case applications of the functional genomics onal genomics: sequenced model organisms, conceptual and methodological tencing, structural vs. functional genome annotation se genetics: techniques to create collections of genome-wide mutants and their omics ethods to obtain transcriptome data, in silico processing of transcriptomic data, n eds to obtain proteome data, quantitative vs. qualitative proteomics, data hods to obtain metabolomic data, quantitative vs. qualitative metabolomics,
<b>Recommended litera</b> J. Pevsner: Bioinform Internet sources	ture: natics and Functional Genomics, 3rd Edition, ISBN: 978-1-118-58178-0
<b>Course language:</b> English	

Notes:							
Course ass Total numb	essment er of assesse	d students: 1	12				
А	В	С	D	Е	FX	Ν	Р
24.11	30.36	23.21	6.25	11.61	1.79	0.0	2.68
	RNDr. Katarí hD., RNDr. 1		· · ·		,	· ·	Katarína
Date of last	t modificatio	on: 17.02.202	21				
Approved:							

University: P. J. Šafa	árik Univers	ity in Košice			
Faculty: Faculty of S	Science				
<b>Course ID:</b> ÚBEV/ GB1/03	Course na	me: Geobotany			
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (h study peri	ours):			
Number of ECTS c	redits: 4				
Recommended sem	ester/trimes	ster of the course	2:		
Course level: II.					
Prerequisities:					
Conditions for cour	se completi	on:			
Learning outcomes:					
Brief outline of the	course:				
<b>Recommended</b> liter	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	essed studen	ts: 53			
A	В	С	D	Е	FX
47.17	22.64	16.98	7.55	5.66	0.0
Provides: Ing. Richa	rd Hrivnák,	PhD.			
Date of last modific	ation: 21.02	2.2019			
Approved:					

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
<b>Course ID:</b> ÚGE/ GDPZ/18	Course na	me: Geographic	al Information S	systems and Rem	ote Sensing
Course type, scope Course type: Lec Recommended co Per week: 2 / 2 Po Course method: 1	ture / Practice ourse-load (h er study perio	ours):			
Number of ECTS	credits: 4				
Recommended ser	nester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cou	ırse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
<b>Course assessmen</b> Total number of as	-	ts: 0			
А	В	С	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides: doc. Mg	r. Michal Gall	ay, PhD., doc. R	NDr. Ján Kaňuk	, PhD.	
Date of last modifi	cation: 21.02	2.2018			
Approved:					

Faculty: Faculty	of Science				
<b>Course ID:</b> ÚBE LR1/03	EV/ Course na	ame: Healing Pl	ants		
Course type, sco Course type: L Recommended Per week: 2 Pe Course method	ecture l course-load (h er study period:	iours):			
Number of ECT	<b>S credits:</b> 3				
Recommended s	semester/trime	ster of the cour	se:		
Course level: I.,	II.				
Prerequisities:					
Conditions for c	course complet	ion:			
Loonning outoos	mos				
Brief outline of	tudents with hea		of plants and proc	luction of drug.	of drug. Activ
To provide the s Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F	tudents with hea the course: ts, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv	collection. basic s, Flavonoids, H n and and post- tives of medicina aceae, Ericacea	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco		Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae
To provide the s Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F	tudents with hea the course: ts, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveraces eae, Plantaginace	Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae
To provide the s Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended	tudents with hea the course: as, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveraces eae, Plantaginace	Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae
To provide the s Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended I Pahlow M.: Hea	tudents with hea the course: as, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveraces eae, Plantaginace	Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae
To provide the s Brief outline of To Medicinal Plant substances Alcal of medicinal pla Overview of selec Hypericaceae, F Caprifoliaceae, A Recommended I Pahlow M.: Hea Course languag	tudents with hea the course: as, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New e: ent	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera v York 1993	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveraces eae, Plantaginace	Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae
To provide the s Brief outline of a Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended I Pahlow M.: Hea Course languag Notes: Course assessme	tudents with hea the course: as, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New e: ent	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera v York 1993	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco	nd their effects s, Essential oils. C gy of Medicinal nilies Papaveraces eae, Plantaginace	Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae
To provide the s Brief outline of a Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended I Pahlow M.: Hea Course languag Notes: Course assessme Total number of	tudents with hea the course: as, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New e: ent `assessed studer	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericacea ianaceae, Astera v York 1993	e terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco ceae, Equisetacea	nd their effects s, Essential oils. ( gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae.	Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants.
To provide the s Brief outline of a Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended I Pahlow M.: Hea Course languag Notes: Course assessme Total number of A 27.05	tudents with hea the course: ants, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New e: ent Sassessed studer B 25.31	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera v York 1993 nts: 403 C 19.85	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco ceae, Equisetacea	nd their effects s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae.	Eenters of origi Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants.
To provide the s Brief outline of a Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended I Pahlow M.: Hea Course languag Notes: Course assessme Total number of A	tudents with hea the course: as, impprtance, loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv Apiaceae, Valer literature: ling plants. New e: ent `assessed studer B 25.31 : Matej Dudáš, I	collection. basic es, Flavonoids, H n and and post- tives of medicina aceae, Ericaceae ianaceae, Astera v York 1993 nts: 403 C 19.85 PhD.	terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariaco ceae, Equisetacea	nd their effects s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae.	Eenters of origi Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants.

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty of	f Science				
<b>Course ID:</b> KF/ DF2p/03	Course na	me: History of F	hilosophy 2 (Ge	eneral Introductio	on)
Course type, scope Course type: Lec Recommended co Per week: 2 / 1 P Course method:	ture / Practice ourse-load (h er study perio	ours):			
Number of ECTS	credits: 4				
Recommended ser	mester/trimes	ster of the course	2.		
Course level: I., II					
Prerequisities:					
Conditions for cou	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as		ts: 739			
A	В	С	D	E	FX
60.89	13.8	12.58	8.66	3.38	0.68
Provides: Doc. Ph	Dr. Peter Nezi	ník, CSc.			
Date of last modif	ication: 25.03	3.2020			
Approved:					

University: P. J. Ša	afárik Universi	ty in Košice			
Faculty: Faculty of	f Science				
<b>Course ID:</b> KF/ IH2/03	Course na	me: Idea Huma	nitas 2 (General 1	Introduction)	
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	ctice ourse-load (ho study period:	ours):			
Number of ECTS	credits: 2				
Recommended ser	nester/trimes	ter of the cours	<b>e:</b> 3.		
Course level: II.					
Prerequisities:					
Conditions for cou	urse completio	on:			
Learning outcome	es:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
<b>Course assessmen</b> Total number of as	-	s: 9			
A	В	С	D	Е	FX
88.89	11.11	0.0	0.0	0.0	0.0
Provides: Doc. Phi	Dr. Peter Nezn	ík, CSc.	1		
Date of last modif	ication: 12.02	.2021			
Approved:					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
<b>Course ID:</b> ÚBE IMU1/03	V/ Course na	me: Immunolog	у		
Course type, sco Course type: La Recommended Per week: 2 Per Course method	ecture course-load (he r study period:	ours):			
Number of ECT	S credits: 3				
Recommended s	emester/trimes	ter of the cours	<b>e:</b> 1.		
Course level: II.					
Prerequisities:					
<b>Conditions for c</b> Recognition. Oral examination	L.	on:			
the role and implessons is the pro-	portance of imr	nunology in var e organization ar	ious human dis	munology as we eases. The aim e immune systen during the induc	of Immunology
Responses of Inn Recognition by F	egy: Lymphatic ate Immunity, T 3-cell and T-cell ology: Allergy a	he Adaptive Imn Receptors, Antig nd other Hypers	nune Response, A gen Presentation sensitivities, Aut	Immune Systen Antigens and Anti to T-lymphocyte toimmunity and '	ibodies, Antiger es, Complement
Recommended I Janeway Ch. A., Murphy, K. (201 Delves, P.J. et al.	Travers P., Walj 2): Jeneway's Ir	nmunobiology. 8	8th ed. Garland 8		d Science, 2004
Course language	2:				
Notes:	,				
Course assessme Total number of		ts: 950			
A	В	С	D	Е	FX
39.68	23.68	24.42	7.05	1.79	3.37
Provides: RNDr.	Vlasta Demečk	ová, PhD.		<u>.</u>	

Approved:

Faculty: Faculty of ScienceCourse ID: ÚBEV/ UGM1/03Course name: Introduction to CCourse type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: presentNumber of ECTS credits: 6Recommended semester/trimester of the course: Course level: II.	Gene Manij	pulations	
UGM1/03 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: present Number of ECTS credits: 6 Recommended semester/trimester of the course:	Gene Manij	pulations	
Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present Number of ECTS credits: 6 Recommended semester/trimester of the course:			
Recommended semester/trimester of the course:			
Course level: II.			
Prerequisities:			
<b>Conditions for course completion:</b> Oral examination.			
<b>Learning outcomes:</b> To provide the students with the principles of pre- recombinant DNA.	paration a	nd application of	techniques of
<b>Brief outline of the course:</b> Isolation of nucleic acids. Restriction endonucleases. D used for DNA manipulation. Labeling of DNA. Nucl recombinant DNA. Recombinant vectors. Selection m cells. Selection of recombinants.Expression of heterole	eic acid hy arkers. Tra	ybridization. PCR.	Preparation of ant DNA to the
<b>Recommended literature:</b> Old, R.W., Primrose, S. B.: Principles of Genetic Man Engineering. Blackwell Scientific Publication, Londor Fitzgerald-Hayes, M and Reichsman, F: DNA and Bio edition. ISBN 9780080916354	n, 1992		
Course language:			
Notes:			
<b>Course assessment</b> Total number of assessed students: 254			
A B C	D	E	FX
61.42 27.17 8.27	2.36	0.39	0.39
Provides: RNDr. Mariana Kolesárová, PhD.			
Date of last modification: 07.10.2015			
Approved:			

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
<b>Course ID:</b> ÚBEV/ BIL/19	Course na	me: Lichen Biol	ogy		
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ure / Practice urse-load (h er study peri	ours):			
Number of ECTS	credits: 4				
Recommended sen	nester/trimes	ster of the cours	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome	S:				
Brief outline of the	course:				
<b>Recommended</b> lite	rature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of ass		ts: 5			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: RNDr. M	ichal Goga, I	PhD., prof. RND	r. Martin Bačko	r, DrSc.	
Date of last modifi	cation: 21.02	2.2019			
Approved:					

Faculty: Faculty					
- acarej • 1 acarty	of Science				
<b>Course ID:</b> ÚBE MVR/03	EV/ Course na	ame: Mineral Nu	trition		
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study peri	e iours):			
Number of ECT	S credits: 6				
Recommended s	semester/trimes	ster of the cours	<b>e:</b> 1.		
Course level: II.					
Prerequisities:					
Conditions for <b>c</b>	ourse completi	ion:			
Learning outcor Increase of known nutrients in plant	wledge about p	lant-soil interact	ions, nutrient uj	ptake and the rol	le of individua
Soil environmen Symbiosis in pla	t, effect of soil nt nutrition. Ma	croelements, mic	roelements and	t. Nutrient uptake their role in plant of other mineral 1	s. Transport an
Soil environmen Symbiosis in pla assimilation of n <b>Recommended I</b> Marschner H.: M Rowell D.L.: So Harlow, UK, 199	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94.	croelements, mic r and phosphate.	The importance s. 2nd ed. Acade	their role in plant	s. Transport and nutrients. on 1995.
Symbiosis in pla assimilation of n <b>Recommended I</b> Marschner H.: M Rowell D.L.: So Harlow, UK, 199 <b>Course language</b>	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94.	croelements, mic r and phosphate.	The importance s. 2nd ed. Acade	their role in plants of other mineral i emic Press, Londo	s. Transport and nutrients. on 1995.
Soil environmen Symbiosis in pla assimilation of n <b>Recommended I</b> Marschner H.: M Rowell D.L.: So Harlow, UK, 199	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94.	croelements, mic r and phosphate.	The importance s. 2nd ed. Acade	their role in plants of other mineral i emic Press, Londo	s. Transport and nutrients. on 1995.
Soil environmen Symbiosis in pla assimilation of n Recommended I Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course language Notes:	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94. e: ent	croelements, mic r and phosphate. ' n of Higher Plant hods and applica	The importance s. 2nd ed. Acade	their role in plants of other mineral i emic Press, Londo	s. Transport and nutrients. on 1995.
Soil environmen Symbiosis in pla assimilation of n Recommended I Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course language Notes: Course assessme	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94. e: ent	croelements, mic r and phosphate. ' n of Higher Plant hods and applica	The importance s. 2nd ed. Acade	their role in plants of other mineral i emic Press, Londo	s. Transport and nutrients. on 1995.
Soil environmen Symbiosis in pla assimilation of n Recommended I Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course language Notes: Course assessme Total number of	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94. e: ent assessed studen	the transformed provide the transformed provident the transformation of Higher Plant	roelements and The importance s. 2nd ed. Acade tions. Longman	their role in plants of other mineral n emic Press, Londo Scientific ɦ	s. Transport annutrients. on 1995. 78; Technical,
Soil environmen Symbiosis in pla assimilation of n Recommended I Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course language Notes: Course assessme Total number of A 47.46	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94. e: ent assessed studen B 28.81	the of Higher Plant the of Higher Plant the of and applica the of Solution of the other plant the of the other plant the othere plant the othere plant the other plant the othere plant	D 0.0	their role in plants of other mineral n emic Press, Londo Scientific ɦ	s. Transport annutrients. on 1995. .78; Technical, FX
Soil environmen Symbiosis in pla assimilation of n Recommended I Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course language Notes: Course assessme Total number of A	t, effect of soil nt nutrition. Ma itrogen, sulphur iterature: fineral Nutrition il Science : Met 94. e: ent assessed studen B 28.81 NDr. Peter Pal'o	the coelements, mic r and phosphate. 7 n of Higher Plant whods and applica tts: 59 C 20.34 ove-Balang, PhD.	D 0.0	their role in plants of other mineral n emic Press, Londo Scientific ɦ	s. Transport and nutrients. on 1995. .78; Technical, FX

Faculty: Faculty	of Science				
<b>Course ID:</b> ÚBI FRV1/03	EV/ Course r	name: Physiology	v of Plant Growth	and Developme	nt
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	Lecture / Practic l course-load ( 2 Per study per	ce hours):			
Number of ECT	<b>FS credits:</b> 6				
Recommended	semester/trim	ester of the cours	se: 2.		
Course level: II.					
Prerequisities:					
Conditions for a	course comple	tion:			
Learning outcol	mes:				
To learn about b Brief outline of Growth and mo transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, g Recommended	asic methods a the course: orphogenesis: ological and c cid. Photomorp tions, molecula lation of flowe ravitropism and literature:	phases and kinet developmental ef phogenesis and e ar mechanisms. E pring. Senescence d nastic movemen	physiology of pla ics; differentiatic fects; auxin, gibletiolation. Phytoc Blue-light response and programmed its. Stress physiole n. Sinauer ass., Su	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. C cell death. Orien ogy.	metabolism and innins, ethylen ies, physiology Germination and
Brief outline of Growth and me transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, g Recommended	basic methods a the course: orphogenesis: ological and o cid. Photomorp tions, molecula lation of flowe ravitropism and literature: E., Plant physic	phases and kinet developmental ef phogenesis and e ar mechanisms. E pring. Senescence d nastic movemen	ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed its. Stress physiolo	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. C cell death. Orien ogy.	metabolism and innins, ethylen ies, physiology Germination and
To learn about b Brief outline of Growth and mo transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, g Recommended Taiz L., Zeiger I	basic methods a the course: orphogenesis: ological and o cid. Photomorp tions, molecula lation of flowe ravitropism and literature: E., Plant physic	phases and kinet developmental ef phogenesis and e ar mechanisms. E pring. Senescence d nastic movemen	ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed its. Stress physiolo	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. C cell death. Orien ogy.	metabolism and innins, ethylen ies, physiology Germination and
To learn about b Brief outline of Growth and mo transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, g Recommended Taiz L., Zeiger I Course languag	asic methods a the course: orphogenesis: ological and o cid. Photomorp tions, molecula ilation of flowe ravitropism and literature: E., Plant physic ge: ent	phases and kinet developmental ef ohogenesis and e ar mechanisms. E ering. Senescence d nastic movemen	ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed its. Stress physiolo	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. C cell death. Orien ogy.	metabolism and innins, ethylen ies, physiology Germination and
To learn about b Brief outline of Growth and mo transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, gi Recommended Taiz L., Zeiger I Course languag Notes: Course assessm	asic methods a the course: orphogenesis: ological and o cid. Photomorp tions, molecula ilation of flowe ravitropism and literature: E., Plant physic ge: ent	phases and kinet developmental ef ohogenesis and e ar mechanisms. E ering. Senescence d nastic movemen	ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed its. Stress physiolo	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. C cell death. Orien ogy.	metabolism and innins, ethylen ies, physiology Germination and
To learn about b Brief outline of Growth and mo transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, g Recommended Taiz L., Zeiger I Course languag Notes: Course assessm Total number of	asic methods a the course: orphogenesis: ological and o cid. Photomorp tions, molecula ilation of flowe ravitropism and literature: E., Plant physic ge: ent fassessed stude	phases and kinet developmental ef phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen blogy. Fifth edition	ics; differentiatic fects; auxin, gibl etiolation. Phytoc Blue-light respons and programmed its. Stress physiolo n. Sinauer ass., Su	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy.	metabolism and innins, ethylen- ies, physiology Germination and ntation in space
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To learn about b Brief outline of Growth and mo transport, physi and abscisic ac ecological funct dormancy. Regu phototropism, g Recommended Taiz L., Zeiger I Course languag Notes: Course assessm Total number of A 35.19	asic methods a the course: orphogenesis: ological and o eid. Photomorp tions, molecula ilation of flowe ravitropism and literature: E., Plant physic ge: ent assessed stude B 21.3 Robert Gregorel	phases and kinet developmental ef phogenesis and e ar mechanisms. F ering. Senescence d nastic movemen plogy. Fifth edition ents: 108 C 18.52 c, RNDr. Michael	ics; differentiatic fects; auxin, gibletiolation. Phytoc Blue-light response and programmed its. Stress physiolog n. Sinauer ass., Su D 13.89	n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. Inderland 2010 E 8.33	retabolism and innins, ethylen- ies, physiology Germination and ntation in space

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: present         Number of ECTS credits: 5         Recommended semester/trimester of the course:         Course level: 1., II.         Prerequisities:         Conditions for course completion:         Written work.         Exam.         Learning outcomes:         To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation ogeography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografic SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374	University: P. J. Š	Šafárik Univers	ity in Košice			
FG1/03       Course type, scope and the method:         Course type: Lecture / Practice       Recommended course-load (hours):         Per weck: 2 / 1 Per study period: 28 / 14       Course method: present         Number of ECTS credits: 5       Recommended semester/trimester of the course:         Course level: 1., II.       Prerequisities:         Conditions for course completion:       Written work.         Exam.       Exam.         Learning outcomes:       To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:       History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relies, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation and their study. Geographical origin of cultivated plants.         Practices:       Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:       Hendrych R.: Fytogeografic SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course assessment       Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21.12       8.29       0.8       Provides: prof. RNDr. Pavol Má	Faculty: Faculty	of Science				
Course type: Lecture / Practice         Recommended course-load (hours):         Per week: 2 / 1 Per study period: 28 / 14         Course method: present         Number of ECTS credits: 5         Recommended semester/trimester of the course:         Course level: I., II.         Prerequisities:         Conditions for course completion:         Written work.         Exam.         Learning outcomes:         To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants. Preatrices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course assessment         Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21	<b>Course ID:</b> ÚBE' FG1/03	V/ Course na	me: Phytogeogr	aphy		
Recommended semester/trimester of the course:         Course level: I., II.         Prerequisities:         Conditions for course completion:         Written work.         Example         Learning outcomes:         To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Prevides: preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.      <	Course type: Le Recommended Per week: 2 / 1	cture / Practice course-load (h Per study perio	ours):			
Course level: 1., II.         Prerequisities:         Conditions for course completion:         Written work.         Exam.         Learning outcomes:         To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21.12       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.       Date of last modification: 03.05.2015	Number of ECTS	S credits: 5				
Prerequisities:         Conditions for course completion:         Written work.         Exam.         Learning outcomes:         To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21.12       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.       Date of last modification: 03.05.2015	Recommended so	emester/trimes	ster of the cours	e:		
Conditions for course completion:         Written work.         Exam.         Learning outcomes:         To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21.12       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.       Date of last modification: 03.05.2015	Course level: I., I	II.				
Written work.       Exam.         Learning outcomes:       To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:       History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374         A       B       C         A       B       C         A       B       C         39.04       22.46       21.12       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.       Date of last modification: 03.05.2015	Prerequisities:					
To obtain theoretical and practical knowledge from phytogeography.         Brief outline of the course:         History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants.         Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.         Recommended literature:         Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21.12       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.       Date of last modification: 03.05.2015		ourse completi	on:			
History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants. Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography. <b>Recommended literature:</b> Hendrych R.: Fytogeografie SPN, Praha 1984. Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998. <b>Course language:</b> Notes: Course assessment Total number of assessed students: 374 A B C D E FX 39.04 22.46 21.12 8.29 8.29 0.8 Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD. Date of last modification: 03.05.2015	0		al knowledge fro	om phytogeograp	bhy.	
Hendrych R.: Fytogeografie SPN, Praha 1984.         Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland, 1998.         Course language:         Notes:         Course assessment         Total number of assessed students: 374         A       B       C         J       E       FX         39.04       22.46       21.12       8.29       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.         Date of last modification: 03.05.2015	endemites, vicari ages. Postglacial geography: from Geographical orig Practices: Fieldw	ancy, floral ele evolution of S tropical rainfo gin of cultivated vorks. Preparir	ments. Main cou lovak vegetation prests to tundras d plants. ag of maps. Phy	rse of florogene Regional phytes. Changes of e	sis since paleozoi ogeography of Ea arth vegetation a	ic to quaternary arth. Vegetation and their study.
Notes:         Course assessment         Total number of assessed students: 374         A       B       C       D       E       FX         39.04       22.46       21.12       8.29       8.29       0.8         Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.       Date of last modification: 03.05.2015	Hendrych R.: Fyt	ogeografie S	,	inauer Associate	es, Sunderland, 19	998.
Course assessmentTotal number of assessed students: 374ABCDEFX39.0422.4621.128.298.290.8Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.Date of last modification: 03.05.2015	Course language	:				
Total number of assessed students: 374ABCDEFX39.0422.4621.128.298.290.8Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.Date of last modification: 03.05.2015	Notes:					
39.0422.4621.128.298.290.8Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD.Date of last modification: 03.05.2015		-	ts: 374			
Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD. Date of last modification: 03.05.2015	А	В	С	D	Е	FX
Date of last modification: 03.05.2015	39.04	22.46	21.12	8.29	8.29	0.8
	Provides: prof. R	NDr. Pavol Má	rtonfi, PhD., Mg	r. Vladislav Kol	arčik, PhD.	
Annroved	Date of last modi	ification: 03.05	5.2015			
	Approved:					

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚBEV/ BTR1/06	Course name: Plant Biotechnology
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 3 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 42
Number of ECTS cr	edits: 6
Recommended seme	ester/trimester of the course:
<b>Course level:</b> I., II., I	II.
Prerequisities:	
<b>Conditions for cours</b> Active participation a	se completion: at the practicals, protocols, oral examination
<b>Learning outcomes:</b> To gain theoretical ar	nd practical knowledge on plant tissue culture in vitro.
Micropropagation, ty and embryogenesis, d production, bioreacto direct and indirect me reporter genes used in slow growth method. plants resistant to bior	tory of plant biotechnology. Aseptic techniques, culture conditions. ypes of plant explant cultures used in biotechnology. Somatic hybridization direct and indirect organogenesis. Somaclonal varation. Secondary metabolites ors, biotransformation, immobilization and elicitation. Genetic transformation, ethods of transformation. Types of vectors, promotors, selection markers and n plant transformation. Germplasm storage, gene banks. Cryopreservation and Genetically modified organisms - metabolic engineering, genetic engineering, tic and abiotic stresses, molecular farming, the role of tissue and organ specific tome engineering, plant-based edible vaccines. RNA silencing, the application

#### **Recommended literature:**

Abdin M.Z., Kiran U., Kamaluddin M., Ali A. (eds.): Plant Biotechnology: Principles and Applications. 2017, Springer Nature Singapore Pte Ltd., Singapore

Chawla H.S.: Introduction to Plant Biotechnology. 2009, third edition, Science Publisher, Enfield, USA

Periodicals and Internet sources

#### **Course language:**

Notes:

#### Course assessment

Total number of assessed students: 167

А	В	С	D	Е	FX	Ν	Р
40.72	18.56	13.17	8.98	10.78	2.99	0.0	4.79

**Provides:** prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Nigutová, PhD., RNDr. Miroslava Bálintová, PhD.

Date of last modification: 02.02.2021

Approved:

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
<b>Course ID:</b> ÚBE EKR1/03	EV/ Course n	ame: Plant Ecolo	ogy		
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study per	e Iours):			
Number of ECT	S credits: 6				
Recommended s	semester/trime	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for a	course complet	ion:			
<b>Learning outcom</b> Introduction to H					
between individu	of plant integra als and populat		the populations. I	of plant population interactions betwo ystems.	
Recommended	iterature:				
Course languag	e:				
Notes:					
Course assessme Total number of		nts: 247			
A	В	C	D	Е	FX
72.87	17.0	6.07	2.43	1.62	0.0
Provides: prof. I	RNDr. Martin B	ačkor, DrSc.			
Date of last mod	lification: 03.0	5.2015			
Approved:					

Foculty Foculty		sity in Košice			
raculty: raculty	of Science				
<b>Course ID:</b> ÚBE ER1/01	EV/ Course n	ame: Plant Embr	yology		
Course type, sco Course type: L Recommended Per week: 1 / 1 Course method	ecture / Practic course-load (l Per study per	e hours):			
Number of ECT	S credits: 3			_	
Recommended s	semester/trime	ester of the cours	e:		
Course level: II.					
Prerequisities:					
<b>Conditions for c</b> Oral examination	1	ion:			
<b>Learning outcom</b> To provide the s		e general principle	es of embryogen	esis of the seed p	lants
female gametop	ohyte. Ovule, n	ucellus and integ	guments. Megas		ıbryo sac. Egg,
female gametop synergids, antipo Microsporogene fertilization. Doo Plumule, cotyleo in vitro. <b>Recommended</b>	bhyte. Ovule, n odals and polar sis. Pollen gra uble fertilization dones, radicel.	nucellus and integ nuclei. Types the ain. Generative a n. Endosperm. Er Development of t	guments. Megas embryo sacs. De and tube nucleu nbryogenesis (m the seed. Apomiz	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle xis. Development	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyleo in vitro. <b>Recommended I</b> Johri, B.M. (198	bhyte. Ovule, n odals and polar sis. Pollen gra uble fertilization dones, radicel. literature: B4)Plant embryc en, P.H., Evert,	nucellus and internucellus and internuclei. Types the nuclei. Generative and control of the angle of the second s	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle kis. Development	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav	bhyte. Ovule, m odals and polar sis. Pollen gra uble fertilization dones, radicel. <b>literature:</b> B4)Plant embryc en, P.H., Evert, New York	nucellus and integ nuclei. Types the nin. Generative a n. Endosperm. Er Development of t ology:Embryogen	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle kis. Development	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav and Company, N	bhyte. Ovule, m odals and polar sis. Pollen gra uble fertilization dones, radicel. literature: B4)Plant embryc en, P.H., Evert, lew York	nucellus and integ nuclei. Types the nin. Generative a n. Endosperm. Er Development of t ology:Embryogen	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle kis. Development	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav and Company, N <b>Course languag</b>	ohyte. Ovule, m odals and polar sis. Pollen gra uble fertilizatio dones, radicel. <b>literature:</b> B4)Plant embrycen, P.H., Evert, New York e: ent	nucellus and integ nuclei. Types the ain. Generative a n. Endosperm. Er Development of t blogy:Embryogen R.F. and Eichhor	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle kis. Development	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav and Company, N <b>Course languag</b> <b>Notes:</b> <b>Course assessme</b>	ohyte. Ovule, m odals and polar sis. Pollen gra uble fertilizatio dones, radicel. <b>literature:</b> B4)Plant embrycen, P.H., Evert, New York e: ent	nucellus and integ nuclei. Types the ain. Generative a n. Endosperm. Er Development of t blogy:Embryogen R.F. and Eichhor	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle kis. Development	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav and Company, N <b>Course languag</b> <b>Notes:</b> <b>Course assessme</b> Total number of	ohyte. Ovule, m odals and polar sis. Pollen gra uble fertilizatio dones, radicel. <b>literature:</b> 34)Plant embryce en, P.H., Evert, New York e: ent fassessed studen	nucellus and integ nuclei. Types the ain. Generative a n. Endosperm. En Development of t blogy:Embryogen R.F. and Eichhor	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm n S.E. (2003) Bi	porogenesis. Em velopment of mal s. Pollen tube. 1 ono- and dicotyle kis. Development us. Springer-Verla ology of Plants. V	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids ng, Berlin, W.H.Freeman
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav and Company, N <b>Course languag</b> <b>Notes:</b> <b>Course assessme</b> Total number of A	bhyte. Ovule, m odals and polar sis. Pollen gra uble fertilizatio dones, radicel. <b>literature:</b> B4)Plant embryce en, P.H., Evert, New York e: ent assessed studen B 28.35	nucellus and integ nuclei. Types the ain. Generative a n. Endosperm. Er Development of t blogy:Embryogen R.F. and Eichhor nts: 127 C 14.96	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm n S.E. (2003) Bi	E	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids ag, Berlin, W.H.Freeman
female gametop synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. <b>Recommended I</b> Johri, B.M. (198 Heidelberg. Rav and Company, N <b>Course languag</b> <b>Notes:</b> <b>Course assessme</b> Total number of A 45.67	ohyte. Ovule, m odals and polar sis. Pollen gra uble fertilizatio dones, radicel. <b>literature:</b> A)Plant embryce en, P.H., Evert, New York e: ent assessed studen B 28.35 . Lenka Marton	nucellus and integ nuclei. Types the ain. Generative a n. Endosperm. Er Development of t blogy:Embryogen R.F. and Eichhor nts: 127 C 14.96 fiová	guments. Megas embryo sacs. De ind tube nucleu nbryogenesis (m the seed. Apomit y of Angiosperm n S.E. (2003) Bi	E	bryo sac. Egg, le gametophyte. Pollination and edonous plants). t the embryoids ag, Berlin, W.H.Freeman

Fooulty: Fooult		sity in Košice			
raculty: raculty	y of Science				
Course ID: ÚBI MR1/03	EV/ Course n	ame: Plant Metal	oolism		
Course type, sc Course type: I Recommended Per week: 2 / 2 Course method	Lecture / Practic l course-load (l 2 Per study per	e hours):			
Number of EC	<b>FS credits:</b> 6				
Recommended	semester/trime	ester of the cours	<b>e:</b> 1.		
Course level: II	•				
Prerequisities:					
Conditions for Examen	course complet	tion:			
Learning outco To provide the secondary metal	students with	pathways of bios	ynthesis in plan	t and functions	of primary and
Photosynthesis:		11	4 1.14	hearntian electr	
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Te	on. Calvin cycle, nd sucrose. Resp pid biosynthesis a nitrate assimilatio erpenes: biosynthe s, flavonoids and	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions	hotorespiration. sis, citric acid o carbohydrates. onversion to amin . Phenolic compo	cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. P	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanee <b>literature:</b> hotosynthesis. T	on. Calvin cycle, nd sucrose. Resp pid biosynthesis a nitrate assimilation erpenes: biosynthe	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid	hotorespiration. vsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense.
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. P	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanes <b>literature:</b> hotosynthesis. Th h edition. Sinau	on. Calvin cycle, nd sucrose. Resp pid biosynthesis at nitrate assimilation erpenes: biosynthe s, flavonoids and Third edition. BIO	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid	hotorespiration. vsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense.
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. P physiology. Fift	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanes <b>literature:</b> hotosynthesis. Th h edition. Sinau	on. Calvin cycle, nd sucrose. Resp pid biosynthesis at nitrate assimilation erpenes: biosynthe s, flavonoids and Third edition. BIO	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid	hotorespiration. vsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense.
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. P physiology. Fift <b>Course languag</b>	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Tec phenylpropanes <b>literature:</b> hotosynthesis. The dition. Sinau ge:	on. Calvin cycle, nd sucrose. Resp pid biosynthesis a nitrate assimilation erpenes: biosynthe s, flavonoids and Third edition. BIO ter ass., Sunderlan	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid	hotorespiration. vsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense.
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. Pl physiology. Fift <b>Course languag</b> <b>Notes:</b> <b>Course assessm</b>	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Tec phenylpropanes <b>literature:</b> hotosynthesis. The dition. Sinau ge:	on. Calvin cycle, nd sucrose. Resp pid biosynthesis a nitrate assimilation erpenes: biosynthe s, flavonoids and Third edition. BIO ter ass., Sunderlan	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid	hotorespiration. vsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense.
transport, photo plants. Synthes transport and AT Nitrogen metabo assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. Pi physiology. Fift <b>Course languag</b> <b>Notes:</b> <b>Course assessm</b> Total number of	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanes <b>literature:</b> hotosynthesis. Th h edition. Sinau ge:	n. Calvin cycle, nd sucrose. Resp pid biosynthesis at nitrate assimilation erpenes: biosynthe s, flavonoids and Third edition. BIO her ass., Sunderland	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid S, Oxford 2001; d 2010	hotorespiration. sis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o Taiz L., Zeiger F	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways f plant defense. E., Plant
transport, photo plants. Synthes transport and AT Nitrogen metabor assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. Pl physiology. Fift <b>Course languag</b> <b>Notes:</b> <b>Course assessm</b> Total number of A 25.93	ophosphorylation is of starch and IP synthesis. Lip olism: fixation, I metabolism. Tec phenylpropanes <b>literature:</b> hotosynthesis. The hotosynthesis. The dition. Sinau ge: 	n. Calvin cycle, nd sucrose. Resp pid biosynthesis at nitrate assimilation erpenes: biosynthe s, flavonoids and Third edition. BIO her ass., Sunderland nts: 108	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid S, Oxford 2001; d 2010 D 16.67	hotorespiration. sis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o Taiz L., Zeiger F	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways f plant defense. E., Plant FX
transport, photo plants. Synthes transport and AT Nitrogen metabor assimilation and of biosynthesis, <b>Recommended</b> Lawlor D. W. Pl physiology. Fift <b>Course languag</b> <b>Notes:</b> <b>Course assessm</b> Total number of A 25.93	ophosphorylatio is of starch an IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanes <b>literature:</b> hotosynthesis. T h edition. Sinau ge: B 16.67 RNDr. Peter Pal <sup>2</sup>	on. Calvin cycle, nd sucrose. Resp pid biosynthesis at nitrate assimilatio erpenes: biosynthe s, flavonoids and Third edition. BIO ter ass., Sunderlan nts: 108 C 18.52 Pove-Balang, PhD	rubisco and p piration: glycoly nd convertion int on, ammonium c sis and functions lignins. Alkaloid S, Oxford 2001; d 2010 D 16.67	hotorespiration. sis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o Taiz L., Zeiger F	C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways f plant defense. E., Plant FX

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
<b>Course ID:</b> ÚBEV IOR/09	V/ Course na	me: Plant Protec	etion		
Course type, scop Course type: Le Recommended o Per week: 2 / 2 I Course method:	cture / Practice course-load (h Per study perio	ours):			
Number of ECTS	6 credits: 4				
Recommended se	emester/trimes	ster of the cours	e:		
Course level: I., I	I.				
Prerequisities: Ú	BEV/VEK1/03				
Conditions for co	ourse completi	on:			
Learning outcom	es:				
Brief outline of th	ne course:				
Recommended lit	terature:				
Course language:					
Notes:					
Course assessmen Total number of a	-	ts: 49			
A	В	С	D	Е	FX
4.08	26.53	24.49	18.37	26.53	0.0
Provides: prof. R	NDr. Martin Ba	ačkor, DrSc., Ing	. Martin Suvák, 1	PhD.	
Date of last modi	fication: 03.05	5.2015			
Approved:	,				

University: P. Faculty: Facul					
		ame: Plant Taxo	nomy		
TR1/99			honry		
Course type: Recommende	cope and the mo Lecture / Practic ed course-load (1 2 Per study per od: present	e hours):			
Number of EC	CTS credits: 5				
Recommended	l semester/trime	ester of the cour	se: 1.		
Course level:	Ι.				
Prerequisities					
	• course complet a selected taxono				
<b>Learning outc</b> To learn about		nd approaches in	plant taxonomy.		
data. Variation utilization in a phylogeny of a plant evolution	in plants and t taxonomy. Mole- tracheophytes acc	heir study. Num cular data as im cording to the ne econdary speciation	sification. Source erical taxonomy portant data of n ewest data. Evolu on. Basics of bota	(phenetics). Cla recent systemation ition in population	distics and their cs. Overview of ons, principles of
2001. Stuessy T. F.: J Judd W. S., Ca Phylogenetic A	lters S. M.: Prom Plant Taxonomy. Impbell Ch. S., K Approach, 2nd ed al. (Eds.): Medzin	- New York, Oxt cellogg E. A., Ste l Sinauer Assoc	ce rostlin Unive ford 1990. evens P. F., Donog ciates, Sunderland anickej nomenkla	ghue M. J.: Plant d, 2002.	Systematics. A
Course langua	ige:				
Notes:					
Course assess Total number of	nent of assessed stude	nts: 127			
А	В	C	D	E	FX
39.37	01.0(	10.0	11.02	()	2.1.5
59.57	21.26	18.9	11.02	6.3	3.15

**Date of last modification:** 03.05.2015

Approved:

University: P. J.	. Šafárik Univers	sity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚB STFR/09	EV/ Course na	ame: Plant stress	physiology		
Course type: I Recommended	ope and the me Lecture / Practice d course-load (h 2 Per study peri d: present	e ours):			
Number of EC	<b>FS credits:</b> 3				
Recommended	semester/trime	ster of the cours	e:		
Course level: II	•				
Prerequisities:					
Conditions for	course complet	ion:			
	troduce basic pla	ant stress condition	ons to the stude	ents and elucidate	phytohormonal
Plant stress read salicylic acid, a to stress respon perception, its p developmental	ctions – synthesi bscisic acid, NC nse. Examples rocessing and su reaction to the st	is of plant hormo and others ), pr of known plant bsequent physiol ress condition.	nes (auxins, cyto oteins, metaboli stress signallin ogical changes l	ress reactions in li tokinins, ethylene ites and other cor g cascades starti eading to executio tions, their analysi	, jasmonic acid, npounds related ing from signal on of growth and
	E, Plant physiolo	gy. 4th editon. Si ley-Blackwell, 20	,	derland 2006.	
Course languag	ge:				
Notes:					
Course assessm Total number of	<b>lent</b> f assessed studer	nts: 14			
А	В	С	D	Е	FX
64.29	14.29	14.29	0.0	0.0	7.14
Provides: RND	r. Michal Goga,	PhD., RNDr. Mic	haela Bačovčin	ová, PhD.	
Date of last mo	dification: 03.03	5.2015			
Approved:					

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> KPPaPZ/PPZMg/12	Course name: Psychology and Health Psychology (Master's Study)
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 14 / 28
Number of ECTS cr	edits: 4
Recommended seme	ster/trimester of the course:
Course level: II.	
Prerequisities:	
instructors); continuo in the range of maxir max. 15 points. A ma b) Written examination of the lecture. The wr 3 points) with a maxir Conditions for admiss c) Exam: written form You need to get at lea Rating: 65 and less FX; 66 - 72 E; 73 - 79 D; 80 - 86 C; 87 - 93 B; 94 - 100 A. The final evaluation r A more detailed explat of an agreement for the Any modifications to	g the whole semester (according to the ongoing instructions of the lecturer and us control of study results at seminars during the teaching part of the semester num 5 points. Preparation, presentation and discussion on a selected topic - aximum of 2 absences are allowed. On of the topics of lectures in the 9th week of the semester at the time and place itten examination will consist of 10 questions of a factual nature (1 question /
which will be given an life. They will gain or are closely related to t such as educational p	to orient themselves in the basic concepts and theories of health psychology, n interesting and engaging explanation, accompanied by many examples from rientation in current topics, which are the content of health psychology or they he issues not only of this discipline, but also of other psychological disciplines psychology, personality psychology and the like. Within the course, students unicate freely with the teacher and discuss the topics with other classmates.

Students can practically apply the knowledge from the subject especially in the field of prevention of burnout syndrome and support of mental health in the work of a teacher.

### **Brief outline of the course:**

1 Introduction to health psychology

2 Psychoimmunology

3 Personality factors and health

- 4 Social support as a protective factor in relation to health
- 5 Subjective well-being
- 6 Stress and stressful situations and ways to manage them
- 7 Burnout syndrome
- 8 Health-promoting behavior, mental hygiene
- 9 Health risk behavior
- 10 School as an important factor of health

### **Recommended literature:**

Křivohlavý, J.: Psychologie zdraví. Portál, Praha 2001.

Křivohlavý, J.: Psychologie nemoci. Grada, Praha, 2002.

Křivohlavý, J.: Psychologie moudrosti a dobrého života. Grada, Praha, 2009.

Kebza, V.: Psychosociální determinanty zdraví. Academia, Praha 2005.

Kahneman, D., Diener, E., Schwarz, N.(Eds), Well-Being. The Foundations of Hedonic

Psychology. New York, Russell Sage Foundation, 2003.

Kaplan, R. M.: Zdravie a správanie človeka. SPN, Bratislava 1996.

Sarafino, E. P.: Health Psychology. Biopsychosocial interactions. John Wiley and sons 1994.

Baštecký, J., Šavlík, J., Šimek, J. 1993. Psychosomatická medicína. Praha: Grada

Tress, W., Krusse, J., Ott, J.: Základní psychosomatická péče. Portál, Praha 2008.

### **Course language:**

slovak

Notes:

### **Course assessment**

Total number of assessed students: 226

А	В	С	D	Е	FX
19.47	25.22	25.66	13.27	15.93	0.44

Provides: PhDr. Anna Janovská, PhD., Mgr. Lucia Barbierik, PhD.

Date of last modification: 16.02.2021

**Approved:** 

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aer	robic Exercise
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: cou	ce rse-load (hours):  y period: 36s	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: I., II.		
Prerequisities:		
<b>Conditions for cours</b> Conditions for course Attendance		
conditions actively a Students will acquire	nd their skills in work and	ssibilities how to spend leisure time in seaside a communication with clients will be improved. anising the cultural and art-oriented events, with experiences for visitors.
Students will be pro- conditions actively a Students will acquire the aim to improve th <b>Brief outline of the c</b> Brief outline of the c I. Basics of seaside a 2. Morning exercises 3. Pilates and its appl 4. Exercises for the s 5. Yoga basics 6. Sport as a part of lo 7. Application of proj (children, young peop 8. Application of seas	nd their skills in work and practical experience in org the stay and to create positive ourse: ourse: erobics ication in seaside conditions pine eisure time ects of productive spending ole, elderly) side cultural and art-oriented	anising the cultural and art-oriented events, with experiences for visitors.
Students will be pro- conditions actively a Students will acquire the aim to improve the <b>Brief outline of the c</b> Brief outline of the co 1. Basics of seaside a 2. Morning exercises 3. Pilates and its appl 4. Exercises for the sp 5. Yoga basics 6. Sport as a part of la 7. Application of proj (children, young peop	nd their skills in work and practical experience in org the stay and to create positive ourse: ourse: erobics ication in seaside conditions pine eisure time ects of productive spending ole, elderly) side cultural and art-oriented	anising the cultural and art-oriented events, with experiences for visitors.
Students will be pro- conditions actively a Students will acquire the aim to improve th <b>Brief outline of the c</b> Brief outline of the c I. Basics of seaside a 2. Morning exercises 3. Pilates and its appl 4. Exercises for the s 5. Yoga basics 6. Sport as a part of lo 7. Application of proj (children, young peop 8. Application of sease <b>Recommended litera</b> <b>Course language:</b>	nd their skills in work and practical experience in org the stay and to create positive ourse: ourse: erobics ication in seaside conditions pine eisure time ects of productive spending ole, elderly) side cultural and art-oriented	anising the cultural and art-oriented events, with experiences for visitors.
Students will be pro- conditions actively a Students will acquire the aim to improve th <b>Brief outline of the c</b> Brief outline of the c I. Basics of seaside a 2. Morning exercises 3. Pilates and its appl 4. Exercises for the sp 5. Yoga basics 6. Sport as a part of lo 7. Application of proj (children, young peop 8. Application of sease <b>Recommended litera</b> <b>Course language:</b> Notes:	nd their skills in work and practical experience in org the stay and to create positive ourse: ourse: erobics ication in seaside conditions pine eisure time ects of productive spending ole, elderly) side cultural and art-oriented	anising the cultural and art-oriented events, with experiences for visitors.
Students will be pro- conditions actively a Students will acquire the aim to improve th <b>Brief outline of the c</b> Brief outline of the c I. Basics of seaside a 2. Morning exercises 3. Pilates and its appl 4. Exercises for the s 5. Yoga basics 6. Sport as a part of lo 7. Application of proj (children, young peop 8. Application of sease <b>Recommended litera</b> <b>Course language:</b>	nd their skills in work and practical experience in org the stay and to create positive ourse: pourse: erobics ication in seaside conditions pine eisure time ects of productive spending ple, elderly) side cultural and art-oriented nture:	anising the cultural and art-oriented events, with experiences for visitors.
Students will be pro- conditions actively a Students will acquire the aim to improve the <b>Brief outline of the c</b> Brief outline of the co 1. Basics of seaside a 2. Morning exercises 3. Pilates and its appl 4. Exercises for the sp 5. Yoga basics 6. Sport as a part of lo 7. Application of proj (children, young peop 8. Application of sease <b>Recommended litera</b> <b>Course language:</b> Notes: Course assessment	nd their skills in work and practical experience in org the stay and to create positive ourse: pourse: erobics ication in seaside conditions pine eisure time ects of productive spending ple, elderly) side cultural and art-oriented nture:	anising the cultural and art-oriented events, with experiences for visitors.

Provides: Mgr. Agata Horbacz, PhD.

Date of last modification: 15.03.2019

Approved:

University: P. J.	Šafárik Univer	sity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚB SFR/04	EV/ Course name: Seminar from Plant Physiology					
	Practice I course-load (I er study period	nours):				
Number of ECT	<b>FS credits:</b> 2					
Recommended	semester/trime	ster of the cours	e:			
Course level: II						
Prerequisities:						
Conditions for	course complet	ion:				
scientific results Brief outline of Metodology, eti for full access t	h training, inter 5. Increase of ab <b>the course:</b> cs and legal aspendent o scientific jour	rpretation of actu ility to constructi ects of scientific v nals. Scientific in l discussion in act	vely discuss scie works. Database nportance of pu	entific topics. s of search in lite iblications (CC a	rature, database	
Recommended	literature:					
	ge:					
Course languag						
<b>Notes:</b> <b>Course assessm</b> Total number of		nts: 26				
Notes: Course assessm		nts: 26 C	D	E	FX	
Notes: Course assessm Total number of	assessed studer	1	D 0.0	E 0.0	FX 0.0	
Notes: Course assessm Total number of A 80.77	Eassessed studen B 19.23	C 0.0				
Notes: Course assessm Total number of A	Eassessed studer B 19.23 C. Michaela Bačo	C 0.0 ovčinová, PhD.				

University: P. J. Šafá	rik Universi	ty in Košice			
Faculty: Faculty of S	cience				
<b>Course ID:</b> KPPaPZ/SPVKE/07	<b>Course na</b> Situations	<b>Course name:</b> Social-Psychological Training of Coping with Critical Life Situations			
Course type, scope a Course type: Practi- Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (ho dy period:	ours):			
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimes	ter of the course: 2.			
Course level: II.					
Prerequisities:					
<b>Conditions for cours</b>	se completio	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ature:				
Course language:					
Notes:					
<b>Course assessment</b> Total number of asse	ssed student	s: 126			
abs		n	Z		
97.62		2.38	0.0		
Provides: Mgr. Ondr	ej Kalina, Pl	hD.	- ·		
Date of last modifica	tion: 11.02	.2021			
Approved:					

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: cou	ce rse-load (hours): Idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: I., I.II.,	II.
Prerequisities:	
Learning outcomes: Learning outcomes: Increasing physical	1
University provides a floorball, yoga, pilate tennis, sports for unfi In the first two seme and particularities of physical condition, c Last but not least, the means of a special pr In addition to these	

### **Recommended literature:**

### **Course language:**

Notes:

the premises of the faculty or University or competitions with national or international participation.

Course ass Total numb	essment per of assesse	ed students: 1	4050				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.48 0.07 0.0 0.0 0.0 0.04 7.51 3.9						3.9	
Mgr. Zuzan	<b>Provides:</b> Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD.						
Date of last modification: 18.03.2019							
Approved:	Approved:						

Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVb/11	Course name: Sports Activities II.
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: co	ce rse-load (hours): ıdy period: 28
Number of ECTS cr	redits: 2
Recommended seme	ester/trimester of the course: 2.
Course level: I., I.II.	, II.
Prerequisities:	
<b>Conditions for cours</b> Conditions for cours Final assessment and	•
• • •	condition and performance within individual sports. Strengthening the nts to the selected sports activity and its continual improvement.

### Brief outline of the course:

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, basketball, badminton, floorball, yoga, pilates, swimming, body-building, indoor football, self-defence and karate, table tennis, sports for unfit persons, streetball, tennis, and volleyball.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer

physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

### **Recommended literature:**

### **Course language:**

Notes:

Course asse Total numb		d students: 1	1330				
abs	abs abs-A abs-B abs-C abs-D abs-E n neabs						neabs
85.75	85.75 0.56 0.02 0.0 0.0 0.05 9.87 3.75						3.75
Mgr. Zuzana	<b>Provides:</b> Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD.						
Date of last modification: 18.03.2019							
Approved:	Approved:						

University:	P. J. Šafári	k University i	n Košice				
Faculty: Fa	culty of Sci	ence					
<b>Course ID:</b> TVc/11	ÚTVŠ/	Course name	: Sports Acti	vities III.			
Course ty Recomme Per week:	pe: Practice nded cours 2 Per stud	d the method e-load (hour y period: 28 bined, presen	s):				
Number of	ECTS crea	lits: 2					
Recommen	ded semest	er/trimester	of the cours	e: 3.			
Course leve	el: I., I.II., I	[.					
Prerequisit	ies:						
Conditions	for course	completion:					
Learning o	utcomes:						
Brief outlin	ne of the co	urse:					
Recommen	ded literat	ure:					
Course lan	guage:						
Notes:							
Course ass Total numb		ed students: 8	3383				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
90.11	0.05	0.01	0.0	0.0	0.02	4.04	5.76
Dávid Kašk	o, PhD., Mg	Čurgali, Mgr gr. Zuzana Kü Stanislav Vok	ichelová, Ph	D., doc. Paed	Dr. Ivan Uhe	er, PhD., Mg	r. Marek
Date of last	t modificati	on: 03.05.20	15				
Approved:							

University:	P. J. Šafáril	c University i	n Košice				
Faculty: Fa	culty of Sci	ence					
<b>Course ID:</b> TVd/11	ÚTVŠ/ C	Course name:	: Sports Acti	vities IV.			
Course ty Recomme Per week:	pe: Practice nded cours 2 Per study	d the method e-load (hours y period: 28 bined, present	s):				
Number of	ECTS cred	lits: 2					
Recommen	ded semest	er/trimester	of the cours	<b>e:</b> 4.			
Course leve	el: I., I.II., II	[.					
Prerequisit	ies:						
Conditions	for course	completion:					
Learning o	utcomes:						
Brief outlin	e of the cou	urse:					
Recommen	ded literatı	ire:					
Course lan	guage:						
Notes:							
Course asso Total numb		ed students: 5	5101				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.2	0.29	0.04	0.0	0.0	0.0	6.76	7.7
Dávid Kašk	o, PhD., Mg	Čurgali, Mgr gr. Zuzana Kü Stanislav Vok	chelová, Phl	D., doc. Paed	Dr. Ivan Uhe	er, PhD., Mg	r. Marek
Date of last	t modificati	on: 03.05.201	15				
Approved:							

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty of	of Science				
<b>Course ID:</b> ÚBEV SVK/01	V/ Course na	me: Student Sci	entific Conferen	ce	
Course type, scop Course type: Recommended o Per week: Per s Course method:	course-load (ho tudy period:				
Number of ECTS	6 credits: 4				
Recommended se	emester/trimes	ter of the cours	e:		
Course level: I., I	I				
Prerequisities:					
Conditions for co	ourse completio	on:			
Learning outcom	es:				
Brief outline of the	ne course:				
Recommended lit	terature:				
Course language					
Notes:					
<b>Course assessmen</b> Total number of a		s: 277			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:				•	
Date of last modi	fication: 03.05	2015			
Approved:					

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚTVŠ/ LKSp/13	Course name: Summer Course-Rafting of TISA River
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: cou	ce rse-load (hours): ly period: 36s
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
<b>Conditions for course</b> Conditions for course Attendance Final assessment: Ra	
Learning outcomes: Learning outcomes: Students have knowled	edge of rafts (canoe) and their control on waterway.
5. Canoe lifting and o	ourse: iculty of waterways ing ning using an empty canoe carrying n the water without a shore contact be out of the water
Recommended litera	iture:
Course language:	
Notes:	

<b>Course assessment</b> Total number of assessed students: 153	
abs	n
45.75	54.25
Provides: Mgr. Dávid Kaško, PhD.	
Date of last modification: 18.03.2019	
Approved:	

University: P. J. Šafá							
Faculty: Faculty of S							
<b>Course ID:</b> ÚTVŠ/ KP/12							
Course type, scope a Course type: Practic Recommended cou Per week: Per stud Course method: cou	ce rse-load (hours): ly period: 36s						
Number of ECTS cr	edits: 2						
Recommended seme	ester/trimester of the course:						
Course level: I., II.							
Prerequisities:							
<b>Conditions for course</b> Conditions for course Attendance Final assessment: con	•						
Learning outcomes:							
Students will be far conditions as they wi and demanding situa	miliarized with principles of safe stay and movement in extreme natural ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles.						
Students will be far conditions as they wi and demanding situa course develops tear require overcoming of <b>Brief outline of the c</b> Brief outline of the c Lectures: 1. Principles of behav 2. Preparation and lea 3. Objective and subj 4. Principles of hygic Exercises: 1. Movement in terra	ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. <b>course:</b> ourse: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay						
Students will be far conditions as they wi and demanding situa course develops tear require overcoming of <b>Brief outline of the c</b> Brief outline of the c Lectures: 1. Principles of behav 2. Preparation and lea 3. Objective and subj 4. Principles of hygie Exercises: 1. Movement in terra 2. Preparation of imp	ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. <b>Fourse:</b> viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay ad food preparation.						
Students will be far conditions as they wi and demanding situa course develops tear require overcoming of <b>Brief outline of the c</b> Brief outline of the c Lectures: 1. Principles of behav 2. Preparation and lea 3. Objective and subj 4. Principles of hygie Exercises: 1. Movement in terra 2. Preparation of imp 3. Water treatment ar	ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. <b>course:</b> viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay						

Course assessment Total number of assessed students: 393	
abs	n
44.53	55.47
Provides: MUDr. Peter Dombrovský, Mgr. Mare	k Valanský
Date of last modification: 15.03.2019	
Approved:	

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: KPPaPZ/UPR/03	Course na	me: The Art of A	Aiding by Verba	l Exchange	
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (h study period:	ours):			
Number of ECTS	credits: 2				
Recommended set	mester/trimes	ster of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Notes:					
<b>Course assessmen</b> Total number of as		ts: 49			
A	В	С	D	E	FX
85.71	4.08	2.04	2.04	2.04	4.08
Provides: Mgr. On	ndrej Kalina, P	hD.			1
Date of last modif	fication: 18.03	.2019			
Approved:				-	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ ZOG1/03	Course name: Zoogeography
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 6
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
<b>Conditions for cours</b> Active participation i Preparation of oral pr	-

Semestral written test.

Oral examination

#### Learning outcomes:

The main goal of the subject is to get knowledge on the basic reasons of recent distribution of the animals on the Earth, zoogeographic regionalization of the Earth's surface and human influence on the faunal distribution in the history.

### Brief outline of the course:

This course will review our current understanding of the patterns of animal distribution and the processes that influence distributions of species and their attributes. Zoogeography will integrate information on the historical and current ecology, genetics, and physiology of animals and their interaction with environmental processes (continental drift, climate) in regulating geographic distributions. The course will emphasize descriptive and analytical approaches useful in hypothesis testing in zoogeography and will illustrate applied aspects of zoogeography (e.g. refuge design in conservation).

### **Recommended literature:**

Buchar, J., 1983: Zoogeografie. SPN Praha

Darlington, P.J., 1998: Zoogeography: The geographical distribution of animals. Krieger, USA Lomolino M.V., Brown J.H., Riddle B. R., 2005: Biogeography. Sinauer Associates, 1-845 Plesník, P., Zatkalík, F., 1996: Biogeografia. Vysokoškolské skriptá, PríFUK Bratislava

### **Course language:**

Notes:

Course assessment Total number of assessed students: 944					
А	В	С	D	Е	FX
24.05	23.41	24.36	18.43	7.94	1.8
Provides: prof. RNDr. Ľubomír Kováč, CSc.					
Date of last modification: 05.10.2017					
Approved:					