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30. Genetics	
31. Healing Plants	
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38. Latin for Students of Biology	
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60. System Biology Modeling	
61. Zoogeography	
62. Zoology I	
63. Zoology II	

	Šafárik Universi				
Faculty: Faculty					
Course ID: CJP PFAJAKA/07	Course na	me: Academic	English		
Per week: 2 Pe	-	ours): 28			
Number of ECT	S credits: 2				
Recommended	semester/trimes	ter of the cours	se:		
Course level: I.,	II., N				
Prerequisities:					
epidemiological Presentation on Final evaluation Grading scale: A Learning outco	situation – onlin chosen topic (in - average assess A 93-100%, B 86 mes:	e) case of distance nent of test (40	in case of dist e learning - online %), essay (30%) %, D 72-78%, E e	e thorugh MS Tea and presentation	ams) (30%).
Brief outline of	the course:				
T. Armer :Camb M. McCarthy M Zemach, D.E, R Olsen, A. : Acti www.bbclearnin	nic Encounters, C pridge English for [., O'Dell F Ac umisek, L.A: Ac ve Vocabulary, Po	r Scientists, CU ademic Vocabu ademic Writing earson, 2013	lary in Use, CUP 5, Macmillan 2003		
Course languag English languag	e: e, level B2 accor	ding to CEFR.			
Notes:					
Course assessm Total number of	ent assessed student	s: 380			
А	В	С	D	Е	FX
			1	1	1
33.68	22.11	15.53	10.0	6.58	12.11
	22.11 Viktória Mária Sl		10.0	6.58	12.11

Approved:

INFORMATION I FTTFD TIDO

	CC	OURSE INFORM	IATION LET	TER	
University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH ANCH3/03	V/ Course na	ame: Analytical C	Chemistry		
Course type, sco Course type: Le 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	emester/trime	ster of the course	2: 4.		
Course level: I.					
Prerequisities:					
Conditions for c Oral Examination		ion:			
Learning outcon Fundamentals of		emistry for biolog	ists.		
by selective pre Volumetric meth Titration curves, Iodometry. Com	ccipitation. Quands. Preparat calculations i plexometry. Ar mentation and	antitative method ion of accurate n volumetric ana gentometry. Instru- applications) - el	ls. Gravimetry solutions. Inc lysis. Acidime umental metho	Qualitative analy y, general princip dication of equv etry, alkalimetry. ods of analytical c l, optical and sepa	les of method. ivalency point. Manganometry. chemistry (basic
Recommended li 1.D.Harvey: Moo 2.D.A.Skoog: Pri	iterature: dern Analytical inciples of Inst	Chemistry. McGi	. Saunders Col	l. Publishing, New	7 York 1985.
Course language					
Notes:					
Course assessme Total number of a		nts: 385			
A	В	C	D	E	FX
28.05	31.95	27.01	8.05	4.16	0.78
Provides: doc. R	NDr. Katarína l	Reiffová, PhD.		1	1
Date of last mod	ification: 03.03	5.2015			
Approved:					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE BZj/19	EV/ Course na	me: Animal Bio	logy		
Course type, sco Course type: Recommended Per week: Per Course method	course-load (h study period:				
Number of ECT	'S credits: 4				
Recommended s	semester/trimes	ster of the cours	e:		
Course level: I.					
Prerequisities: Ú ZOO1/03,ÚBEV		,ÚBEV/PMZ/10	,ÚBEV/FZ1/10,	ÚBEV/ZO1/03,Ú	BEV/
Conditions for c	ourse completi	on:		-	
Learning outcor	nes:				
Brief outline of t	the course:				
Recommended l	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 10			
A	В	С	D	Е	FX
10.0	20.0	30.0	20.0	20.0	0.0
Provides:					
Date of last mod	lification: 10.02	2.2020			
Approved:					

Fooulty Fooult		sity in Košice			
racuity: racuit	y of Science				
Course ID: ÚB FZ1/10	EV/ Course r	ame: Animal Phy	ysiology		
Recommende	Lecture / Practic d course-load (3 Per study per	e hours):			
Number of EC	FS credits: 7				
Recommended	semester/trim	ester of the cours	e: 6.		
Course level: I.					
Prerequisities:	ÚBEV/HIS1/15	and leboÚBEV/I	HISE1/15		
Conditions for Writen testing f	-	tion: and oral examination	ion		
levels of phylog	lents with basic genesis and with	knowledge about the principles of the to the environ	their control, air		
Brief outline of The physiolog					
metabolism an Physiology of the neurophysiology CNS. Association	siology. Physio d physiology ne endocrine sec y. Functions of ve functions of	nd hemopoletic logy of the gastro of nutrition. Wa retion. Physiology neurons and neur CNS. Functions notion. Work phys	ter and minera of reproduction. onal networks. S of the vegetative	The functions of household of Physiology of ex- ensory and moto nervous system	liver. Energetic the organism. ccretion.General pric functions of
metabolism an Physiology of th neurophysiolog CNS. Associati muscle contract Recommended Varder, A. J., Sl 1990 Schmidt, R. F.,	siology. Physio d physiology ne endocrine sec y. Functions of ve functions of ion and active r literature: herman, J. H., L Thews, G.: Hur	logy of the gastro of nutrition. Wa retion. Physiology neurons and neur CNS. Functions	intestinal tract. T iter and minera of reproduction. onal networks. S of the vegetative siology. Sensory e mechanisms of pringer-Verlag, 1	The functions of l household of Physiology of ex- ensory and moto e nervous system physiology body functions, 989	liver. Energetic the organism. ccretion.General pric functions of h. Physiology of
metabolism an Physiology of th neurophysiolog CNS. Associati muscle contract Recommended Varder, A. J., Sh 1990 Schmidt, R. F., R.W.Hill, R.Wy	siology. Physio d physiology ne endocrine sec y. Functions of ve functions of ion and active r literature: herman, J. H., L Thews, G.: Hur yse, M.Anderson	logy of the gastro of nutrition. Wa retion. Physiology neurons and neur CNS. Functions notion. Work phys uciano, D. S.: The nan Physiology, S	intestinal tract. T iter and minera of reproduction. onal networks. S of the vegetative siology. Sensory e mechanisms of pringer-Verlag, 1	The functions of l household of Physiology of ex- ensory and moto e nervous system physiology body functions, 989	liver. Energetic the organism. ccretion.General pric functions of h. Physiology of
metabolism an Physiology of th neurophysiolog CNS. Associati muscle contract Recommended Varder, A. J., Sl 1990 Schmidt, R. F.,	siology. Physio d physiology ne endocrine sec y. Functions of ve functions of ion and active r literature: herman, J. H., L Thews, G.: Hur yse, M.Anderson	logy of the gastro of nutrition. Wa retion. Physiology neurons and neur CNS. Functions notion. Work phys uciano, D. S.: The nan Physiology, S	intestinal tract. T iter and minera of reproduction. onal networks. S of the vegetative siology. Sensory e mechanisms of pringer-Verlag, 1	The functions of l household of Physiology of ex- ensory and moto e nervous system physiology body functions, 989	liver. Energetic the organism. ccretion.General pric functions of h. Physiology of
metabolism an Physiology of th neurophysiolog CNS. Associati muscle contract Recommended Varder, A. J., Sl 1990 Schmidt, R. F., R.W.Hill, R.Wy Course languag Notes: Course assessm	siology. Physio d physiology ne endocrine sec y. Functions of ve functions of tion and active r literature: herman, J. H., L Thews, G.: Hur yse, M.Anderson ge:	logy of the gastro of nutrition. Wa retion. Physiology neurons and neur CNS. Functions notion. Work phys cuciano, D. S.: The nan Physiology, S n : Animal Physio	intestinal tract. T iter and minera of reproduction. onal networks. S of the vegetative siology. Sensory e mechanisms of pringer-Verlag, 1	The functions of l household of Physiology of ex- ensory and moto e nervous system physiology body functions, 989	liver. Energetic the organism. ccretion.General pric functions of h. Physiology of
metabolism an Physiology of th neurophysiolog CNS. Associati muscle contract Recommended Varder, A. J., Sh 1990 Schmidt, R. F., R.W.Hill, R.Wy Course languag Notes:	siology. Physio d physiology ne endocrine sec y. Functions of ve functions of tion and active r literature: herman, J. H., L Thews, G.: Hur yse, M.Anderson ge:	logy of the gastro of nutrition. Wa retion. Physiology neurons and neur CNS. Functions notion. Work phys cuciano, D. S.: The nan Physiology, S n : Animal Physio	intestinal tract. T iter and minera of reproduction. onal networks. S of the vegetative siology. Sensory e mechanisms of pringer-Verlag, 1	The functions of l household of Physiology of ex- ensory and moto e nervous system physiology body functions, 989	liver. Energetic the organism. ccretion.General pric functions of h. Physiology of

Provides: doc. RNDr. Monika Kassayová, CSc., prof. RNDr. Beňadik Šmajda, CSc., doc. RNDr. Bianka Bojková, PhD., RNDr. Vlasta Demečková, PhD., RNDr. Terézia Kisková, PhD., RNDr. Natália Pipová, PhD.

Date of last modification: 29.06.2021

Approved:

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ SBPa/15	Course name: Bachelo	r Thesis Seminar
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period: esent	
Number of ECTS cr		
	ster/trimester of the co	urse: 5.
Course level: I.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	ourse:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 144	
	abs	n
	99.31	0.69
Provides:		
Date of last modifica	ition:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ SBPb/15	Course name: Bachelor T	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: 6.	
Course level: I.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 144		
	abs	n	
	94.44	5.56	
Provides:			
Date of last modifica	ition:		
Approved:			

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBI BPO/14	EV/ Course na	me: Bachelor Th	nesis and its Def	fence	
Course type, sco Course type: Recommended Per week: Per Course methoo	- l course-load (h r study period:				
Number of ECT	S credits: 4				
Recommended	semester/trimes	ter of the course	2.		
Course level: I.					
Prerequisities:					
Conditions for a	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Notes:					
Course assessm Total number of	ent `assessed studen	ts: 270			
А	В	С	D	Е	FX
50.0	28.15	15.93	3.7	1.85	0.37
Provides:				•	
Date of last mod	lification: 02.12	.2015			
Approved:					

University: P. J. S	Šafárik Universi	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚMV SMP/10	// Course na	me: Basic statis	stics for sciences		
Course type, sco Course type: Le Recommended Per week: 1 / 2 Course method	cture / Practice course-load (he Per study perio	ours):			
Number of ECT	S credits: 3				
Recommended s	emester/trimes	ter of the cours	se: 3.		
Course level: I.					
Prerequisities:					
Conditions for co Given on the bas	-		ritten exam.		
Learning outcon Understanding ba		ive statistics use	ed in sciences.		
 Data types. Free Measures of loc Basic probabilit Point and interv Testing of basic Measuring the s 	ation and varial y distributions. al estimators. statistical hypo	otheses. Power c			
Recommended li • Wonnacott, Wo • Statsoft's <a hre<br="">2014	terature: nnacott: Introdu	ctory Statistics,		nic Statistics Text	book,
Course language Slovak	:				
Notes:					
Course assessme Total number of a	-	ts: 144			
А	В	С	D	Е	FX
7.64	9.72	13.19	19.44	35.42	14.58
Provides: prof. R	NDr. Ivan Žežu	ıla, CSc.			
Date of last mod	fication: 03.05	.2015			

University: P. J. Safárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: ÚCHV/	Course name: Biochemistry				

Course ID: UCHV/ Course name: Biochemistry BCHU/03

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities: ÚCHV/VCHU/10 and leboÚCHV/VCHU/15 and leboÚCHV/VACH/10 and leboÚCHV/VCHU/14

Conditions for course completion:

test + oral examination

Learning outcomes:

The aim of biochemistry teaching is to acquire knowledge in the field of living organisms on the basis of their molecular structure and metabolism.

Brief outline of the course:

- 1. Protein Structure and Function, Exploring proteins
- 2. DNA and RNA and the Flow of Genetic Information, Exploring genes
- 3. Enzymes: Basic Concepts and Kinetics, Catalytic Strategies and Regulatory Strategies
- 4. Carbohydrates (Monosaccharides, Disaccharides, Polysaccharides Functions and Properties)
- 5. Lipids and Cells Membranes, Membrane Channels and Pumps
- 6. Metabolis: Basic Concepts and Design, Signal-Transduction Pathways
- 7. Glycolysis and Gluconeogenesis, Glycogen Metabolism
- 8. The Citric Acid Cycle and Glyoxylate Cycle
- 9. Oxidative Phosphorylation, The Light Reactions of Photosyntesis
- 10. The Calvine Cycle and the Pentose Phosphate Pathway
- 11. Fatty Acids Metabolism, Urea Cycle
- 12. DNA Replication, Transcription (RNA Synthesis)
- 13. Protein Synthesis & Degradation, the Integration of Metabolism

Recommended literature:

Škárka: Biochémia. Alfa, 1992

Voet a Voetová: Biochemie. Victoria Publishing, Praha, 1994

Stryer, L.: Biochemistry, W.H. Freeman and Company, New York, 1988

Course language:

Notes:

Course assessm Total number of	ent f assessed studen	ts: 1221					
А	В	С	D	Е	FX		
19.66	16.87	20.88	20.88	19.08	2.62		
Provides: doc. 1	RNDr. Erik Sedlá	ik, DrSc., RNDr.	Nataša Tomáško	ová, PhD.			
Date of last modification: 03.05.2015							
Approved:	Approved:						

University: P. J	. Šafárik Univers	sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚC PBC2/99	HV/ Course na	ame: Biochemist	ry Practical		
Course type: I Recommended	d course-load (h er study period:	ours):			
Number of EC	ΓS credits: 4				
Recommended	semester/trimes	ster of the cours	e: 3.		
Course level: I.					
Prerequisities:					
Learning outco To allow studen used in a bioche electrophoresis, quantitative and Brief outline of The most imp	nts to get practic emical research: U , isolation of mail d qualitative deter 7 the course: ortant biochemic	al experience in UV/VIS spectrop cromolecules and rmination.	hotometry, thin d substances fro nethods. The q	echniques and me layer chromatogr om biological ma qualitative tests f	aphy (TLC), generation in the second se
activity, determ effect of a subs	ination of the fi	rst order rate co on on initial rate	nstant, calculati	ction: determination ions of math moo termination of Kr	dels (examples)
		· •		ses from biochem	istry, 2007,
Course languag	ge:				
Notes:					
Course assessm Total number of	ent f assessed studen	ts: 847			
А	В	С	D	Е	FX
57.62	25.62	10.27	4.6	1.65	0.24

Approved:

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚBE BFP1/99	EV/ Course na	V/ Course name: Biophysical principles of physiological processes					
	ecture course-load (h r study period:	ours):					
Number of ECT	S credits: 3						
Recommended s	semester/trimes	ster of the course	e : 6.				
Course level: I.							
Prerequisities:							
Conditions for c Oral examinatio		on:					
in animals Brief outline of	tudents with kno	eory and theory of					
mechanisms of	cell excitability. rt and lungs. P	ele contraction. P Biomechanics o hysiological aco diation.	f bones and join	nts. Physical prin	ciples of bloo		
Recommended Berne, L.: Princi		ogy. Mosby, 1990					
Course languag	e:						
Course languag Notes:	e:						
0 0	ent	ts: 196					
Notes: Course assessme	ent	ts: 196 C	D	E	FX		
Notes: Course assessme Total number of	ent assessed studen		D 14.8	Е 21.94	FX 10.71		
Notes: Course assessme Total number of A 8.67	ent assessed studen B 20.41	С	14.8	21.94			
Notes: Course assessme Total number of A 8.67	ent assessed studen B 20.41 RNDr. Beňadik S	C 23.47 Šmajda, CSc., RN	14.8	21.94			

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE BS1/03	V/ Course na	ame: Biostatistic	S		
Course type, sco Course type: Le 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	emester/trime	ster of the cours	e: 3.		
Course level: I.					
Prerequisities:					
Conditions for c Written test after Final test (solution	the 7th week.		wledge)		
their scope of ap of the design of e Brief outline of t Sources and the Descriptive statis empirical distribution One-way and mut Correlations. Not	idents with kno plication in sta experiments, as he course: oretical backgr stics: variables, ations. Experin iltiple analysis n-parametrical	tistical evaluation well. ound of biostatis measures of me nental sampling f of variance. Test	n of experimenta stics. Basic prin an value and va rom normal dist s for multiple co	istic methods use al results, and wit ciples of the pro- riability of data. tributions. Testing omparisons. Regr f quantitative data	bability theory Theoretical and g of hypotheses ression analysis
	Inderstanding b Cochran,W.G.: Lee, M.Hernan	Statistical metho	ds. The Iowa sta	991 te university, Am ign, analysis and	
Course language	•				
Notes:					
Course assessme		nts: 212			
Total number of	assessed studen				
	B	C	D	Е	FX
Total number of		C 16.98	D 25.0	E 33.02	FX 12.26
Total number of a	B 8.49	16.98			

Approved:

	itarik Univers	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: ÚBEV BO1/03	Course na	ame: Botany I			
Course type, scope Course type: Lec Recommended co Per week: 2 / 2 Pe Course method: 1	ture / Practice ourse-load (h er study peri	e ours):			
Number of ECTS	credits: 5				
Recommended ser	nester/trimes	ster of the cours	e: 1.		
Course level: I.					
Prerequisities:					
Conditions for cou	ırse completi	on:			
Learning outcome Introduction to bio		plants.			
Heterocontophyta, Chlorophyta). Sl Labyrinthulomyco Ascomycota, Basic Literature: Deacon, J.W. (199 Recommended lite	ime moulds ta). Fungi (C diomycota). L 8) Modern M	(Plasmodiophoro omycota, Hypho ichens. Bryophy ycology. Blackwo	omycota, Dictyc ochytriomycota, tes.	osteliomycota,	Acrasiomycota,
Bačkor, M.: Základ Deacon, J.W. (199	8) Modern M	ycology. Blackw	ell Science Ltd.		šice 2002;
Bačkor, M.: Základ	8) Modern M a kol. 1995: A	ycology. Blackwo lgae, an introduc	ell Science Ltd. ction to phycolog	у,	šice 2002;
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a	8) Modern M a kol. 1995: A	ycology. Blackwo lgae, an introduc	ell Science Ltd. ction to phycolog	у,	šice 2002;
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a Záhorovská E. a ko	8) Modern M a kol. 1995: A	ycology. Blackwo lgae, an introduc	ell Science Ltd. ction to phycolog	у,	šice 2002;
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a Záhorovská E. a ko Course language:	8) Modern M a kol. 1995: A ol.: Systém a c	ycology. Blackwo Igae, an introduc evolúcia nižších n	ell Science Ltd. ction to phycolog	у,	šice 2002;
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a Záhorovská E. a ko Course language: Notes: Course assessmen	8) Modern M a kol. 1995: A ol.: Systém a c	ycology. Blackwo Igae, an introduc evolúcia nižších n	ell Science Ltd. ction to phycolog	у,	šice 2002; FX
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a Záhorovská E. a ko Course language: Notes: Course assessmen Total number of as	8) Modern M a kol. 1995: A ol.: Systém a c t ssessed studen	ycology. Blackwo Ilgae, an introduc evolúcia nižších ts: 1761	ell Science Ltd. ction to phycolog rastlín. UK Bratis	y, slava 1998	
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a Záhorovská E. a ko Course language: Notes: Course assessmen Total number of as A	8) Modern My a kol. 1995: A ol.: Systém a c t ssessed studen B 19.48	ycology. Blackwe Ilgae, an introduc evolúcia nižších r ts: 1761 C 25.44	ell Science Ltd. etion to phycolog rastlín. UK Bratis D 20.05	y, slava 1998 E 18.63	FX
Bačkor, M.: Základ Deacon, J.W. (199 Van den Hoek, C. a Záhorovská E. a ko Course language: Notes: Course assessmen Total number of as A 13.91	8) Modern My a kol. 1995: A ol.: Systém a c t sessed studen B 19.48 IDr. Martin Ba	ycology. Blackwe Ilgae, an introduc evolúcia nižších f ts: 1761 C 25.44 ačkor, DrSc., RN	ell Science Ltd. etion to phycolog rastlín. UK Bratis D 20.05	y, slava 1998 E 18.63	FX

University: P. J. Šafár	ik University in Košice
Faculty: Faculty of Sc	cience
Course ID: ÚBEV/ BOT1/03	Course name: Botany II
Course type, scope an Course type: Lecture Recommended cour Per week: 2 / 2 Per s Course method: pres	e / Practice se-load (hours): study period: 28 / 28
Number of ECTS cre	edits: 5
Recommended semes	ster/trimester of the course: 2.
Course level: I.	
Prerequisities:	
Conditions for course Practical and theoretic	±
Learning outcomes: To obtain of survey in	knowledge and methods in systematics of tracheophytes.
cladistics and molecu plants. Gymnosperms Evolution and general and Caryophyllid clad Practices are devoted of ferns and allies fre conifers. Selected fam	burse: ime of plant systematics. Approaches to plant classification. Principles of ilar taxonomy. Tracheophytes, clades of lycophytes, ferns and allies. Seed and their evolution: cycads, ginkgos, conifers, gnetophytes. Angiosperms. description. Basal clades and Magnoliid clade. Monocots. "Basal tricolpates" le. Rosid and asterid clades of tricolpates. to study of the most important families of tracheophytes. Fossil evidence om Palaeozoic age. Tropical a subtropical flora. Ferns. Practical study of ilies of angiosperms. (<i>Magnoliaceae, Araceae, Liliaceae, Amaryllidaceae, Ranunculaceae, Papaveraceae, Caryophyllaceae, Euphorbiaceae, Violaceae,</i>

Recommended literature:

Mártonfi P.: Systematika cievnatých rastlín, 2. vydanie. - ES UPJŠ, Košice, 2006.

Mártonfi P.: Systematika cievnatých rastlín. - ES UPJŠ, Košice, 2003.

Judd W. S., Campbell Ch. S., Kellogg E. A. & Stevens P. F., Donoghue M. J.: Plant Systematics. A phylogenetic Approach, 2nd ed. - Sinauer Associates, Sunderland, 2002.

Fabaceae, Rosaceae, Betulaceae, Brassicaceae, Boraginaceae, Plantaginaceae, Lamiaceae,

Apiaceae, Asteraceae</i>). Study of other seed plants, plant identification according to key.

Dostál J., Červenka M.: Veľký kľúč na určovanie rastlín I. a II. - SPN, Bratislava, 1991 a 1992.

Course language:

Notes:

Course assessm Total number of	nent f assessed studen	ts: 1547				
А	В	С	D	Е	FX	
11.18	12.73	17.52	19.84	24.05	14.67	
Provides: prof.	RNDr. Pavol Má	rtonfi, PhD., Mg	r. Vladislav Kola	určik, PhD.		
Date of last mo	Date of last modification: 03.05.2015					
Approved:						

		sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH CHV1/99	IV/ Course n	ame: Chemical c	alculations		
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	ractice course-load (h r study period	nours):			
Number of ECT	'S credits: 2				
Recommended s	semester/trime	ster of the cours	e: 1.		
Course level: I.					
Prerequisities:					
Conditions for c Short written tes Written test.	-	ion:			
	ts how to calcu	ulate material ba examples concern	•		ithout chemical
Brief outline of t Expression of the Material bilances	he clear matter	r amount and th	•		metric formula.
Material bilances	s for combined	n, dissolving and r processes. Chemi Base equilibrium	cal equations and	l material bilance	ing of mixtures. s in the systems
Material bilances with chemical pr and solubility. Recommended I	s for combined rocesses. Acid- iterature:	processes. Chemi	cal equations and and the pH calo	l material bilance culations. The so	ing of mixtures. s in the systems lubility product
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che	s for combined rocesses. Acid- iterature: mické výpočty	processes. Chemi Base equilibrium	cal equations and and the pH calo	l material bilance culations. The so	ing of mixtures. s in the systems lubility product
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che Košice, 2006.	s for combined rocesses. Acid- iterature: mické výpočty	processes. Chemi Base equilibrium	cal equations and and the pH calo	l material bilance culations. The so	ing of mixtures. s in the systems lubility product
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che Košice, 2006. Course language	s for combined rocesses. Acid- iterature: mické výpočty e: ent	processes. Chemi Base equilibrium vo všeobecnej a	cal equations and and the pH calo	l material bilance culations. The so	ing of mixtures. s in the systems lubility product
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che Košice, 2006. Course language Notes: Course assessme	s for combined rocesses. Acid- iterature: mické výpočty e: ent	processes. Chemi Base equilibrium vo všeobecnej a	cal equations and and the pH calo	l material bilance culations. The so	ing of mixtures. s in the systems lubility product
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che Košice, 2006. Course language Notes: Course assessme Total number of	s for combined rocesses. Acid- iterature: mické výpočty e: ent assessed studer	processes. Chemi Base equilibrium vo všeobecnej a nts: 1440	cal equations and and the pH calc anorganickej ché	l material bilance culations. The so mii (skriptum), F	ing of mixtures. s in the systems lubility product PF UPJŠ,
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che Košice, 2006. Course language Notes: Course assessme Total number of A	s for combined rocesses. Acid- iterature: mické výpočty e: ent assessed studer B 19.44	processes. Chemi Base equilibrium vo všeobecnej a nts: 1440 C 24.1	cal equations and and the pH calc anorganickej ché D 20.21	emii (skriptum), F E 12.99	ing of mixtures. s in the systems lubility product PF UPJŠ, FX
Material bilances with chemical pr and solubility. Recommended I Potočňák I.: Che Košice, 2006. Course language Notes: Course assessme Total number of A 22.5	s for combined rocesses. Acid- iterature: mické výpočty e: ent assessed studer B 19.44 Martin Vavra,	processes. Chemi Base equilibrium vo všeobecnej a nts: 1440 C 24.1 PhD., doc. RND	cal equations and and the pH calc anorganickej ché D 20.21	emii (skriptum), F E 12.99	ing of mixtures. s in the systems lubility product PF UPJŠ, FX

University: P. J. Šat	čárik University in Košice
Faculty: Faculty of	Science
Course ID: CJP/ PFAJKKA/07	Course name: Communicative Competence in English
Course type, scope Course type: Prac Recommended co Per week: 2 Per st Course method: c	tice urse-load (hours): rudy period: 28
Number of ECTS of	redits: 2
Recommended sem	ester/trimester of the course:
Course level: I., II.,	N
Prerequisities:	
two classes at the m Online teaching (M 2 credit tests (presu The tests will be ta classes.	in class and completed homework assignments. Students are allowed to miss
-	If be sent to the course instructor as a video recording.

Final evaluation consists of the scores obtained for the 2 tests (70%) and the presentation (30%). Final grade will be calculated as follows: A 93-100 %, B 86-92%, C 79-85%, D 72-78%, E 65-71%, FX 64 % and less.

Learning outcomes:

Uplatnenie a aktívne používanie svojich teoretických vedomostí v praktických komunikačných situáciách. Zdokonalenie jazykových vedomostí a zručností študenta, rečovej, pragmatickej a vecnej kompetencie, predovšetkým zlepšujú komunikáciu, schopnosť prijímať a formulovať výpovede, efektívne vyjadrovať svoje myšlienky ako aj orientovať sa v obsahovom pláne výpovede. Precvičovanie rečových intencií kontaktných (napr. pozdravy, oslovenia, pozvanie, oslovenie), informatívnych (napr. získavanie a podávanie informácií, vyjadrenie priestorových a časových vzťahov), regulačných (napr. prosba, poďakovanie, zákaz, pochvala, súhlas, nesúhlas) a hodnotiacich (napr. vyjadrenie vlastného názoru, stanoviska, želania, emócií). Výsledkom budovania praktickej jazykovej kompetencie majú byť vedomosti a zručnosti zodpovedajúce požiadavkám a kritériám dokumentu Spoločný európsky referenčný rámec pre vyučovanie jazykov.

Brief outline of the course:

Rodina, jej formy a problémy Vyjadrovanie pocitov a dojmov Dom, bývanie a budúcnosť Formy a dialekty v anglickom jazyku Život v meste a na vidieku Kolokácie a idiomy, zaužívané slovné spojenia Prázdniny a sviatky vo svete

Žiesto (nasta die e staticie	
Životné prostredie a ekológia Výnimky zo slovosledu	
Frázové slovesá a ich použitie	
Charakteristiky neformálneho diškurzu	
Recommended literature:	
www.bbclearningenglish.com	
McCarthy M., O'Dell F.: English Vocabulary in Use, Upper-Intermediate. CUP, 1994.	
Misztal M.: Thematic Vocabulary. SPN, 1998.	
Fictumova J., Ceccarelli J., Long T.: Angličtina, konverzace pro pokročilé. Barrister and	
Principal, 2008.	
Peters S., Gráf T.: Time to practise. Polyglot, 2007.	
Jones L.: Communicative Grammar Practice. CUP, 1985.	
Alexander L.G.: Longman English Grammar. Longman, 1988.	
Course language: English language, B2 level according to CEFR	
Notes:	
Course assessment Total number of assessed students: 260	
A B C D E FX	
40.38 22.31 18.85 8.85 6.54 3.08	
Provides: Mgr. Barbara Mitríková, Mgr. Zuzana Naďová	
Date of last modification: 11.02.2021	
Approved:	

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: CJP PFAJGA/07	/ Course na	me: Communica	ative Grammar in	n English	
Course type: F Recommended Per week: 2 Pe	ope and the met Practice I course-load (h er study period: d: combined, pre	ours): 28			
Number of ECT	FS credits: 2				
Recommended	semester/trimes	ster of the cours	e:		
Course level: I.,	II., N				
Prerequisities:					
week), no retak	te. Final evaluati 5%, D 72-78%,		essment of tests	tted). 2 test (5th/ s. Grading scale:	
Brief outline of					
McCarthy, O'De C. Oxengen, C.	nillan Grammar ell: English Voca Latham-Koenig: ematic Vocabular	in Context, Macı bulary in Use, C New English Fi y, Fragment, 199	UP, 1994 le Advanced, Ox	xford 2010	
Course languag					
Notes:					
Course assessm Total number of	ent fassessed studen	ts: 406			
	D	С	D	Е	FX
A	В				17
ĺ	B 18.97	16.75	8.62	5.91	10.1
A 39.66			8.62	5.91	
A 39.66 Provides: Mgr. 1	18.97	vá	8.62	5.91	

University: P. J. Šaf	ärik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: KGER/ NJKG/07	Course na	me: Communica	tive Grammar i	in German Langua	ige
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: pr	ice 1rse-load (h udy period:	ours):			
Number of ECTS c	redits: 2				
Recommended sem	ester/trimes	ster of the course	2.		
Course level: I., II.					
Prerequisities:					
Conditions for cour	·se completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 54			
A	В	С	D	Е	FX
59.26	11.11	9.26	3.7	9.26	7.41
Provides: Mgr. Blan	ka Jenčíkov	á			
Date of last modific	ation: 03.05	5.2015			
Approved:					

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE PMZ/10	V/ Course na	me: Comparati	ve Animal Morpl	hology	
Course type, scop Course type: Le Recommended Per week: 2 / 1 1 Course method:	cture / Practice course-load (ho Per study perio	ours):			
Number of ECTS	S credits: 4				
Recommended se	emester/trimes	ter of the cours	se: 3.		
Course level: I.					
Prerequisities:					
Conditions for co Lectures and pra- examination.	-		ing of some part	s of animal body	or it derivates
Learning outcom	ies:				
Brief outline of t	he course:				
Recommended li Kardong, K. V., 2 Hill, New York. Pough, F. H., Jan edition. Ruppert, E. E., Fo approach. Belmon	002: Vertebrate is, Ch. M., Heis ox, R. S., & Bar	er, J. B., 2008: nes, R. D., 2004	Vertebrate Life. I	Prentice Hall, Inc.	, 752 pp. 8th
Course language	:				
Notes:					
Course assessme Total number of a		s: 1970			
A	В	С	D	Е	FX
17.36	18.88	24.77	21.78	12.28	4.92
Provides: doc. RI	NDr. Andrej Mc	ock, PhD., RND	r. Andrea Parimu	uchová, PhD.	
Date of last modi	fication: 03.05	.2015			

		sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚBE OPR/12	EV/ Course name: Conservation Biology						
Course type, sco Course type: La Recommended Per week: 2 / 0 Course method	ecture / Practice course-load (h Per study peri	e iours):					
Number of ECT	S credits: 3						
Recommended s	emester/trime	ster of the cours	e: 3.				
Course level: I.,	II.						
Prerequisities:							
Conditions for c Examination.	ourse complet	ion:					
Learning outcom The main goal of species, populati	the subject is to the subject is to the subject is		• • •	cipal threats and	conservation of		
Brief outline of t Fundamental and hotspots on Earth Factors leading to of populations ar of protected area to conservation of	d origin of con a. Economic val b biodiversity th ad species, cons as, conservation	ue of biodiversity reats. Extinction servation program	y as the principal s and problems of ns and strategies.	argument of natu Ssmall populatior Classification a	re conservation ns. Conservation nd management		
Recommended l		of conservation b	biology. Sinauer A	Associates, 1-603			
Primack R.B., 20					3		
					3		
Course language					3		
Course language Notes:	ent	nts: 694			3		
Course language Notes: Course assessme	ent	nts: 694	D	E	FX		
Course language Notes: Course assessme Total number of	ent assessed studer	r	D 2.16	E 0.43	1		
Course language Notes: Course assessme Total number of A 74.78	ent assessed studer B 14.7	C 7.2			FX		
Course language Notes: Course assessme Total number of A	ent assessed studer B 14.7 2NDr. Ľubomír	C 7.2 Kováč, CSc.			FX		

University: P. J. Šafár	ik University in Košice						
Faculty: Faculty of So	cience						
Course ID: ÚBEV/ PPR/15	1 1						
Course type, scope an Course type: Lecture Recommended cour Per week: 0 / 2 Per s Course method: pre	e / Practice rse-load (hours): study period: 0 / 28						
Number of ECTS cre	edits: 3						
Recommended semes	ster/trimester of the cours	e: 4., 6.					
Course level: I.							
Prerequisities:							
Conditions for cours Students will gain pra	-	ivation of experimental plants.					
Learning outcomes: Practical skills concer	ming cultivation of experim	ental plants.					
Brief outline of the co In vitro techniques, hy	ourse: ydroponics, sowing and cult	ivation of plants in a field.					
Recommended litera	ture:						
Course language:							
Notes:							
Course assessment Total number of asses	sed students: 81						
abs n							
(98.77 1.23						
Provides: RNDr. Vero	onika Petruľová, PhD.						
Date of last modifica	tion: 12.02.2016						
Approved:							

	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ CYT1/15	Course name: Cytology
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 28
Number of ECTS cr	edits: 6
Recommended seme	ster/trimester of the course: 1.
Course level: I.	
Prerequisities:	
Conditions for cours Practicals graduation each); Oral examinat Learning outcomes:	(without absence); Two written tests graduation (min. 70 % fruitfulness of
0	nts with knowledge of basic principles of cell microscopic and submicroscopic n.
of substances across Extracellular matrix. nucleus. 10.) Mitoche Endoplasmic reticulu Pathological changes Exercises: 1.) Safety at work in exercises. 2.) Basics a microscope. 3.) Mid and confocal microso nucleolus. 9.) Cytopla	 2.) Organization of living systems. 3.) Biological membranes. 4.) Transfer membranes. 5.) Cell wall of plant cells. 6.) Surface structures of cells. Cell movement. 7.) Intercellular connections. 8.) Cytoskeleton. 9.) Cell ondria and cellular metabolism. 11.) Plastids and vacuoles. 12.) Ribosomes. m. Golgi apparatus. Lysosomes. 13.) Differentiation, aging and cell death. 14.) in cells. n a cytomorphological laboratory. Conditions for successful completion of of optics. Origin and construction of the image with a magnifying glass and croscopic technique. 4.) Shape and size of cells. 5.) Principle of fluorescence copy. 6.) Control test. Vacuole. 7.) Cytoplasm movement. 8.) Nucleus and asmic membrane. 10.) Osmotic processes. 11.) Cell inclusions. 12.) Cell walls
of plant cells. 13.) Ce	ell counting. 14.) Control test. Final evaluation.

Course language:

Notes:

Course assessment Total number of assessed students: 754							
А	A B C D E FX						
11.54	19.89	32.63	20.03	15.25	0.66		
Provides: doc. RNDr. Rastislav Jendželovský, PhD., RNDr. Zuzana Jendželovská, PhD., RNDr. Jana Vargová, PhD.							
Date of last modification: 16.07.2021							
Approved:							

University: P. J. Šafa	árik University in Košice					
Faculty: Faculty of S	Science					
Course ID: CJP/ Course name: English Language of Natural Science PFAJ4/07						
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ice irse-load (hours): udy period: 28					
Number of ECTS c	redits: 2					
Recommended sem	ester/trimester of the course: 4.					
Course level: I.						
Prerequisities:						
Active participation classes at the most (i Continuous assessm 13) and academic pr In order to be admit credit tests. The exam test results represent the other 5 The final grade for t	se completion: y (Online through MS teams) - based on the sylabus in class and completed homework assignments. Students are allowed to miss 2 in case of online form - not attending online class/ assignments not handed in) ent: 2 credit tests taken thorugh MS Teams online(presumably in weeks 6 and esentation in English given through MS Teams online. tted to the final exam, a student has to score at least 65 % as a sum of both s represent 50% of the final grade for the course, continuous assessment results 0% of the final grade. he course will be calculated as follows: C 79-85, D 72-78, E 65-71, FX 64 and less.					
in English for specifi with selected phonol competence (familia	dents' language skills (speaking, writing, reading and listening comprehension) ic purposes and development of students' language competence (familiarization logical, lexical and syntactic phenomena), improvement of students' pragmatic arization with selected language functions) and improvement of presentation EFR) with focus on terminology of English for natural science.					
 Talking about aca Discussing science Defining scientified Expressing cause Describing structure Explaining process 	adying language of scientific language demic study e c terminology and concepts and effect ares sses ts, structures and concepts oblem and solution					

10 0' '					
12. Giving exar 13. Visual aids	1				
-	g time and place pics related to stud	dants'study field	la		
-			15.		
Recommended					
5	provided by the o				
· · · ·	glish Vocabulary	in Use, Pre-inter	rmetdiate, Intern	nediate. Cambrid	ge University
Press, 2003.					
	bridge English fo				
	ademic Encounter		,		
	glish Grammar ir	-	•	ss, 1994.	
-	English for ICT st		-		
-	vice/learningengl	lish, https://spect	tator.sme.sk		
www.isllibrary.	com				
Course languag	ge:				
Notes:					
Course assessm	ient				
Total number of	f assessed student	ts: 2744			
А	В	С	D	Е	FX
38.16	25.4	16.65	9.73	7.87	2.19
Provides: Mgr.	Lenka Klimčákov	vá, Mgr. Viktória	a Mária Slovensk	ká, Mgr. Zuzana	Naďová
Date of last mo	dification: 14.02	.2021			

University: P. J.	Šafárik Univers	sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚBI EF1/03	EV/ Course name: Experimental methods in physiology						
Recommended	ecture / Practice l course-load (h 2 Per study peri	e Iours):					
Number of ECT	FS credits: 5						
Recommended	semester/trime	ster of the cours	e: 4.				
Course level: I.							
Prerequisities:							
Conditions for Recognition of J Oral and practic	practical skills.	ion:					
Learning outco To explain the b of animals durir	asic rules of bre	•	oty animals and o	of the criteria of o	correct handling		
traits of commo animal breeding animals: genetic	al animal, the la nly used laborat g. The influence e determinants, s	tory animals. Ger of internal and ex, social and be	netics of lab. ani external factors havioral factors.	cs of animal bree imals. Microbiolo on health state a The influence of n of experiments.	ogical criteria o and reactivity o physical factors		
Recommended	literature:						
Course languag	je:						
Notes:							
Course assessm Total number of		nts: 175					
А	В	C	D	Е	FX		
48.0	31.43	16.0	3.43	0.57	0.57		
	I/ 0/11 00						
Provides: RND	: Jan Galik, CSC						
Provides: RNDi Date of last mod	,						

		UNSE INFUR					
University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚBE ETB1/99							
Course type, sco Course type: P Recommended Per week: 4 Pe Course method	ractice course-load (h r study period:	ours):					
Number of ECT	S credits: 4						
Recommended s	semester/trimes	ster of the cours	e: 6.				
Course level: I.	· · · · · · · · · · · · · · · · · · ·						
Prerequisities: (ÚBEV/CYT1/15						
Conditions for c	ourse completi	on:					
Learning outcom To provide the s		knowledge of ba	sic experimenta	l techniques in bio	ology.		
Brief outline of Manipulation we research method	ith laboratory a	nimals. Narcotiz	ing of the anim	als. Operating tec	chniques. Basic		
Recommended I Zutphen, L. F. M Elsevier, Amster	I., Baumans, V.,	Beynen, A. C.: I	Principles of Lal	poratory Animal S	cience.		
Course languag	e:						
Notes:							
Course assessme Total number of		ts: 201					
A	В	С	D	E	FX		
48.76	14.43	14.43	4.98	15.92	1.49		
Kisková, PhD., N	Agr. Vladislav K D., RNDr. Natá	lolarčik, PhD., do	oc. RNDr. Juraj	šová, PhD., RND Ševc, PhD., doc. I onika Kassayová,	RNDr. Rastislav		
Date of last mod	lification: 07.02	2.2017					
Approved:							

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ TCZ/03	Course name: Fieldwork f	rom zoology
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre Number of ECTS cre	ce r se-load (hours): y period: 5d esent	
Recommended seme	ster/trimester of the cours	e: 6.
Course level: I.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes: Practical observation	of morphology of vertebrat	es.
	ogenetic relationships of ve	ertebrate. Review of important groups of fishes, vation, and laboratory work.
Recommended litera	ture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 961	
	abs	n
	99.38	0.62
Provides: RNDr. Pete PhD.	er Ľuptáčik, PhD., doc. RNI	Dr. Andrej Mock, PhD., doc. RNDr. Marcel Uhrin,
Date of last modifica	tion: 03.05.2015	
Approved:		

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ TCB1/03					
Course type, scope a Course type: Practic Recommended cou Per week: Per stud Course method: pre	ce rse-load (hours): l y period: 5d				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	e: 2.			
Course level: I.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes: Study of methods for	identification and determin	ation of common central-europaean plants.			
Brief outline of the c Plant identification in		termination. Floristic records.			
Kubát K. (ed.): Klíč Marhold K. a Hindák vascular and vascular	M.: Veľký kľúč na určovanie ke květeně České republiky.	vyšších rastlín Slovenska. Checklist of non- Bratislava 1998.			
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 1252				
	abs	n			
	99.92	0.08			
Provides: prof. RND Kolarčik, PhD.	r. Pavol Mártonfi, PhD., pro	f. RNDr. Martin Bačkor, DrSc., Mgr. Vladislav			
Date of last modifica	ition: 03.05.2015				

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚCHV VACH/10	/ Course na	me: General and	l Inorganic Cher	nistry	
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ure / Practice ourse-load (h er study perio	ours):			
Number of ECTS	credits: 6				
Recommended sen	nester/trimes	ster of the cours	e: 1.		
Course level: I.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of ass		ts: 367			
A	В	С	D	Е	FX
20.16	25.61	28.61	18.8	5.99	0.82
Provides: doc. RNI	Dr. Mária Rel	náková, CSc., doo	e. RNDr. Zuzana	Vargová, Ph.D.	
Date of last modifi	cation: 03.05	5.2015			
Approved:	,				

	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚBEV VB1/01	V/ Course na	me: General bo	tany		
Course type, scop Course type: Le Recommended o Per week: 3 / 2 1 Course method:	cture / Practice course-load (h Per study perio	ours):			
Number of ECTS	S credits: 6				
Recommended se	emester/trimes	ter of the cours	se: 2.		
Course level: I.					
Prerequisities: Ú	BEV/CYT1/15				
Conditions for co	ourse completi	on:			
Learning outcom This subject enab to enhance studen Brief outline of th The structure and and organization. that are necessary organs and function	les to understan it's ability to de he course: function of plant Plant reproduce y for understant ons plant organ	ant cells and tise ction and ground ding of relation	gical role of plan sues. Plant organ ding in embryolo	nts for life on eart s, their structure, ogy. Basic inform	h. function, shape nation and terms
Recommended lit	terature:				
Course language	:				
Course languages	:				
	nt	ts: 1038			
Notes: Course assessmen	nt	ts: 1038 C	D	E	FX
Notes: Course assessmen Total number of a	nt Issessed studen		D 15.61	E 8.0	FX 2.7
Notes: Course assessmen Total number of a A	nt issessed studen B 27.26	C 28.9	15.61	8.0	2.7
Notes: Course assessmen Total number of a A 17.53 Provides: prof. R	nt Issessed studen B 27.26 NDr. Pavol Má	C 28.9 rtonfi, PhD., Mg	15.61	8.0	2.7

University: P. J. Šaf	árik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ GE1/10	Course na	me: Genetics			
Course type, scope Course type: Lectu Recommended cou Per week: 3 / 3 Per Course method: pr	ire / Practice irse-load (h study perio	ours):			
Number of ECTS c	redits: 7				
Recommended sem	ester/trimes	ster of the cours	e: 5.		
Course level: I.					
Prerequisities: ÚBE	EV/MB1/01 a	and leboÚBEV/N	AOB1/03 and le	boÚBEV/MOB1/	/15
Conditions for cour	se completi	on:			
Learning outcomes	•				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 1434			
А	В	С	D	E	FX
18.97	16.11	16.04	13.74	19.53	15.62
Provides: prof. RNI Bálintová, PhD., RN			Dr. Katarína Bru	nňáková, PhD., R	NDr. Miroslava
Date of last modific	ation: 03.05	5.2015			
Approved:					

Faculty: Faculty of					
i acuity. I acuity (of Science				
Course ID: ÚBE LR1/03	EV/ Course name: Healing Plants				
Course type, scop Course type: Le Recommended o Per week: 2 Per Course method:	ecture course-load (h study period:	ours):			
Number of ECTS	S credits: 3				
Recommended se	emester/trimes	ster of the cours	se: 5.		
Course level: I., I	I.				
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom To provide the stu		ling principles o		uction of drug	
Brief outline of th	he course:		1 1		of drug. Activ
1	he course: , impprtance, o bids, Glycosides nts. Cultivation cted representat osaceae, Malva	collection. basic s, Flavonoids, He 1 and and post-l ives of medicina aceae, Ericaceae	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae
Brief outline of the Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Re	he course: , impprtance, o bids, Glycosides nts. Cultivation cted representat osaceae, Malva piaceae, Valeri terature:	collection. basic s, Flavonoids, Ho n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterao	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae
Brief outline of the Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Ro Caprifoliaceae, A Recommended lin	he course: , impprtance, o bids, Glycosides nts. Cultivation cted representat osaceae, Malva piaceae, Valeri terature: ing plants. New	collection. basic s, Flavonoids, Ho n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterao	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae
Brief outline of the Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Ro Caprifoliaceae, A Recommended lin Pahlow M.: Heali	he course: , impprtance, o bids, Glycosides nts. Cultivation cted representat osaceae, Malva piaceae, Valeri terature: ing plants. New	collection. basic s, Flavonoids, Ho n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterao	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae
Brief outline of the Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Ro Caprifoliaceae, A Recommended lin Pahlow M.: Heali	he course: , impprtance, o bids, Glycosides nts. Cultivation eted representat osaceae, Malva piaceae, Valeri terature: ing plants. New : nt	collection. basic s, Flavonoids, Ho n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterao v York 1993	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae
Brief outline of the Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Ro Caprifoliaceae, A Recommended lin Pahlow M.: Heali Course language Notes: Course assessment	he course: , impprtance, o bids, Glycosides nts. Cultivation eted representat osaceae, Malva piaceae, Valeri terature: ing plants. New : nt	collection. basic s, Flavonoids, Ho n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterao v York 1993	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace	nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae
Brief outline of the Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Ro Caprifoliaceae, A Recommended lin Pahlow M.: Heali Course language Notes: Course assessment Total number of a	he course: , impprtance, o bids, Glycosides nts. Cultivation cted representat osaceae, Malva piaceae, Valeri terature: ing plants. New : nt assessed studen	collection. basic s, Flavonoids, Ho n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterao v York 1993	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace ceae, Equisetacea	nd their effects of s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae.	Centers of origin Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants.
Brief outline of tl Medicinal Plants, substances Alcalo of medicinal plan Overview of select Hypericaceae, Ro Caprifoliaceae, A Recommended lin Pahlow M.: Heali Course language Notes: Course assessment Total number of a A 27.05	he course: , impprtance, o bids, Glycosides nts. Cultivation eted representat osaceae, Malva piaceae, Valeri terature: ing plants. New : nt assessed studen B 25.31	collection. basic s, Flavonoids, He n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterac v York 1993 tts: 403 C 19.85	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace ceae, Equisetacea	nd their effects of s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae.	Eenters of origin Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants.
Brief outline of the Medicinal Plants, substances Alcalor of medicinal plan of the Medicinal plan of the Medicinal plan overview of select Hypericaceae, Recommended hime Pahlow M.: Healine Course language Notes: Course language Total number of a A	he course: , impprtance, o bids, Glycosides nts. Cultivation cted representat osaceae, Malva piaceae, Valeri terature: ing plants. New : nt assessed studen B 25.31 Matej Dudáš, F	collection. basic s, Flavonoids, He n and and post-l ives of medicina aceae, Ericaceae anaceae, Asterac v York 1993 tts: 403 C 19.85 PhD.	terms. Drugs an ormons, Enzymes narvest technolog l plants of the fam e, Scrophulariace ceae, Equisetacea	nd their effects of s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae.	Eenters of origin Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants.

Faculty Facult		rsity in Košice			
- acurey - 1 acure	y of Science				
Course ID: ÚB HIS1/15	BEV/ Course i	name: Histology			
Recommende	Lecture / Praction d course-load (2 Per study per	ce hours):			
Number of EC	TS credits: 6			_	
Recommended	semester/trim	ester of the cours	e: 2.		
Course level: I					
Prerequisities:	ÚBEV/CYT1/1	5,ÚBEV/ACL/03			
Conditions for Oral examinati	-	tion:			
Learning outco To provide the		nowledge of basic	morphology of t	issues of animals	
hemopoiesis. C system. Digesti Special senses.	Circulatory syste ive system. Urin Nervous system	ective tissue. Carti em. Lymphoid sys ary system. Femal n	tem. Endocrine	system.Integume	ent. Respiratory
Recommended	literature:	lina: Histology L	ppincott Wiliam	s & Wilkins, 201	
Renate Lullman Gartner, L.P., H 1997	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J.,	Find: Histology, E. logie, Grada, 2012 Texbook of Histo Kelley, R.O.: Basi	logy. W.B. Saun	1 07	hiladelphia,
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997	logie, Grada, 2012 Texbook of Histo	logy. W.B. Saun	1 07	hiladelphia,
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan Course langua	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997	logie, Grada, 2012 Texbook of Histo	logy. W.B. Saun	1 07	hiladelphia,
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan Course langua Notes: Course assessm	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997 ge:	ologie, Grada, 2012 Texbook of Histo Kelley, R.O.: Basi	logy. W.B. Saun	1 07	hiladelphia,
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan Course langua Notes: Course assessm	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997 ge: nent	ologie, Grada, 2012 Texbook of Histo Kelley, R.O.: Basi	logy. W.B. Saun	1 07	hiladelphia,
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan Course langua Notes: Course assessm Total number o	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997 ge: nent of assessed stude	blogie, Grada, 2012 Texbook of Histo Kelley, R.O.: Basi	logy. W.B. Saun c Histology. Prei	ntice Hall Interna	hiladelphia, tional Inc.,
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan Course langua Notes: Course assesses Total number of A 28.21 Provides: doc.	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997 ge: nent of assessed stude B 14.36 RNDr. Zuzana I	ents: 195	D 14.87	E 14.87	hiladelphia, tional Inc., FX 5.13
Renate Lullman Gartner, L.P., H 1997 Juanqueira, L.C Apleton & Lan Course langua Notes: Course assessm Total number o A 28.21	nn-Rauch: Histo Iiatt, J.L.: Color C., Carneiro, J., ge, 1997 ge: nent of assessed stude B 14.36 RNDr. Zuzana I šová, PhD.	ents: 195 C 22.56 Daxnerová, CSc., o	D 14.87	E 14.87	hiladelphia, tional Inc., FX 5.13

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚBEV SBD/08	7/ Course na	me: History of E	Biology Seminar		
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (h study period: present	ours):			
Number of ECTS					
Recommended se	mester/trimes	ster of the cours	e: 1.		
Course level: I.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcom Introduction to his		e, especially biol	ogy		
Brief outline of the Introduction to his ages to present.		y (and related sci	entific areas) fro	om ancient times,	through middle
Recommended lit Magner, L.N. (200		of the life science	s. Marcel Dekke	er, Inc.	
Course language:					
Notes:					
Course assessmer Total number of a	-	ts: 398			
A	В	С	D	E	FX
97.24	2.76	0.0	0.0	0.0	0.0
Provides: prof. RN	NDr. Martin Ba	ačkor, DrSc.			
Date of last modi	fication: 03.05	5.2015			
Approved:					

e e	. Salalik Ullivel	sity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚB ACL/03	EV/ Course n	ame: Human An	atomy		
Recommended	Lecture / Practic d course-load (l 2 Per study per	e hours):			
Number of EC	TS credits: 5				
Recommended	semester/trime	ester of the cours	e: 1.		
Course level: I.					
Prerequisities:					
Conditions for Written examin	-	tion:			
Learning outco Anatomic system					
	ninology, skelet	ton and muscles m, urogenital sys		•	• • •
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: 1 Thieme Medica	hinology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System il Publishers, Ind		as and Textbook System, Volume 2 3	ns, nervous syste of Human 2: Internal Organ	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: 1 Thieme Medica	hinology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System il Publishers, Inc ur : Grant's atla	em, urogenital sys er, W. : Color Atl ne 1 : Locomotor S n and Sensory Org c. New York, 1993	as and Textbook System, Volume 2 3	ns, nervous syste of Human 2: Internal Organ	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: 1 Thieme Medica Anne M. R. Ag	hinology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System il Publishers, Inc ur : Grant's atla	em, urogenital sys er, W. : Color Atl ne 1 : Locomotor S n and Sensory Org c. New York, 1993	as and Textbook System, Volume 2 3	ns, nervous syste of Human 2: Internal Organ	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: 1 Thieme Medica Anne M. R. Ag Course languag Notes: Course assessm	ninology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System il Publishers, Inc ur : Grant's atla ge:	em, urogenital sys er, W. : Color Atl he 1 : Locomotor S h and Sensory Org c. New York, 1993 s of anatomy. Wil	as and Textbook System, Volume 2 3	ns, nervous syste of Human 2: Internal Organ	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: 1 Thieme Medica Anne M. R. Ag Course languag Notes: Course assessm	hinology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System Il Publishers, Inc ur : Grant's atla ge:	em, urogenital sys er, W. : Color Atl he 1 : Locomotor S h and Sensory Org c. New York, 1993 s of anatomy. Wil	as and Textbook System, Volume 2 3	ns, nervous syste of Human 2: Internal Organ	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: 1 Thieme Medica Anne M. R. Ag Course languag Notes: Course assessm Total number of	hinology, skelet lymphatic syste literature: hhardt, H., Platz /olumes : Volum Nervous System il Publishers, Inc ur : Grant's atla ge: hent f assessed studer	em, urogenital sys er, W. : Color Atl he 1 : Locomotor S h and Sensory Org c. New York, 1992 s of anatomy. Wil nts: 1819	tem,sensory orga as and Textbook System, Volume 2 ans 3 liams et Wilkins,	ns, nervous syste of Human 2: Internal Organ USA, 1991	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: I Thieme Medica Anne M. R. Ag Course languag Notes: Course assessm Total number of A 5.06	hinology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System il Publishers, Inc ur : Grant's atla ge: hent f assessed studer B 16.55	em, urogenital sys er, W. : Color Atl ne 1 : Locomotor S n and Sensory Org c. New York, 1993 s of anatomy. Wil nts: 1819 C	tem,sensory orga as and Textbook System, Volume 2 gans liams et Wilkins, D 25.62	ns, nervous syste of Human 2: Internal Organ USA, 1991 E 22.1	em, ontogenesis
Anatomic term circulatory and of man. Recommended Kahle, W., Leon Anatomy in 3 V and Volume 3: I Thieme Medica Anne M. R. Ag Course languag Notes: Course assessm Total number of A 5.06	hinology, skelet lymphatic syste literature: nhardt, H., Platz /olumes : Volum Nervous System il Publishers, Inc ur : Grant's atla ge: hent f assessed studer B 16.55 RNDr. Juraj Šev	em, urogenital sys er, W. : Color Atl ne 1 : Locomotor S n and Sensory Org c. New York, 1993 s of anatomy. Wil nts: 1819 C 27.65 rc, PhD., RNDr. A	tem,sensory orga as and Textbook System, Volume 2 gans liams et Wilkins, D 25.62	ns, nervous syste of Human 2: Internal Organ USA, 1991 E 22.1	em, ontogenesis

	C				
University: P. J. Š	Safárik Univer	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE VEK1/03	V/ Course n	ame: Introduction	n to Ecology		
Course type, scop Course type: Le Recommended o Per week: 2 Per Course method:	cture course-load (l study period	hours):			
Number of ECTS	S credits: 3				
Recommended se	emester/trime	ester of the cours	e: 5.		
Course level: I., I	I.				
Prerequisities:					
Conditions for co	ourse complet	tion:			
Learning outcom Fundamental para Brief outline of th Ecological factor	ameters and re); influence of ec	ological factor
on individuals (m ecosystems (impa	norphological	adaptations, beha	vioral reactions		
Recommended lin Begon, M., Harpe Blackwell Sci. Pu	er, J. L., Town	send, C. L.: Ecolo	gy: individuals,	populations, and	communities.
Course language	:				
Notes:					
Course assessme Total number of a		nts: 1655			
A	В	C	D	Е	FX
20.54	16.74	24.65	17.7	12.15	8.22
I		<u> </u>			
Provides: RNDr.	Natália Rasch	manová, PhD.			
Provides: RNDr. Date of last modi		· · · · · · · · · · · · · · · · · · ·			

University: P. J. Šaf	ärik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚCHV/ ULP/08	Course na	me: Introduction	n to Laboratory	Work	
Course type, scope Course type: Pract Recommended co Per week: Per stu Course method: p	ice urse-load (h dy period: 1	ours):			
Number of ECTS c	redits: 2				
Recommended sem	ester/trimes	ster of the cours	e: 1.		
Course level: I.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	rature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 444			
A	В	С	D	Е	FX
65.77	26.35	6.08	1.58	0.0	0.23
Provides: RNDr. M	artin Vavra, 1	PhD.		·	
Date of last modifie	cation: 03.05	5.2015			
Approved:					

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: Dek. PF UPJŠ/USPV/13	Course name: Introduction	n to Study of Sciences
Course type, scope a Course type: Lectur Recommended cou Per week: Per stud Course method: pre	re / Practice rse-load (hours): ly period: 12s / 3d	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e: 1
Course level: I.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 1734	
	abs	n
	86.51	13.49
Provides: doc. RNDr	. Marián Kireš, PhD.	
Date of last modifica	tion: 25.09.2019	
Approved:		

University: P. J. Šaf	ärik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: KKF/ LB/07	Course na	me: Latin for St	udents of Biolog	у	
Course type, scope Course type: Lectu Recommended cou Per week: 1 / 1 Pe Course method: p	ure / Practice urse-load (he r study perio	ours):			
Number of ECTS c	redits: 3				
Recommended sem	ester/trimes	ter of the cours	e: 2.		
Course level: I.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	rature:				
Course language:					
Notes:	,				
Course assessment Total number of ass	essed student	ts: 556			
A	В	С	D	Е	FX
20.32	19.24	24.82	14.03	16.37	5.22
Provides: Mgr. Zuza	ana Krokosov	vá	1	<u> </u>	
Date of last modific	cation: 17.05	.2021			
Approved:					

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚMV/ MTB/13	Course name: Mathematics for biologists
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: 5
Recommended seme	ster/trimester of the course: 2.
Course level: I.	
Prerequisities:	
Conditions for cours	e completion:
	mathematics, mathematical problem solving strategies and their applications n biology and other sciences.
 Systems of linear elimination) Functions (monot functions and their propriets) Combinatorics (bininclusion-exclusion propriate for the sequences and series) Sequences and series (limits, continuity) Derivatives (sum, polynomial, analysis) Integrals (indefinite definite integral) Ordinary differentiation 	inomial theorem, combinations and permutations without / with repetition brinciple) ies (monotonicity and boundedness, recurrent sequence, geometric series) equence, limit of function, convergence, divergence, methods for computing product, quotient and chain rule, derivatives of elementary functions, Taylor of functions) e integral, integration methods: by substitution, by parts, by partial fractions tial equations (first order separable ODE, first order linear ODE)
D. Studenovská, T. M odbory, UPJŠ 2006.	iture: in der Biologie, Springer, Berlin Heidelberg, 2006. Iadaras, S. Mockovčiak: Zbierka úloh z matematiky pre nematematické Iadaras: Matematika pre nematematické odbory, UPJŠ 2006.
Course language: Slovak	

Course assessm Total number of	ent f assessed studen	ts: 511			
А	В	С	D	Е	FX
12.72	12.52	16.05	18.0	30.14	10.57
Provides: RND Mgr. Miriam Kl	-	r. rer. nat., RND1	: Jana Borzová, I	PhD., RNDr. Kata	arína Čekanová,
Date of last mo	dification: 03.05	5.2015			
Approved:					

University: P. J	. Šafárik Univers	ity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚB MKV/15	EV/ Course na	me: Mikrobioló	gia a základy vi	rológie	
Course type: I Recommende	ope and the met Lecture / Practice d course-load (h 2 Per study perio d: present	ours):			
Number of EC	FS credits: 5				
Recommended	semester/trimes	ster of the cours	e: 3.		
Course level: I.					
Prerequisities:	ÚBEV/CYT1/15				
	course completi practicals (at le		ritten examinati	ons during seme	ester, final oral
their cytology, p	btain a basic info	tics, ecology, clas	ssification, and i	and eukaryotic r mportance . Infor	
				gy, physiology, ge d environment.	enetics, ecology,
Recommended	literature:				
Course languag	ge:				
Notes:					
Course assessm Total number of	ent f assessed studen	ts: 1406			
А	В	С	D	Е	FX
22.4	13.58	18.28	19.63	21.76	4.34
	RNDr. Peter Prist D., RNDr. Lenka			PhD., RNDr. Ma	riana
Date of last mo	dification: 02.02	2.2021			
Approved:					

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE MOB1/15	EV/ Course na	ame: Molecular l	Biology		
Course type, sco Course type: L Recommended Per week: 3 / 3 Course method	ecture / Practice course-load (h Per study peri	e ours):			
Number of ECT	S credits: 7				
Recommended s	semester/trimes	ster of the cours	e: 4.		
Course level: I.					
Prerequisities: (JCHV/BCHU/0	3			
Conditions for c Oral examination	-	ion:			
Learning outcor To provide the s expression and d	students with k levelopment.	nowledge of mo	lecular basis of	inheritance and	control of gene
Brief outline of a Structure and p replication and re gene expression	properties of in epair, transcripti	ion and translatio	n. Prokaryotic ar	nd eukaryotic gen	
Recommended I Lodish, H., Balti Freeman and Co Myers, R.A.: Mo	more, D., Berk, mpany, New Yo	ork, 1995			
Course language	e:				
Notes:					
Course assessme Total number of		ıts: 194			
A	В	С	D	Е	FX
25.26	19.59	19.07	15.98	17.01	3.09
		taž CCa DNDr			
Provides: doc. R			Zuzana Jendželo	ovská, PhD., RNI	Dr. Ján Košuth,
Provides: doc. R PhD., RNDr. Jan Date of last mod	a Vargová, PhD	•	Zuzana Jendželo	ovská, PhD., RN	Dr. Ján Košuth,

University: P. J. S	Šafárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE MBGj/19	V/ Course na	me: Molekular	Biology and Gen	etics	
Course type, sco Course type: Recommended Per week: Per s Course method	- course-load (he study period:				
Number of ECTS	S credits: 4				
Recommended se	emester/trimes	ter of the cours	e:		
Course level: I.					
Prerequisities: Ú	BEV/CYT1/15	ÚBEV/MOB1/	15,ÚBEV/GE1/1	0	
Conditions for co	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language					
Notes:					
Course assessme Total number of a		ts: 33			
A	В	С	D	Е	FX
39.39	24.24	9.09	12.12	12.12	3.03
Provides:				<u>ب</u>	
Date of last modi	ification: 10.02	.2020			
Approved:					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH OCHB/10	IV/ Course na	me: Organic Ch	emistry		
Course type, sco Course type: L Recommended Per week: 3 / 1 Course method	ecture / Practice course-load (h Per study perio	ours):			
Number of ECT	S credits: 5				
Recommended s	semester/trimes	ter of the cours	e: 4.		
Course level: I.					
Prerequisities: Ú	JCHV/VACH/10)			
Conditions for c	ourse completi	on:			
Learning outcor	nes:				
Brief outline of	the course:				
3. Organic Chem	esentation in MO histry, Clayden, histry, Solomon, émia, Pavol Zah	Greeves Warren Willey, 2009. radník, Mária M	& Wothers, Oxf ečiarová, Peter N	ford University Pr Magdolen, Univer	-
Course language	e:				
Notes:					
Course assessme Total number of		ts: 259			
A	В	С	D	Е	FX
22.78	22.39	31.66	18.15	4.63	0.39
Provides: RNDr. Mária Vilková, P		aková, PhD., doc	. RNDr. Mirosla	ava Martinková, I	PhD., RNDr.
Date of last mod	lification: 30.08	.2021			
Approved:					

University:	P. J. Šafári	k University i	n Košice				
Faculty: Fa	culty of Sci	ience					
Course ID: PAR1/03	ÚBEV/	Course name	: Parasitolog	y I.			
Course typ Recomme Per week:	pe: Lecture nded cours	e-load (hour tudy period:	s):				
Number of							
Recommen	ded semest	ter/trimester	of the cours	e: 5.			
Course leve	e l: I., II., III	•					
Prerequisit	ies: ÚBEV	ZOM/04 and	leboÚBEV/2	ZO1/03 and 1	leboÚBEV/Z	CO1/04	
Conditions	for course	completion:					
Learning o	utcomes:						
Brief outlin	e of the co	urse:					
Recommen	ded literat	ure:					
Course lang	guage:						
Notes:							
Course asse Total numb		ed students: 4	41				
А	В	С	D	Е	FX	Ν	Р
51.93	19.95	12.7	10.43	3.17	0.68	0.0	1.13
Provides: R	NDr. Viktó	ria Majláthov	, vá, PhD., RN	Dr. Igor Maj	láth, PhD.		
Date of last	modificati	ion: 05.07.202	21				
Approved:							

University: P. J. Ša	fárik University in Košice
Faculty: Faculty of	Science
Course ID: ÚFV/ FCH1/02	Course name: Physical Chemistry for Biological Sciences
	ure / Practice urse-load (hours): r study period: 42 / 28
Number of ECTS of	eredits: 6
Recommended sem	nester/trimester of the course: 3.
Course level: I., II.	
Prerequisities:	
Conditions for cou	rse completion:

Test

Exam

Learning outcomes:

The introduction into the fundamental knowledge of selected parts of physical chemistry with emphasis on the utilization of these knowledges for the study of physico-chemical properties of biomacromolecules and biological systems.

Brief outline of the course:

Description of macroscopic systems, energy and 1. law of thermodynamics, entropy and 2. law of thermodynamics, Gibbs energy and equilibrium state, chemical potential, binding constants of the ligand-macromolecule interactions, biophysical applications of the thermodynamics. Solutions, electrolytic solutions, electrochemical equilibrium, electrodes, electrochemical potential. Statistical thermodynamics: the interpretation of energy, heat, entropy and information; the partition functions, biological applications of statistical thermodynamics, the conformational transitions in proteins and nucleic acids. Chemical reactions, chemical and biochemical kinetics, dynamics of the chemical reactions, kinetics of the enzymatical reactions, inhibition of the enzymes. Transport processes, molecular diffusion, membrane transport and its significance for the biological organisms.

Recommended literature:

1. P. Atkins and J. de Paula. Atkins's Physical Chemistry (9th Edition), Oxford University Press, 2010.

2. P. Atkins. Fyzikálna chémia (slovenský preklad 6. vydania), STU Bratislava, 1999.

P. Atkins, J. De Paula. Fyzikální chemie (český preklad 9. vydania), VŠCHT Praha,
 2013

4. R.Chang. Physical Chemistry for the Biosciences, University Science Book, 2006.

5. D. Eisenberg and D. Crothers. Physical Chemistry with Applications to the Life Sciences, Benjamin/Cummings, 1979.

6. K. van Holde, W. Johnson and P. Ho. Principles of Physical Biochemistry, Prentice Hall, 1988.

7. D.T. Haynie. Biological Thermodynamics (2nd Edition), Cambridge University Press, 2008.

8. A.P.H. Peters. Concise Chemical Thermodynamics (3rd Edition), CRC Press, Taylor & Francis Group, 2010.

9. I. Tinoco, jr., K. Sauer, J.C. Wang, J.C. Puglisi, G. Harbison and D.Rovnyak.

Physical Chemistry – Principles and Applications in Biological Sciences (5th Edition), Pearson, 2014.

10. A. Cooksy. Physical Chemistry- Thermodynamics, Statistical Mechanics, and Kinetics, Pearson, 2014.

Course languag	ge:				
Notes:					
Course assessm Total number of	ent f assessed studen	ts: 100			
А	В	С	D	Е	FX
18.0	29.0	31.0	11.0	11.0	0.0
Provides: doc. N	Mgr. Daniel Janc	ura, PhD.			
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: ÚFV/ FPB/13	Course na	me: Physics for	Biologists		
Course type, scop Course type: Lec Recommended co Per week: 2 / 2 P Course method:	ture / Practice ourse-load (h er study peri	ours):			
Number of ECTS	credits: 4				
Recommended ser	nester/trimes	ster of the cours	e: 2.		
Course level: I.					
Prerequisities:					
Conditions for con Participation at the	1				
Learning outcome Completing the co understand their re	urse students	-	-	ndamental physica	al laws and will
Brief outline of th Physics. Describin and impulse. Rota Mechanical waves	g motion. Nev tional motior	n of solid object	s. Behavior of	fluids. Electrosta	
Recommended lite 1. pdf presentation 2. A. Giambattista 3. W. T. Griffith, J 2009. 4. D. Halliday, R. 1	, B. M. Richar W. Brosing,	The physics of e	veryday phenom	ena, McGraw-Hil	,
Course language: Slovak					
Notes:					
Course assessmen Total number of as	-	ts: 833			
А	В	С	D	Е	FX
14.77	17.41	26.53	22.45	17.53	1.32
Provides: RNDr. (abriela Fabri	ciová, PhD.			
Date of last modif	ication: 03.05	5.2015			
Approved:					

Faculty: Facult		sity in Košice			
- acuity • 1 acuit	y of Science				
Course ID: ÚB FG1/03	EV/ Course n	ame: Phytogeogr	aphy		
Recommended	Lecture / Practic d course-load (H 1 Per study per	e nours):			
Number of EC	TS credits: 5				
Recommended	semester/trime	ster of the cours	e: 3., 5.		
Course level: I.	, II.				
Prerequisities:					
Conditions for Written work. Exam.	course complet	ion:			
Learning outco To obtain theore		cal knowledge fro	om phytogeograp	bhy.	
Brief outline of	the course.				
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate	ements. Main cou Slovak vegetatior forests to tundrased plants. ng of maps. Ph	rse of florogene a. Regional phyto s. Changes of e	y, area, area disju sis since paleozoi ogeography of Ea arth vegetation a division of Slov	ic to quaternary arth. Vegetation and their study.
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field seminar works Recommended Hendrych R.: F	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeograp literature: ytogeografie S	ements. Main cou Slovak vegetation forests to tundra: ed plants. ng of maps. Ph bhy. SPN, Praha 1984.	urse of florogene a. Regional phyto s. Changes of e ytogeographical	sis since paleozoi ogeography of Ea arth vegetation a	ic to quaternary arth. Vegetation and their study. vakia. Students
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field seminar works Recommended Hendrych R.: F	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeograp literature: ytogeografie S omolino M. V.: H	ements. Main cou Slovak vegetation forests to tundra: ed plants. ng of maps. Ph bhy. SPN, Praha 1984.	urse of florogene a. Regional phyto s. Changes of e ytogeographical	sis since paleozoi ogeography of Ea arth vegetation a division of Slov	ic to quaternary arth. Vegetation and their study. vakia. Students
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field seminar works Recommended Hendrych R.: F Brown J. H., Lo	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeograp literature: ytogeografie S omolino M. V.: H	ements. Main cou Slovak vegetation forests to tundra: ed plants. ng of maps. Ph bhy. SPN, Praha 1984.	urse of florogene a. Regional phyto s. Changes of e ytogeographical	sis since paleozoi ogeography of Ea arth vegetation a division of Slov	ic to quaternary arth. Vegetation and their study. vakia. Students
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field seminar works of Recommended Hendrych R.: F Brown J. H., Lo Course languag Notes:	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeograp literature: ytogeografie S omolino M. V.: F	ements. Main cou Slovak vegetatior forests to tundra: ed plants. ng of maps. Ph ohy. SPN, Praha 1984. Biogeography S	urse of florogene a. Regional phyto s. Changes of e ytogeographical	sis since paleozoi ogeography of Ea arth vegetation a division of Slov	ic to quaternary arth. Vegetation and their study. vakia. Students
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field seminar works of Recommended Hendrych R.: F Brown J. H., Lo Course languag Notes:	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeografi literature: ytogeografie S pmolino M. V.: E ge:	ements. Main cou Slovak vegetatior forests to tundra: ed plants. ng of maps. Ph ohy. SPN, Praha 1984. Biogeography S	urse of florogene a. Regional phyto s. Changes of e ytogeographical	sis since paleozoi ogeography of Ea arth vegetation a division of Slov	ic to quaternary arth. Vegetation and their study. vakia. Students
History of phy endemites, vica ages. Postglacia geography: from Geographical of Practices: Field seminar works of Recommended Hendrych R.: F Brown J. H., Lo Course languag Notes: Course assessme Total number of	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeografi literature: ytogeografie S omolino M. V.: F ge:	ements. Main cou Slovak vegetation forests to tundra: ed plants. ng of maps. Ph bhy. SPN, Praha 1984. Biogeography S	irse of florogene . Regional phyto s. Changes of e ytogeographical inauer Associate	sis since paleozoi ogeography of Ea arth vegetation a division of Slov	ic to quaternary arth. Vegetation and their study. vakia. Students
History of physe endemites, vica ages. Postglacia geography: from Geographical of Practices: Field seminar works of Recommended Hendrych R.: F Brown J. H., Lo Course languag Notes: Course assessme Total number of A 39.04	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeograp literature: ytogeografie S omolino M. V.: E ge: nent f assessed studen B 22.46	ements. Main cou Slovak vegetation forests to tundrased plants. ng of maps. Phohy. SPN, Praha 1984. Biogeography S	D 8.29	sis since paleozoi ogeography of Ea arth vegetation a division of Slov es, Sunderland, 19 E 8.29	ic to quaternary arth. Vegetation and their study. vakia. Students 998. FX
History of phy endemites, vica ages. Postglacia geography: fro Geographical of Practices: Field seminar works of Recommended Hendrych R.: F Brown J. H., Lo Course languag Notes: Course assessme Total number of A 39.04	togeography. Pla riancy, floral ele al evolution of S m tropical rainf rigin of cultivate dworks. Prepari on phytogeograp literature: ytogeografie S omolino M. V.: F ge: nent f assessed studen B 22.46 RNDr. Pavol Ma	ements. Main cou Slovak vegetatior forests to tundra: ed plants. ng of maps. Ph ohy. SPN, Praha 1984. Biogeography S nts: 374 C 21.12 ártonfi, PhD., Mg	D 8.29	sis since paleozoi ogeography of Ea arth vegetation a division of Slov es, Sunderland, 19 E 8.29	ic to quaternary arth. Vegetation and their study. vakia. Students 998. FX

University: P. J. Šaf	ärik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ BRj/19	Course na	me: Plant Biolo	gy		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (h dy period: resent				
Number of ECTS c					
Recommended sem	ester/trimes	ter of the cours	e:		
Course level: I.					
Prerequisities: ÚBE	EV/CYT1/15	,ÚBEV/VB1/01	ÚBEV/FR1/10,	ÚBEV/BO1/03,Ú	JBEV/BOT1/03
Conditions for cour	se completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 4			
А	В	С	D	E	FX
0.0	50.0	50.0	0.0	0.0	0.0
Provides:					
Date of last modific	ation: 10.02	.2020			
Approved:					

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚBEV/ BTR1/06	Course name: Plant Biotechnology
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 3 Per Course method: pro Number of ECTS cr	re / Practice rse-load (hours): study period: 28 / 42 esent
	ester/trimester of the course: 5.
Course level: I., II., I	III.
Prerequisities:	
Conditions for cours Active participation	se completion: at the practicals, protocols, oral examination
Learning outcomes:	nd prostigal knowledge on plant tiggue sulture in vitre

To gain theoretical and practical knowledge on plant tissue culture in vitro.

Brief outline of the course:

Definition and history of plant biotechnology. Aseptic techniques, culture conditions. Micropropagation, types of plant explant cultures used in biotechnology. Somatic hybridization and embryogenesis, direct and indirect organogenesis. Somaclonal varation. Secondary metabolites production, bioreactors, biotransformation, immobilization and elicitation. Genetic transformation, direct and indirect methods of transformation. Types of vectors, promotors, selection markers and reporter genes used in plant transformation. Germplasm storage, gene banks. Cryopreservation and slow growth method. Genetically modified organisms - metabolic engineering, genetic engineering, plants resistant to biotic and abiotic stresses, molecular farming, the role of tissue and organ specific plant promoters, plastome engineering, plant-based edible vaccines. RNA silencing, the application of microRNAs in plant biotechnology.

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: RNDr. Miroslava Bálintová, PhD., prof. RNDr. Eva Čellárová, DrSc., RNDr. Jana Henzelyová, PhD.

Date of last modification: 02.02.2021

Approved:

Faculty: Faculty	of Science				
Course ID: ÚBE FR1/10	EV/ Course n	name: Plant Phys	iology		
Course type, sco Course type: La Recommended Per week: 2 / 3 Course method	ecture / Practic course-load (Per study per	ce hours):			
Number of ECT	S credits: 6				
Recommended s	semester/trim	ester of the cours	se: 4.		
Course level: I.					
Prerequisities: Ú	JBEV/VB1/01				
Conditions for c Active participat	-				
Learning outcom Overview of all i		siological process	es in plant organi	sms.	
Water in plan, m	ineral nutrition	n, photosynthesis		· • •	-
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign qualitative and rements of res l. Qualitative a poyanins at di	n, photosynthesis, acronutrients, seco mancy, germination of water poten nents by TLC. Qu quantitative anal piration by select analyses of protei fferent pH. Mean	ondary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in	velopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea.
heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign pualitative and rements of res l. Qualitative a beyanins at di seeds. iterature:	acronutrients, seco mancy, germinations of water poten nents by TLC. Qu quantitative anal piration by select analyses of protei fferent pH. Meas	ondary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se surement of silic	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea. illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I Hopkins W.G. H	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign pualitative and rements of res l. Qualitative a beyanins at di seeds. iterature: uner N.P.A., In	acronutrients, seco mancy, germinations of water poten nents by TLC. Que quantitative anal piration by select analyses of protei	ondary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se surement of silic	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea. illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign pualitative and rements of res l. Qualitative a beyanins at di seeds. iterature: uner N.P.A., In	acronutrients, seco mancy, germinations of water poten nents by TLC. Qu quantitative anal piration by select analyses of protei fferent pH. Meas	ondary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se surement of silic	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea. illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I Hopkins W.G. H Course language Notes:	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign vualitative and rements of res l. Qualitative a boyanins at di seeds. iterature: uner N.P.A., In e:	acronutrients, seco mancy, germinations of water poten nents by TLC. Qu quantitative anal piration by select analyses of protein fferent pH. Mean	ondary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se surement of silic	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea. illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I Hopkins W.G. H Course language Notes:	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign vualitative and rements of res l. Qualitative a boyanins at di seeds. iterature: uner N.P.A., In e:	acronutrients, seco mancy, germinations of water poten nents by TLC. Qu quantitative anal piration by select analyses of protein fferent pH. Mean	ondary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se surement of silic	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea. illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I Hopkins W.G. H Course language Notes: Course assessme Total number of	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign pualitative and rements of res l. Qualitative a ocyanins at di seeds. iterature: uner N.P.A., In e: ent assessed stude	ents: 1813	ndary metabolism on, flowering, pla tial, Quantitative antitative analyse yses of sugars. I tive electrode. M ns. Activity of se surement of silic	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	welopment, plant tress physiology atrients in dust. a and b. Biotest of glucose and otal nitrogen by potato and pea. illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I Hopkins W.G. H Course language Notes: Course assessme Total number of A 15.66	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign qualitative and rements of res l. Qualitative a ocyanins at di seeds. iterature: uner N.P.A., In e: ent assessed stude B 13.51	entroduction to pla	Definition of the second secon	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust a and b. Biotest of glucose and otal nitrogen by potato and pea illation method.
Water in plan, m heterotrophy, me hormones, photo Lab practicals: Separation of ass of cytokinins. Q fructose. Measur Kjeldahl method Colour of antho Germination of s Recommended I Hopkins W.G. H Course language Notes: Course assessme Total number of A 15.66	ineral nutrition tabolism of ma preceptors, dorn Measurements similation pign pualitative and rements of res l. Qualitative a ocyanins at di seeds. iterature: uner N.P.A., In e: ent assessed stude B 13.51 NDr. Peter Pal	ents: 1813 ents: 1813 C 16.05 C C C C C C C C C C C C C	Definition of the second secon	n, growth and dev nt movements, st e analyses of nu es of chlorophyll IPLC separation feasurement of to ome enzymes in ca level by disti	velopment, plant tress physiology atrients in dust a and b. Biotest of glucose and otal nitrogen by potato and pea illation method.

University: P. J. Šaf	árik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ IOR/09	Course na	ame: Plant Protec	etion		
Course type, scope Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	ire / Practice irse-load (h study perio	ours):			
Number of ECTS c	redits: 4				
Recommended sem	ester/trimes	ster of the cours	e: 6.		
Course level: I., II.					
Prerequisities: ÚBE	V/VEK1/03	•			
Conditions for cour	se completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 61			
A	В	С	D	Е	FX
6.56	27.87	24.59	19.67	21.31	0.0
Provides: prof. RNI	Dr. Martin Ba	ačkor, DrSc., Ing	. Martin Suvák, 1	PhD.	
Date of last modific	ation: 03.05	5.2015			
Approved:					

University: P. J. Šafári	k University in Košice	
Faculty: Faculty of Sci	ience	
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Ae	robic Exercise
Course type, scope an Course type: Practice Recommended cours Per week: Per study Course method: com	e-load (hours): period: 36s	
Number of ECTS crea	dits: 2	
Recommended semest	ter/trimester of the cours	e:
Course level: I., II.		
Prerequisities:		
Conditions for course Conditions for course of Attendance		
	vided an overview of pos	sibilities how to spend leisure time in seaside
Students will acquire p the aim to improve the	d their skills in work and practical experience in org stay and to create positive	communication with clients will be improved. anising the cultural and art-oriented events, with
Students will acquire p the aim to improve the Brief outline of the co Brief outline of the cou 1. Basics of seaside aeu 2. Morning exercises 3. Pilates and its applic 4. Exercises for the spi 5. Yoga basics 6. Sport as a part of lei 7. Application of project (children, young peopl	d their skills in work and practical experience in org stay and to create positive urse: robics cation in seaside conditions ne sure time cts of productive spending	communication with clients will be improved. anising the cultural and art-oriented events, with experiences for visitors.
Students will acquire p the aim to improve the Brief outline of the co Brief outline of the cou 1. Basics of seaside aeu 2. Morning exercises 3. Pilates and its applic 4. Exercises for the spi 5. Yoga basics 6. Sport as a part of lei 7. Application of project (children, young peopl	d their skills in work and practical experience in org stay and to create positive urse: urse: robics cation in seaside conditions ne sure time cts of productive spending e, elderly) de cultural and art-oriented	communication with clients will be improved. anising the cultural and art-oriented events, with experiences for visitors.
Students will acquire p the aim to improve the Brief outline of the co Brief outline of the cou 1. Basics of seaside aeu 2. Morning exercises 3. Pilates and its applic 4. Exercises for the spi 5. Yoga basics 6. Sport as a part of lei 7. Application of projet (children, young peopl 8. Application of seasid	d their skills in work and practical experience in org stay and to create positive urse: urse: robics cation in seaside conditions ne sure time cts of productive spending e, elderly) de cultural and art-oriented	communication with clients will be improved. anising the cultural and art-oriented events, with experiences for visitors.
Students will acquire p the aim to improve the Brief outline of the co Brief outline of the cou 1. Basics of seaside aeu 2. Morning exercises 3. Pilates and its applic 4. Exercises for the spi 5. Yoga basics 6. Sport as a part of lei 7. Application of project (children, young peopl 8. Application of seaside Recommended literat	d their skills in work and practical experience in org stay and to create positive urse: urse: robics cation in seaside conditions ne sure time cts of productive spending e, elderly) de cultural and art-oriented	communication with clients will be improved. anising the cultural and art-oriented events, with experiences for visitors.
Students will acquire p the aim to improve the Brief outline of the co Brief outline of the cou 1. Basics of seaside aeu 2. Morning exercises 3. Pilates and its applic 4. Exercises for the spi 5. Yoga basics 6. Sport as a part of lei 7. Application of projet (children, young peopl 8. Application of seasid Recommended literat Course language:	d their skills in work and practical experience in org stay and to create positive urse: robics eation in seaside conditions ne sure time cts of productive spending e, elderly) de cultural and art-oriented ure:	communication with clients will be improved. anising the cultural and art-oriented events, with experiences for visitors.
Students will acquire p the aim to improve the Brief outline of the co Brief outline of the cou 1. Basics of seaside act 2. Morning exercises 3. Pilates and its applic 4. Exercises for the spi 5. Yoga basics 6. Sport as a part of lei 7. Application of proje (children, young peopl 8. Application of seasid Recommended literatu Course language: Notes: Course assessment Total number of assess	d their skills in work and practical experience in org stay and to create positive urse: robics eation in seaside conditions ne sure time cts of productive spending e, elderly) de cultural and art-oriented ure:	communication with clients will be improved. 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. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope a Course type: Practi- Recommended cou Per week: 2 Per stu Course method: co	ce rse-load (hours): Idy period: 28 mbined, present
Number of ECTS cr	edits: 2
Recommended seme	ester/trimester of the course: 1.
Course level: I., I.II.,	, II.
Prerequisities:	
Conditions for cours Min. 80% of active p	se completion: participation in classes.
They have a great in	I their forms prepare university students for their professional and personal life npact on physical fitness and performance. Specialization in sports activitie strengthen their relationship towards the selected sport in which they also
University provides badminton, body forr indoor football, S-M In the first two seme and particularities of physical condition, c Last but not least, the	

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 ass Total numb	essment per of assesse	ed students: 1	2859				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
87.01	0.08	0.0	0.0	0.0	0.04	8.1	4.77
doc. PaedD	r. Ivan Uher,	PhD., prof. l	RNDr. Stanis	d Kaško, PhI slav Vokál, D Richard Mel	orSc., Mgr. M	arcel Čurgal	li, Mgr.
Date of last	t modificatio	on: 13.05.202	21				
Approved:							

Faculty: Fa	aculty of So	cience					
Course ID: TVb/11	: ÚTVŠ/	Course name	: Sports Acti	vities II.			
Course ty Recomme Per week:	pe: Practic ended cour 2 Per stue	nd the method e se-load (hour ly period: 28 nbined, presen	s):				
Number of	ECTS cre	edits: 2					
Recommen	ided semes	ster/trimester	of the cours	se: 2.		-	
Course leve	el: I., I.II.,	II.					
Prerequisit	ties:						
		e completion: classes - min.	80%.				
They have	a great im	their forms pre pact on physic	1	5	1	-	
improve.		trengthen their		-	-	-	
improve. Brief outlin Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise	ne of the co optional su provides , body form ball, S-M s two semes larities of it ondition, co ot least, the special pro- to these s lucation tra es of the fac	ourse: abject, the Inst for students t a, bouldering, f systems, step a aters of the firs ndividual sport bordination ab- important role ogram of medic ports, the Inst inings with an a ulty or University	itute of Phys he following loorball, yog erobics, tabl t level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers	p towards the sical Education g sports action g, power yog e tennis, tenr lucation studie ls, game action cal performa tivities is to en- education to for those who ogram and org	on and Sport ivities: aerologa, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and o are interess ganises variou	port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio	h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at
improve. Brief outlin Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise	ne of the co optional su provides , body form ball, S-M s two semes larities of it ondition, co ot least, the special pro- to these s lucation tra- es of the fac	ourse: abject, the Inst for students t a, bouldering, f systems, step a aters of the firs ndividual sport bordination ab- important role ogram of medic ports, the Inst inings with an a ulty or University	itute of Phys he following loorball, yog erobics, tabl t level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers	p towards the sical Education g sports action g, power yog e tennis, tenr lucation studie ls, game action cal performa tivities is to en- education to for those who ogram and org	on and Sport ivities: aerologa, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and o are interess ganises variou	port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio	h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at
improve. Brief outlin Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise Recommen Course lan	ne of the co optional su provides , body form ball, S-M s two semes larities of it ondition, co ot least, the special pro- to these s lucation tra- es of the fac	ourse: abject, the Inst for students t a, bouldering, f systems, step a aters of the firs ndividual sport bordination ab- important role ogram of medic ports, the Inst inings with an a ulty or University	itute of Phys he following loorball, yog erobics, tabl t level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers	p towards the sical Education g sports action g, power yog e tennis, tenr lucation studie ls, game action cal performa tivities is to en- education to for those who ogram and org	on and Sport ivities: aerol ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and o are interes ganises variou	port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio	h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at
improve. Brief outlin Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise Recommen Course lan Notes:	ne of the co optional su provides , body form ball, S-M s two semes larities of it ondition, co ot least, the special pro- to these s lucation tra- es of the fac ided litera guage:	ourse: abject, the Inst for students t a, bouldering, f systems, step a aters of the firs ndividual sport bordination ab- important role ogram of medic ports, the Inst inings with an a ulty or University	itute of Phys he following loorball, yog erobics, tabl t level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers	p towards the sical Education g sports action g, power yog e tennis, tenr lucation studie ls, game action cal performa tivities is to en- education to for those who ogram and org	on and Sport ivities: aerol ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and o are interes ganises variou	port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio	h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at
improve. Brief outlin Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise Recommen Course lan Notes: Course ass	ne of the co optional su provides , body form ball, S-M s two semes larities of i ondition, co ot least, the special pro- to these s lucation tra es of the fac ded litera guage:	ourse: abject, the Inst for students t a, bouldering, f systems, step a atters of the firs ndividual sport bordination ab- important role ogram of medic ports, the Inst inings with an a ulty or Univers	r relationship itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic cal physical itute offers attractive pro-	p towards the sical Education g sports action g, power yog e tennis, tenr lucation studie ls, game action cal performa tivities is to en- education to for those who ogram and org	on and Sport ivities: aerol ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and o are interes ganises variou	port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio	h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at
improve. Brief outlin Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise Recommen Course lan Notes: Course ass	ne of the co optional su provides , body form ball, S-M s two semes larities of i ondition, co ot least, the special pro- to these s lucation tra es of the fac ded litera guage:	ourse: abject, the Inst for students t a, bouldering, f systems, step a aters of the firs ndividual sport bordination ab- important role ogram of medic ports, the Inst inings with an a ulty or University	r relationship itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic cal physical itute offers attractive pro-	p towards the sical Education g sports action g, power yog e tennis, tenr lucation studie ls, game action cal performa tivities is to en- education to for those who ogram and org	on and Sport ivities: aerol ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and o are interes ganises variou	port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio	h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at

Provides: Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

Approved:

Faculty F			n Košice				
- ucuity • 1	aculty of Sc	eience					
Course ID TVc/11	: ÚTVŠ/	Course name	: Sports Acti	vities III.			
Course ty Recommo Per week	vpe: Practic ended cour : 2 Per stud	nd the method e se-load (hour ly period: 28 abined, presen	s):				
Number o	f ECTS cre	dits: 2					
Recomme	nded semes	ter/trimester	of the cours	e: 3.			
Course lev	el: I., I.II.,	II.					
Prerequisi	ties:						
		e completion: rticipation in c	elasses				
They have	vities in all a great imp	their forms pre pact on physic trengthen their	al fitness an	d performan	ce. Specializ	ation in spor	rts activities
Within the	ne of the co optional su		itute of Phys	ical Educati	on and Sport		
badminton indoor foo In the first and particu physical c Last but no means of a In addition physical eo	provides body form tball, S-M s two semes alarities of in ondition, co ot least, the special pro- n to these s ducation trai	for students t bouldering, f systems, step a ters of the firs ndividual sport ordination ab important role ogram of medic ports, the Inst inings with an a ulty or Univers	he following loorball, yog erobics, table it level of ed is, motor skil ilities, physic of sports ac cal physical itute offers t attractive pro	g sports acti a, power yog e tennis, tenr ucation stude ls, game acti- cal performa tivities is to e education to for those wh gram and org	ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interest ganises variou	vimming, boo l and chess. ster basic ch vill improve l tor performa mming illite d mitigate ur sted winter a us competitio	basketball, dy-building, aracteristics evel of their ance fitness. eracy and by fitness. and summer ons, either at
badminton indoor foo In the first and particu physical c Last but no means of a In addition physical eo the premis	provides body form tball, S-M s two semes alarities of in ondition, co ot least, the special pro- n to these s ducation trai	for students t bouldering, f systems, step a ters of the firs ndividual sport ordination ab- important role ogram of medic ports, the Inst inings with an a ulty or Univers	he following loorball, yog erobics, table it level of ed is, motor skil ilities, physic of sports ac cal physical itute offers t attractive pro	g sports acti a, power yog e tennis, tenr ucation stude ls, game acti- cal performa tivities is to e education to for those wh gram and org	ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interest ganises variou	bics, aikido, vimming, boo l and chess. ster basic ch vill improve l tor performa mming illite d mitigate ur sted winter a us competitio	basketball, dy-building, aracteristics evel of their ance fitness eracy and by fitness. and summer ons, either at
badminton indoor foo In the first and particu physical c Last but no means of a In addition physical eo the premis Recommen	provides body form tball, S-M s two semes alarities of in ondition, co ot least, the special pro- n to these s ducation trais es of the fac	for students t bouldering, f systems, step a ters of the firs ndividual sport ordination ab- important role ogram of medic ports, the Inst inings with an a ulty or Univers	he following loorball, yog erobics, table it level of ed is, motor skil ilities, physic of sports ac cal physical itute offers t attractive pro	g sports acti a, power yog e tennis, tenr ucation stude ls, game acti- cal performa tivities is to e education to for those wh gram and org	ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interest ganises variou	bics, aikido, vimming, boo l and chess. ster basic ch vill improve l tor performa mming illite d mitigate ur sted winter a us competitio	basketball dy-building aracteristics evel of their ance fitness eracy and by fitness. and summer ons, either a
badminton indoor foo In the first and particu physical c Last but no means of a In addition physical ec the premis Recommen Course lar Notes:	provides body form tball, S-M s two semes alarities of in ondition, co ot least, the a special pro- n to these s ducation trais es of the fac nded literat	for students t bouldering, f systems, step a ters of the firs ndividual sport ordination ab- important role ogram of medic ports, the Inst inings with an a ulty or Univers	he following loorball, yog erobics, table it level of ed is, motor skil ilities, physic of sports ac cal physical itute offers t attractive pro	g sports acti a, power yog e tennis, tenr ucation stude ls, game acti- cal performa tivities is to e education to for those wh gram and org	ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interest ganises variou	bics, aikido, vimming, boo l and chess. ster basic ch vill improve l tor performa mming illite d mitigate ur sted winter a us competitio	basketball dy-building aracteristics evel of their ance fitness eracy and by fitness. and summer ons, either a
badminton indoor foo In the first and particu physical c Last but no means of a In addition physical ec the premis Recommen Course lar Notes:	provides body form tball, S-M s two semes alarities of in ondition, co ot least, the special pro- n to these s ducation traines of the fac inded literat induge:	for students t bouldering, f systems, step a ters of the firs ndividual sport oordination abi important role ogram of medic ports, the Inst inings with an a ulty or Universit ture:	he following loorball, yog erobics, table it level of ed is, motor skil ilities, physic of sports ac cal physical of itute offers the attractive pro- sity or compe	g sports acti a, power yog e tennis, tenr ucation stude ls, game acti- cal performa tivities is to e education to for those wh gram and org	ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interest ganises variou	bics, aikido, vimming, boo l and chess. ster basic ch vill improve l tor performa mming illite d mitigate ur sted winter a us competitio	basketball dy-building aracteristics evel of their ance fitness eracy and by fitness. and summer ons, either a
badminton indoor foo In the first and particu physical c Last but no means of a In addition physical ec the premis Recommen Course lar Notes:	provides body form tball, S-M s two semes alarities of in ondition, co ot least, the special pro- n to these s ducation traines of the fac inded literat induge:	for students t bouldering, f systems, step a ters of the firs ndividual sport ordination ab- important role ogram of medic ports, the Inst inings with an a ulty or Univers	he following loorball, yog erobics, table it level of ed is, motor skil ilities, physic of sports ac cal physical of itute offers the attractive pro- sity or compe	g sports acti a, power yog e tennis, tenr ucation stude ls, game acti- cal performa tivities is to e education to for those wh gram and org	ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interest ganises variou	bics, aikido, vimming, boo l and chess. ster basic ch vill improve l tor performa mming illite d mitigate ur sted winter a us competitio	basketball dy-building aracteristics evel of their ance fitness eracy and by fitness. and summer ons, either a

Provides: Mgr. Marcel Čurgali, Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

Approved:

	P. J. Šafáril	K Oniversity in	II KUSICC				
Faculty: Fa	culty of Sci	ience					
Course ID: TVd/11	ÚTVŠ/	Course name:	Sports Acti	ivities IV.			
Course ty Recomme Per week:	pe: Practice nded cours 2 Per stud	d the method e-load (hours y period: 28 bined, present	s):				
Number of	ECTS cred	lits: 2					
Recommen	ded semest	ter/trimester	of the cours	se: 4.			
Course leve	el: I., I.II., I	 I.					
Prerequisit	ies:						
		completion: ticipation in c	lasses				
They have	vities in all th a great imp	heir forms prep pact on physics rengthen their	al fitness an	d performan	ce. Specializa	ation in spor	rts activities
Within the University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise	provides for body form, ball, S-M sy two semest larities of in ondition, coo t least, the in special prog to these sp ucation train es of the facu	bject, the Insti- or students the bouldering, fl ystems, step ac- ers of the firs- idividual sport ordination abi- mportant role gram of medic ports, the Insti- nings with an a- alty or Univers	ne following loorball, yog erobics, tabl t level of ed s, motor skil lities, physic of sports ac cal physical itute offers	g sports acti ga, power yog e tennis, tenr lucation stud- lls, game acti- cal performa tivities is to e education to for those wh ogram and org	ivities: aerob ga, pilates, sw nis, volleybal ents will mas vities, they w unce, and mot eliminate swi influence and o are interes ganises variou	bics, aikido, vimming, boo l and chess. ster basic cha ill improve l tor performa mming illite d mitigate un ted winter a us competitio	basketball, dy-building, aracteristics evel of their unce fitness. gracy and by fitness. and summer ons, either at
Recommen	ded literati	ure:					uniterpution.
~ -							
Course lan	guage:						
Course lan Notes:	guage:						
Notes: Course ass	essment	ad studente: 5	125				
Notes: Course ass	essment	ed students: 5 abs-B	125 abs-C	abs-D	abs-E	n	neabs

Provides: Mgr. Marcel Čurgali, Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Bc. Richard Melichar, Mgr. Petra Tomková, PhD.

Date of last modification: 13.05.2021

Approved:

University: P. J. Š	Safárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE SVK/01	V/ Course na	me: Student Sci	entific Conferen	ce	
Course type, scop Course type: Recommended Per week: Per s Course method:	course-load (ho study period:				
Number of ECTS	S credits: 4				
Recommended so	emester/trimes	ter of the cours	e: 6.		
Course level: I., I	I				
Prerequisities:					
Conditions for co	ourse completio	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	:				
Notes:					
Course assessme Total number of a		s: 289			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:	L				
Date of last modi	fication: 03.05	.2015			
Approved:					

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: 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: pre	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:	
Conditions for course 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	burse: ficulty of waterways fting ning using an empty canoe earrying n the water without a shore contact be out of the water
Recommended litera	ture:
Course language:	
Notes:	

Course assessment 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	
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
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:	
Conditions for course 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 Brief outline of the c 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. course: 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 Brief outline of the c 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. Fourse: 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 Brief outline of the c 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. course: 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. Ladis	lav Kručanica, PhD.
Date of last modification: 15.03.2019	
Approved:	

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ MSB/10	Course name: System Biology Modeling
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 0 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 0
Number of ECTS cr	edits: 3
Recommended seme	ster/trimester of the course: 5.
Course level: I.	
Prerequisities:	
Conditions for cours Solving intermediate Exam.	e completion: motivating challenges given at the lectures.
Learning outcomes: To provide an overv field of systems biolo	iew of the computational techniques and achievable results in the emerging ogy.
and Anfinsen princip procedures and their Biological polymers Biological databases as an example of non Molecular interaction approaches. Stochas	modeling. Physical structure of biopolymers. Foldamers, Levinthal paradox le. Essentials of molecular modeling and molecular simulations. Examples of
ed. Chapman and Ha Campbell, A. Malcol Bioinformatics*. 2nd	duction to Systems Biology: Design Principles of Biological Circuits*. 1st
Course language:	
Notes:	

Course assessm Total number of	nent f assessed studen	ts: 200					
А	В	С	D	Е	FX		
92.0	6.0	2.0	0.0	0.0	0.0		
Provides: doc. RNDr. Jozef Uličný, CSc.							
Date of last modification: 03.05.2015							
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 cou Per week: 2 / 2 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 6
Recommended seme	ester/trimester of the course: 5.
Course level: I., II.	
Prerequisities:	
Conditions for cours Active participation	•

Preparation of oral presentation to selected topic.

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 assessm Total number of	ent f assessed studen	ts: 948						
А	В	С	D	Е	FX			
23.95	23.31	24.26	18.78	7.91	1.79			
Provides: prof.	Provides: prof. RNDr. Ľubomír Kováč, CSc.							
Date of last modification: 05.10.2017								
Approved:								

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚBEV ZO1/03	V/ Course na	ime: Zoology I			
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	credits: 5				
Recommended se	emester/trimes	ster of the cours	se: 5.		
Course level: I.					
Prerequisities: Ú	BEV/PMZ/10				
Conditions for co	ourse completi	on:			
Learning outcom Basis of Invertebraries relations.		Importance and	function of chose	n individual taxor	ns. Phylogenetic
Brief outline of th Anatomy, morpho Cnidaria, Plathel Characteristic spe	ology and deve minthes, Nem			_	-
Recommended lit	terature:				
Course language:					
Notes:					
Course assessmen Total number of a		ts: 1170			
A	В	С	D	E	FX
8.03	15.38	22.14	21.88	23.85	8.72
Provides: doc. RN Parimuchová, PhD		Panigaj, CSc., R	NDr. Peter Ľuptá	čik, PhD., RNDr.	Andrea
Date of last modi	fication: 14.11	.2016			
Approved:					

University: P. J. Šat	fárik Universi	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ ZOO1/03	Course na	me: Zoology II			
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ure / Practice urse-load (ho r study perio	ours):			
Number of ECTS of	credits: 5				
Recommended sem	nester/trimes	ter of the cours	e: 6.		
Course level: I.					
Prerequisities: ÚBl	EV/PMZ/10				
Conditions for cou	rse completio	on:			
Learning outcomes Fundamental inform		onomy and mor	phology of verteb	orates	
Brief outline of the Systematic and phy amphibians, reptiles	ylogenetic rel	1	ertebrate. Review	v of important g	roups of fishes
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of ass		ts: 1036			
A	В	С	D	Е	FX
22.68	28.76	18.92	15.44	9.75	4.44
Provides: doc. RNI	Dr. Marcel Uh	rin, PhD., RND	r. Peter Ľuptáčik,	PhD., RNDr. M	onika Balogova
PhD.					
	cation: 03.05	.2015			