

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: CJP/AJD1/07		Course name: English Language for PhD Students 1			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 1.					
Course level: III.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 525					
N	Ne	P	Pr	abs	neabs
0.0	0.0	58.29	0.0	41.71	0.0
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 04.10.2016					
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: CJP/AJD2/07		Course name: English Language for PhD Students 2			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 2.					
Course level: III.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 528					
N	Ne	P	Pr	abs	neabs
0.0	0.0	91.86	1.52	6.63	0.0
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 04.10.2016					
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ BSM/04	Course name: Biochemistry of signal molecules.
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 20s Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 13	
N	P
0.0	100.0
Provides: prof. RNDr. Beňadik Šmajda, CSc.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ CDC/04	Course name: Citation in scientific journal published in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 5	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ CM/04	Course name: Citation in monograph
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 20	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 0	
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ CRO1/03		Course name: Chronophysiology					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present							
Number of credits: 5							
Recommended semester/trimester of the course:							
Course level: II., III.							
Prerequisites:							
Conditions for course completion: Oral examination.							
Learning outcomes: To outline the problematics of the time organisation of biological processes and their significance in evolution of living organisms							
Brief outline of the course: Time structure of physiological variables in animals and man. Basic notions and categories of biological rhythms. The significance of biological rhythms in the evolution of living things. The genetic basis and molecular mechanisms of biological clocks in animals. The endogenous character of biological rhythms. The multioscillatory system of the organism. The significance of circadian and seasonal rhythms for the animal and human life. The application of chrono-physiological principles.							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 82							
A	B	C	D	E	FX	N	P
21.95	21.95	29.27	10.98	4.88	0.0	0.0	10.98
Provides: prof. RNDr. Beňadik Šmajda, CSc., RNDr. Natália Pipová, PhD.							
Date of last modification: 24.02.2017							
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc. Guaranteeprof. RNDr. Beňadik Šmajda, CSc. Co-guaranteedoc. MVDr. Mária Miklošová, PhD.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ CZC/04	Course name: Citation in scientific journal published abroad
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 33	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/DK/04	Course name: Conference in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 125	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ DKC/04	Course name: Journals registered in the Current Contents Connect database and published in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 15	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 16	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/DKZU/04	Course name: International conference taking place in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 4	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 105	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ DNC/04	Course name: Journals not registered in the Current Contents Connect database and published in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 37	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/DZS/14	Course name: Doctoral exam
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites: ÚBEV/VEK3/11	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 34	
N	P
2.94	97.06
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ EFYZ/04	Course name: Environmental physiology
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: present	
Number of credits: 4	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 7	
N	P
0.0	100.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ EKC1/00		Course name: Ecology of mammals					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present							
Number of credits: 3							
Recommended semester/trimester of the course:							
Course level: II., III.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes: To understand a) ecological position of mammal groups in ecosystems and their importance in ecological networks; b) anthropogenic impacts on mammals and their coenoses; c) population ecology of some mammal groups							
Brief outline of the course: Factors of environment. Temperature. Water. Snow. Light. Adaptations. Hypothermy. Hibernation, aestivation, letargy. Resources. Food. Food strategies and specialisations. Habitat and niche. Interactions. Commensalism. Mutualism. Cooperation. Competition. Predator and prey. Mammals and plants. Food webs. Territoriality. Home range. Lek. Metapopulations. Reproduction. Mating systems. Oestrus. r- and K- strategy. Monogamy, polygamy. Dispersion. Migration. Habitat selection. Individual. Population. Natality, mortality. Cohorts. Population dynamics and cycles. Gradations. Mammal diversity. Island biogeography. Macroecology. Gradients. Long-term studies. Habitat fragmentations. Synanthropy. Conservation of mammals. Wind energy. Mammal introductions. Repatriations, reintroductions. Expansions. Global climate changes and mammals. Protected areas. Vulnerable species. Minimal viable population.							
Recommended literature: Feldhamer G., Drickamer L., Vessey SH., Merritt JF., 2000. Mammalogy: Adaptation, Diversity and Ecology. McGraw Hill Hardback, 563 pp. Vlasák P., 1986. Ekologie cicavců. Academia, Praha, 292 pp.							
Course language:							
Course assessment Total number of assessed students: 233							
A	B	C	D	E	FX	N	P
61.37	18.88	12.88	2.58	2.58	0.0	0.0	1.72
Provides: doc. RNDr. Marcel Uhrin, PhD.							
Date of last modification: 24.02.2017							

Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ END/04	Course name: Endocrinology
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 Per study period: 14 / 0s Course method: present	
Number of credits: 3	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: Oral examination.	
Learning outcomes: To broaden the student's knowledge of endocrine organ and tissue function at all levels of the animal and human organism	
Brief outline of the course: Chemical structure of hormones, general principles of hormone action. Hormone biosynthesis, secretion, transport and degradation. Hormone-receptor interaction, receptor types, transmission of hormonal signal into the cell. Neuroendocrinology, hypothalamic-pituitary system. Hormones of thyroid gland, regulation of thyroid secretion. Parathyroid glands, hormonal regulation of calcium and phosphorus homeostasis. Hormones of adrenal glands – adrenal cortex and medulla. Pancreatic islets, regulation of metabolic processes. Hormones and regulatory peptides of gastrointestinal tract. Neuroendocrine regulation of food intake and body mass, endocrine activity of adipose tissue. Hormones of male and female reproduction, hormonal regulation of pregnancy and lactation. Pineal gland. Principles of hormonal integration	
Recommended literature: 1. Goodman H.M.: Basic Medical Endocrinology. Academic Press 2009 2. Jameson J.L.: Harrison's Endocrinology. McGraw-Hill Companies Inc., 2010 3. Gardner D.G., Shoback D.: Greenspan's Basic and Clinical Endocrinology. McGraw-Hill Companies Inc., 2011	
Course language:	
Course assessment Total number of assessed students: 8	
N	P
0.0	100.0
Provides: doc. RNDr. Monika Kassayová, CSc.	
Date of last modification: 24.02.2017	

Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ ETO/04	Course name: Etológia
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: present	
Number of credits: 4	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 12	
N	P
0.0	100.0
Provides: RNDr. Igor Majláth, PhD., RNDr. Natália Pipová, PhD.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ EXON/04	Course name: Experimental oncology
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 15 Per study period: 210 Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: Oral examination.	
Learning outcomes: To clarify the general mechanism and principles of neoplastic transformation and possibilities of its modulation in experimental animals.	
Brief outline of the course: Stages of malignant transformation. Modulation of signal transduction in carcinogenesis, oncogenes, tumor suppressor genes. Modulation of malignant transformation by environmental factors. Possibilities of cancer disease prevention. Testing of chemopreventive substances. In vitro and in vivo models used in experimental oncology	
Recommended literature: Weinberg R.A, The biology of cancer. Garland Science, Taylor and Francis Group, LLC, 2007. Scientific journal articles.	
Course language:	
Course assessment Total number of assessed students: 8	
N	P
0.0	100.0
Provides: doc. RNDr. Bianka Bojková, PhD.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ FYZ/04	Course name: Animal and Human Physiology
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: present	
Number of credits: 6	
Recommended semester/trimester of the course: 1.	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 50	
N	P
0.0	100.0
Provides: prof. RNDr. Beňadik Šmajda, CSc.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ IMU/04	Course name: Immunology
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 20s Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 28	
N	P
0.0	100.0
Provides: RNDr. Vlasta Demečková, PhD.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring School for PhD Students
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 115	
abs	n
100.0	0.0
Provides: doc. RNDr. Vladimír Zeleňák, PhD.	
Date of last modification: 13.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ MET/04	Course name: Cell Metabolism
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 Per study period: 28 / 0s Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: Oral examination	
Learning outcomes: Broadening of the basic knowledge of metabolic processes for homeostasis maintenance in animal and human organism	
Brief outline of the course: Carbohydrates – structure, biological significance of mono-, di-, polysaccharides and its derivatives, pathways of carbohydrate synthesis and degradation, glycaemia regulation, clinical aspects of carbohydrate metabolism. Lipids – categories, metabolism, lipogenesis, lipolysis, the metabolic roles of the liver and adipose tissue. Ketogenesis. Regulation of carbohydrate and lipid metabolism. Plasma lipoprotein metabolism, hyper- and hypolipoproteinemias. Cholesterol metabolism, biochemical and clinical aspects of atherogenesis and atherosclerosis. Arachidonic acid – biological significance, formation and functions of eicosanoids, clinical correlations. Reactive oxygen and nitrogen species, oxidative metabolism, antioxidative systems. Metabolic pathways of protein degradation and amino acid transformation, special products of amino acid metabolism. Nitrogen metabolism, urea biosynthesis. Metabolism of porphyrins, purines and pyrimidines. Water metabolism and its disturbances. Metabolism of solutes. Mechanisms of metabolic processes regulation.	
Recommended literature: 1. Devlin T.M.: Textbook of Biochemistry with Clinical Correlations. Wiley-Liss 2006 2. Bhagavan N.V., Chung-Eun Ha: Essentials of Medical Biochemistry. Elsevier 2011 3. Newsholme E., Leech T.: Functional Biochemistry in Health and Disease. Wiley-Blackwell 2010	
Course language:	
Course assessment Total number of assessed students: 26	
N	P
0.0	100.0

Provides: doc. RNDr. Monika Kassayová, CSc.
Date of last modification: 24.02.2017
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ MK/04	Course name: International Conference
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 6	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 186	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ NAT/10		Course name: Neuroanatómia					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 0 Per study period: 28 / 0 Course method: present							
Number of credits: 3							
Recommended semester/trimester of the course:							
Course level: II., III.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes: To provide the students with basic knowledge, principles and function of human nervous system.							
Brief outline of the course: Introduction to neuroanatomy, development, classification of the Nervous System, dividing of the Nervous System (CNS and PNS), Spinal Cord and Spinal Nerves (structure, reflexes, gray matters and intrinsic pathways, Ascending, Descending Tracts), Brain Stem and Cranial Nerves, Cerebellum, Diencephalon, Telencephalon, Limbic System, Cerebrospinal Fluid System, Vegetative Nervous System, Functional Systems (Motor systems - pyramidal tract, extrapyramidal Motor System, motor pathway), (Sensory system - pathway of Epicritic Sensibility, Pathway of Protopathic Sensibility, Optic Pathway, Auditory Tract, Vestibular Tract)							
Recommended literature: Kahle W., Leonhardt H., Platzer W.: Color Atlas and Textbook of Human Anatomy, Volume 3. Nervous System and Sensory Organs, 1993 Georg Thieme Verlag Stuttgart, New York Hendelman W.J.: Atlas of functional neuroanatomy CRC Press LLC, 2000 Kopf-Mäier P.: Wolf-Heideggers Atlas of Human Anatomy Karger, 2000 Miklošová M.: Anatómia PF, UPJŠ, 2011, Equilibria Haines, D.E.: Neuroanatomy, Lippincott Williams, Wilkins, 2011							
Course language:							
Course assessment Total number of assessed students: 25							
A	B	C	D	E	FX	N	P
20.0	12.0	8.0	0.0	0.0	4.0	0.0	56.0
Provides: RNDr. Juraj Ševc, PhD.							
Date of last modification: 24.02.2017							
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc. Guaranteeprof. RNDr. Beňadik Šmajda, CSc. Co-guaranteedoc. MVDr. Mária Miklošová, PhD.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/NEU/04	Course name: Neuronal basis of behavior.
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 15s Course method: present	
Number of credits: 6	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: Oral examination.	
Learning outcomes: To provide students with the most recent knowledge on the biological basis of behaviour.	
Brief outline of the course: Neuronal mechanisms of learning and memory. Neurochemistry of emotions. The role of the left and right hemispheres in control of various types of behaviour. Neurodegenerative processes in the CNS. Biological basis of pathological deviations of behaviour in humans. Neurophysiology of addiction.	
Recommended literature: A.Wickens: Foundations of Biopsychology. Pearson/Prentice Hall, Harlow,London,....,2005. T.J.Carew: Behavioral Neurobiology. Sinauer Assoc.,Sunderland (USA), 2000. R.P.Kesner, J.L.Martinez: Neurobiology of learning and memory. Academic Press,Elsevier, Amsterdam,.....,2007.	
Course language:	
Course assessment Total number of assessed students: 11	
N	P
0.0	100.0
Provides: prof. RNDr. Beňadik Šmajda, CSc.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ NZ/04	Course name: Non-reviewed collections of papers and monographs published abroad or in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 108	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ ODZP/14	Course name: Defence of Doctoral Thesis
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 30	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 27	
N	P
0.0	100.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ PDS/14	Course name: Writing Dissertation Work
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 15	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 37	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ PFYZ/15		Course name: Comparative animal physiology					
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credits: 3							
Recommended semester/trimester of the course:							
Course level: II., III.							
Prerequisites:							
Conditions for course completion: Performance of oral examination.							
Learning outcomes: The students receive an overview on the significance of physiological adaptational mechanisms to the various life conditions on the individual levels of the phylogenesis.							
Brief outline of the course: Phylogeny of food acquisition, processing and utilization in animals. Energy metabolism (factors influencing the metabolic rate; physiology of physical work; principles of aerobic performance in various species). Thermal housekeeping (poikilothermic and homoiothermic strategies, life in cool environment). The phylogenic development of the nervous system. Sensoric abilities of the animals. Evolution of the brain. Endocrinal and neuroendocrinal regulation of body functions in evertebrates and vertebrates. Reproductive systems of the animals. Navigation in animals. Motoric basics of animal behaviour. The mechanisms of the exchange of respiratory gases in a phylogenetic view. Comparison of the circulatory systems in animals. Water- and mineral housekeeping in terrestrial and aquatic animals. Excretory systems of the animals.							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 12							
A	B	C	D	E	FX	N	P
50.0	25.0	0.0	8.33	0.0	0.0	0.0	16.67
Provides: prof. RNDr. Beňadik Šmajda, CSc.							
Date of last modification: 24.02.2017							
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ POVK/04	Course name: Work in Organizing Committee of Conference
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 41	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 1	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 405	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 1	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 405	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ RBI/04	Course name: Radiation biology
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 15s Course method: present	
Number of credits: 4	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 0	
N	P
0.0	0.0
Provides: prof. RNDr. Beňadik Šmajda, CSc.	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ RZ/04	Course name: Peer-reviewed collections of papers and monographs published abroad or in in the country of residence
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 242	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ SCI/04	Course name: Citation registered in Science Citation Index
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 20	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 38	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/SSOL/04	Course name: Samostatné štúdium odbornej literatúry
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 224	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ VMESd/17	Course name: Vývinové a molekulárne mechanizmy v evolúcii stavovcov
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 0	
N	P
0.0	0.0
Provides: doc. RNDr. Martin Kunderát, Ph.D.	
Date of last modification: 14.09.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ VPBB/11	Course name: Review of a Bachelor Thesis
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 15	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ VPSV/04	Course name: Supervision of Student's Scientific Activity
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 6	
Recommended semester/trimester of the course: 6., 8.	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 12	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ ZKC/04	Course name: Journals registered in the Current Contents Connect database and published abroad
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 20	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 214	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ ZNC/04	Course name: Journals not registered in the Current Contents Connect database and published abroad
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 48	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ ZSP/04	Course name: Realisation of study/research stay abroad
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course: 6., 8.	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 84	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Co-guaranteedoc. RNDr. Monika Kassayová, CSc.Guaranteeprof. RNDr. Beňadik Šmajda, CSc.Co-guaranteedoc. MVDr. Mária Miklošová, PhD.	