

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KFaDF/AFS/05		Course name: Ancient Philosophy and Present Times			
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: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 31					
A	B	C	D	E	FX
80.65	6.45	6.45	0.0	6.45	0.0
Provides: Doc. PhDr. Peter Nezník, CSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ BFR/14		Course name: Botany and Plant Physiology			
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: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 17					
A	B	C	D	E	FX
41.18	23.53	23.53	5.88	5.88	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ BRS1/03		Course name: Biology of Plant Symbioses					
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:							
Learning outcomes: Introduction to biology and ecology of plant symbioses.							
Brief outline of the course: Morphological, cytological, physiological and biochemical aspects of the best known examples of plant symbioses. Lichens, mycorrhiza, symbiosis of flowering plants with nitrogen fixing bacteria, coral reefs symbioses and endosymbioses.							
Recommended literature: Van den Hoek, C. a kol. 1995: Algae, an introduction to phycology, Deacon, J.W. 1997: Modern Mycology							
Course language:							
Course assessment Total number of assessed students: 380							
A	B	C	D	E	FX	N	P
97.11	0.0	0.0	0.0	0.0	0.0	0.0	2.89
Provides: prof. RNDr. Martin Bačkor, DrSc.							
Date of last modification: 24.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/ BTR1/06		Course name: Plant Biotechnology					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 3 Per study period: 28 / 42 Course method: present							
Number of credits: 6							
Recommended semester/trimester of the course:							
Course level: I., II., III.							
Prerequisites:							
Conditions for course completion: written test, protocols, oral examination							
Learning outcomes: To gain theoretical and practical knowledge on plant tissue culture in vitro.							
Brief outline of the course: Genetics and physiology of plant cell and tissue culture, protoplasts, embryoids and organs cultured in vitro under sterile conditions. Use of tissue culture in research and praxis. Cryopreservation of plant cells and tissues. Immobilised plant systems. Genetic transformation of plants and expression of foreign genes.							
Recommended literature: Slater A. et al.: Plant Biotechnology. Oxford University Press 2008, 376 pp. Wink M. (Ed.): An Introduction to Molecular Biotechnology. Willey-Blackwell, 2011, 601 pp. Periodicals and Internet sources							
Course language:							
Course assessment Total number of assessed students: 135							
A	B	C	D	E	FX	N	P
37.04	18.52	15.56	7.41	12.59	3.7	0.0	5.19
Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Nigutová, PhD.							
Date of last modification: 24.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚBEV/CK1/03		Course name: Cytogenetics and Karyology					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present							
Number of credits: 4							
Recommended semester/trimester of the course:							
Course level: II., III.							
Prerequisites:							
Conditions for course completion: written tests, protocols, oral examination							
Learning outcomes: To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and molecular cytology. To get acquainted in detail with the results coming from human genome mapping.							
Brief outline of the course: Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genome project - what we can learn from it?							
Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources							
Course language:							
Course assessment Total number of assessed students: 1107							
A	B	C	D	E	FX	N	P
24.93	14.81	15.54	14.72	17.52	11.38	0.0	1.08
Provides: prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.							
Date of last modification: 24.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

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: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KFaDF/DF2p/03		Course name: History of Philosophy 2 (General Introduction)			
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: 4					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 734					
A	B	C	D	E	FX
60.63	13.9	12.67	8.72	3.41	0.68
Provides: doc. PhDr. Pavol Tholt, PhD., mim. prof., Doc. PhDr. Peter Nezník, CSc., PhDr. Katarína Mayerová, PhD., doc. Mgr. Róbert Stojka, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ DNR/06		Course name: Dendrology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course: Basic knowledge on autochthonous and allochthonous woody plants. Morphological signs of woody plants, ecological requirements, geographic distribution. Intraspecific variability, growth forms and their use. Selected chapters from seed production and tree nursery of woody plants. Application of woody plants in garden and landscape architecture in urban environment. Protected and memorial trees, databasis of occurrence, measures of protection and treating. Manifestations of expansion and invasion of woody plants.					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 53					
A	B	C	D	E	FX
62.26	16.98	9.43	11.32	0.0	0.0
Provides: doc. RNDr. Sergej Mochnacký, CSc., Ing. Peter Kelbel, Dr.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ DPO/14		Course name: Diploma Thesis and its Defence			
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: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 122					
A	B	C	D	E	FX
54.1	28.69	11.48	4.1	1.64	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/EB1/99		Course name: Evolutionary Biology			
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: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion: written test					
Learning outcomes: To understand the fundamentals of the theory of evolution, the evidence supporting contemporary views on the origin and evolution of living organisms on Earth and the mechanisms of evolution.					
Brief outline of the course: Historical overview of evolutionary theories. The origin of life. Elements of evolution: mutations, population waves, and isolation. Natural selection. Molecular evolution. Adaptations and their classification. Concept of species. Macroevolution. Evolution of functions and organs, evolution of onthogeny. Phylogeny of animals. Evolutionary progress. Anthropogenesis. Plant diversity. Primary and secondary speciation of plants. Reproduction-isolation mechanisms. Hybridisation and introgression of plants. Polyploidy. Reproductive systems in plants.					
Recommended literature: Futuyama, D.J.: Evolutionary biology, Sinauer Associates, Sunderland, 3rd ed., 1997. Dobzhansky T. et al.: Evolution. San Francisco 1977.					
Course language:					
Course assessment Total number of assessed students: 514					
A	B	C	D	E	FX
11.67	23.54	23.74	25.1	14.01	1.95
Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ EFZ1/03		Course name: Animal and human ecophysiology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion: Seminar. Test.					
Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects.					
Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adaptations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor suppressor genes. Cancer prevention. Prions.					
Recommended literature: 1. Wilmer P and co.: Environmental Physiology of Animals. Blackwell Publishing Inc., 2004 2. Chown SL, Nicolson SW: Insect Physiological Ecology. Oxford University Press 2004					
Course language:					
Course assessment Total number of assessed students: 394					
A	B	C	D	E	FX
14.21	22.34	22.34	23.1	16.75	1.27
Provides: doc. RNDr. Bianka Bojková, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ EKR1/03		Course name: Plant Ecology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: Introduction to Plant Ecology.					
Brief outline of the course: Basic problems of plant integration in the environment, ecology of plant populations, interactions between individuals and population, dynamics of the populations. Interactions between productivity of populations and synecology. Ecology of communities and ecosystems.					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 235					
A	B	C	D	E	FX
72.34	17.02	6.38	2.55	1.7	0.0
Provides: prof. RNDr. Martin Bačkor, DrSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ ER1/01		Course name: Plant Embryology			
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.					
Prerequisites:					
Conditions for course completion: Oral examination/ recognition					
Learning outcomes: To provide the students with the general principles of embryogenesis of the seed plants					
Brief outline of the course: Life cycle of a typical angiosperms plants. Sporophyte and gametophyte. Development of female gametophyte. Ovule, nucellus and integuments. Megasporogenesis. Embryo sac. Egg, synergids, antipodals and polar nuclei. Types the embryo sacs. Development of male gametophyte. Microsporogenesis. Pollen grain. Generative and tube nucleus. Pollen tube. Pollination and fertilization. Double fertilization. Endosperm. Embryogenesis (mono- and dicotyledonous plants). Plumule, cotyledones, radicle. Development of the seed. Apomixis. Development the embryoids in vitro.					
Recommended literature: Johri, B.M. (1984) Plant embryology: Embryogeny of Angiosperms. Springer-Verlag, Berlin, Heidelberg. Raven, P.H., Evert, R.F. and Eichhorn S.E. (2003) Biology of Plants. W.H. Freeman and Company, New York					
Course language:					
Course assessment Total number of assessed students: 120					
A	B	C	D	E	FX
45.83	30.0	14.17	5.83	4.17	0.0
Provides: RNDr. Lenka Martonfiová					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ ETO1/03		Course name: Ethology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion: Recognition. Written examination.					
Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect in biological sciences					
Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space and animal migrations. Communication systems of animals. Emotions. Aggression in animal and human behaviour. Abnormal forms of behaviour					
Recommended literature: Franck, D.: Verhaltensbiologie. Einführung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press, 1992					
Course language:					
Course assessment Total number of assessed students: 889					
A	B	C	D	E	FX
39.37	24.75	26.32	7.54	1.91	0.11
Provides: RNDr. Igor Majláth, PhD., RNDr. Natália Pipová, PhD., RNDr. Terézia Kisková, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ FG/14	Course name: Functional genomics
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present	
Number of credits: 5	
Recommended semester/trimester of the course: 2.	
Course level: II., III.	
Prerequisites:	
Conditions for course completion: Active participation in practical and theoretical courses	
Learning outcomes: Functional genomics attempts to answer questions about the function of DNA at the levels of genes, RNA transcripts, and proteins. A key characteristic of functional genomics studies is their genome-wide approach to these questions, generally involving high-throughput methods rather than a more traditional “gene-by-gene” approach. The outcome of this course will be understanding of the approaches and methods used in functional genomics and their application in research as well as in practice.	
Brief outline of the course: <ul style="list-style-type: none"> • Introduction to functional genomics • Genome and functional genomics: sequenced model organisms, conceptual and methodological input of genome sequencing, structural vs. functional genome annotation • Genome-wide reverse genetics: techniques to create collections of genome-wide mutants and their use in functional genomics • Transcriptomics: methods to obtain transcriptome data, data analysis, data mining • Proteomics: methods to obtain proteome data, quantitative vs. qualitative proteomics, data analysis, data mining, protein networks • Metabolomics: methods to obtain metabolomic data, quantitative vs. qualitative metabolomics, data analysis, data mining • Biological databases and other resources for functional genome analysis • A real-case applications of the functional genomics 	
Recommended literature: Internet sources, PowerPoint Presentation	
Course language: English	
Course assessment Total number of assessed students: 68	

A	B	C	D	E	FX	N	P
30.88	23.53	20.59	5.88	11.76	2.94	0.0	4.41
Provides: RNDr. Katarína Bruňáková, PhD., RNDr. Andrea Kimáková, PhD., RNDr. Katarína Nígutová, PhD., RNDr. Linda Petijová, PhD., RNDr. Andrea Schreiberová, PhD.							
Date of last modification: 24.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ FG1/03		Course name: Phytogeography			
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: I., II.					
Prerequisites:					
Conditions for course completion: Written work. Exam.					
Learning outcomes: To obtain theoretical and practical knowledge from phytogeography.					
Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area disjunctions, relics, endemites, vicariancy, floral elements. Main course of florogenesis since paleozoic to quaternary ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of Earth. Vegetation geography: from tropical rainforests to tundras. Changes of earth vegetation and their study. Geographical origin of cultivated plants. Practices: Fieldworks. Preparing of maps. Phytogeographical division of Slovakia. Students seminar works on phytogeography.					
Recommended literature: Hendrych R.: Fytografie. - SPN, Praha 1984. Brown J. H., Lomolino M. V.: Biogeography. - Sinauer Associates, Sunderland, 1998.					
Course language:					
Course assessment Total number of assessed students: 324					
A	B	C	D	E	FX
39.81	21.91	21.3	8.33	7.72	0.93
Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčík, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ FRV1/03		Course name: Physiology of Plant Growth and Development			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: To learn about basic methods and approaches in physiology of plant growth and development					
Brief outline of the course: Growth and morphogenesis: phases and kinetics; differentiation. Hormones: metabolism and transport, physiological and developmental effects; auxin, gibberellins, cytokinins, ethylene and abscisic acid. Photomorphogenesis and etiolation. Phytochrome: properties, physiology, ecological functions, molecular mechanisms. Blue-light responses. Rhythms. Germination and dormancy. Regulation of flowering. Senescence and programmed cell death. Orientation in space: phototropism, gravitropism and nastic movements. Stress physiology.					
Recommended literature: Taiz L., Zeiger E., Plant physiology. Fifth edition. Sinauer ass., Sunderland 2010					
Course language:					
Course assessment Total number of assessed students: 99					
A	B	C	D	E	FX
38.38	20.2	16.16	13.13	9.09	3.03
Provides: Mgr. Silvia Gajdošová, Ph.D., Ing. Robert Gregorek					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ GB1/03		Course name: Geobotany			
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: 4					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 49					
A	B	C	D	E	FX
46.94	22.45	16.33	8.16	6.12	0.0
Provides: doc. RNDr. Sergej Mochnacký, CSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KFaDF/IH2/03		Course name: Idea Humanitas 2 (General Introduction)			
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: 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 8					
A	B	C	D	E	FX
87.5	12.5	0.0	0.0	0.0	0.0
Provides: Doc. PhDr. Peter Nezník, CSc.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/IMU1/03		Course name: Immunology			
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: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Recognition. Oral examination.					
Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highlights the role and importance of immunology in various human diseases. The aim of Immunology lessons is the presentation of the organization and function of the immune system, as well as the comprehension of complex molecular and cellular interactions during the induction of immune responses.					
Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induced Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antigen Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement, Clinical immunology: Allergy and other Hypersensitivities, Autoimmunity and Transplantation, Tumor Immunology, Disorders of The Immune System.					
Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 2004 Murphy, K. (2012): Janeway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell					
Course language:					
Course assessment Total number of assessed students: 834					
A	B	C	D	E	FX
38.25	24.22	25.54	7.07	1.56	3.36
Provides: RNDr. Vlasta Demečková, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ IOR/09		Course name: Plant Protection			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisites: ÚBEV/VEK1/03					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 41					
A	B	C	D	E	FX
4.88	29.27	24.39	19.51	21.95	0.0
Provides: prof. RNDr. Martin Bačkor, DrSc., Ing. Martin Suvák, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KFaDF/KDF/05		Course name: Chapters from History of Philosophy of 19th and 20th Centuries (General Introduction)			
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: 2.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 10					
A	B	C	D	E	FX
50.0	20.0	10.0	0.0	10.0	10.0
Provides: doc. PhDr. Pavol Tholt, PhD., mim. prof.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: KPPaPZ/KK/07	Course name: Communication and Cooperation	
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: 3.		
Course level: II.		
Prerequisites:		
Conditions for course completion:		
Learning outcomes:		
Brief outline of the course:		
Recommended literature:		
Course language:		
Course assessment Total number of assessed students: 281		
abs	n	z
98.22	1.78	0.0
Provides: Mgr. Ondrej Kalina, PhD., Mgr. Lucia Hricová, PhD.		
Date of last modification: 16.02.2017		
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.		

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 329	
abs	n
47.11	52.89
Provides: MUDr. Peter Dombrovský, Mgr. Marek Valanský	
Date of last modification: 23.02.2017	
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ LKSp/13	Course name: Summer Course-Rafting of TISA River
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 126	
abs	n
45.24	54.76
Provides: Mgr. Peter Bakalár, PhD.	
Date of last modification: 23.02.2017	
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ LR1/03		Course name: Healing Plants			
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: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: To provide the students with healing principles of plants and production of drug.					
Brief outline of the course: History and present state. Pharmacotherapeutical and toxic effects of drug. Active substances. Inheritance, chemotypes and breeding. Cultivation and post-harvest technology. Essential oil and extracts production. Special part: Claviceps, Angelica, Valeriana, Drosera, Levandula. Digitalis, Hypericum, Althaea, Calendula, Silybum, Chamomilla, Arctostaphylos, Melissa, Mentha, Hyssopus, Thymus, Salvia, Agrimonia, Rosa, Tilia, Achillea, Plantago, Panax and tonic plants.					
Recommended literature: Pahlow M.: Healing plants. New York 1993					
Course language:					
Course assessment Total number of assessed students: 332					
A	B	C	D	E	FX
24.1	22.29	21.39	12.05	10.54	9.64
Provides: RNDr. Matej Dudáš, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ MR1/03		Course name: Plant Metabolism			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Examen					
Learning outcomes: To provide the students with pathways of biosynthesis in plant and functions of primary and secondary metabolites					
Brief outline of the course: Photosynthesis: structure of photosynthetic apparatus, light absorption, electron and proton transport, photophosphorylation. Calvin cycle, rubisco and photorespiration. C4 and CAM plants. Synthesis of starch and sucrose. Respiration: glycolysis, citric acid cycle, electron transport and ATP synthesis. Lipid biosynthesis and conversion into carbohydrates. Polyacetylenes. Nitrogen metabolism: fixation, nitrate assimilation, ammonium conversion to amino acids. Sulfur assimilation and metabolism. Terpenes: biosynthesis and functions. Phenolic compounds: pathways of biosynthesis, phenylpropanes, flavonoids and lignins. Alkaloids. Mechanisms of plant defense.					
Recommended literature: Lawlor D. W. Photosynthesis. Third edition. BIOS, Oxford 2001; Taiz L., Zeiger E., Plant physiology. Fifth edition. Sinauer ass., Sunderland 2010					
Course language:					
Course assessment Total number of assessed students: 103					
A	B	C	D	E	FX
26.21	16.5	17.48	16.5	20.39	2.91
Provides: doc. RNDr. Peter Paľove-Balang, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ MVR/03		Course name: Mineral Nutrition			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: Increase of knowledge about plant-soil interactions, nutrient uptake and the role of individual nutrients in plants.					
Brief outline of the course: Soil environment, effect of soil on plant growth and development. Nutrient uptake by plant roots. Symbiosis in plant nutrition. Macroelements, microelements and their role in plants. Transport and assimilation of nitrogen, sulphur and phosphate.					
Recommended literature: Marschner H.: Mineral Nutrition of Higher Plants. 2nd ed. Academic Press, London 1995. Rowell D.L.: Soil Science : Methods and applications. Longman Scientific & Technical, Harlow, UK, 1994.					
Course language:					
Course assessment Total number of assessed students: 51					
A	B	C	D	E	FX
50.98	27.45	17.65	0.0	1.96	1.96
Provides: doc. RNDr. Peter Paľove-Balang, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: Dek. PF UPJŠ/PPZ/13		Course name: Personality Development and Key Competences for Success on a Labour Market			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 14s Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course: 1., 3.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 39					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: RNDr. Peter Stefányi, PhD.					
Date of last modification: 13.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/PPZMg/12		Course name: Psychology and Health Psychology (Master's Study)			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present					
Number of credits: 4					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 226					
A	B	C	D	E	FX
19.47	25.22	25.66	13.27	15.93	0.44
Provides: PhDr. Anna Janovská, PhD., Mgr. Lucia Hricová, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ SDPa/15	Course name: Diploma Thesis Seminar
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: 1.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 121	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ SDPb/15	Course name: Diploma Thesis Seminar
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: 2.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 86	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚBEV/ SDPc/15	Course name: Diploma Thesis Seminar
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: 3.	
Course level: II.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Course assessment Total number of assessed students: 83	
abs	n
100.0	0.0
Provides:	
Date of last modification: 24.02.2017	
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ SDPd/15		Course name: Diploma Thesis Seminar			
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: 4.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 80					
A	B	C	D	E	FX
85.0	6.25	5.0	1.25	2.5	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ SFR/04		Course name: Seminar from Plant Physiology			
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:					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes: Literature search training, interpretation of actual news in plant physiology, ability to present scientific results. Increase of ability to constructively discuss scientific topics.					
Brief outline of the course: Metodology, ethics and legal aspects of scientific works. Databases of search in literature, databases for full access to scientific journals. Scientific importance of publications (CC articles, citations, impact factor). Presentation and discussion in actual topics in plant science.					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 22					
A	B	C	D	E	FX
90.91	9.09	0.0	0.0	0.0	0.0
Provides: Mgr. Silvia Gajdošová, Ph.D.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: KPPaPZ/SPVKE/07	Course name: Social-Psychological Training of Coping with Critical Life Situations	
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: 2.		
Course level: II.		
Prerequisites:		
Conditions for course completion:		
Learning outcomes:		
Brief outline of the course:		
Recommended literature:		
Course language:		
Course assessment Total number of assessed students: 126		
abs	n	z
97.62	2.38	0.0
Provides: Mgr. Ondrej Kalina, PhD.		
Date of last modification: 16.02.2017		
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.		

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/STFR/09		Course name: Plant stress physiology			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites: ÚBEV/VEK1/03 and ÚBEV/FRV1/03					
Conditions for course completion:					
Learning outcomes: Course shall introduce basic plant stress conditions to the students and elucidate phytohormonal regulation of specific plant defence mechanisms.					
Brief outline of the course: Causes, types and symptoms of stress. General mechanisms of stress reactions in living organisms. Plant stress reactions – synthesis of plant hormones (auxins, cytokinins, ethylene, jasmonic acid, salicylic acid, abscisic acid, NO and others), proteins, metabolites and other compounds related to stress response. Examples of known plant stress signalling cascades starting from signal perception, its processing and subsequent physiological changes leading to execution of growth and developmental reaction to the stress condition. Practicals (): cultivation of experimental plants under stress conditions, their analysis and evaluation of results.					
Recommended literature: Taiz L, Zeiger E, Plant physiology. 4th editon. Sinauer ass., Sunderland 2006. Hirt H.: Plant stress biology. Wiley-Blackwell, 2009.					
Course language:					
Course assessment Total number of assessed students: 10					
A	B	C	D	E	FX
60.0	20.0	10.0	0.0	0.0	10.0
Provides: Mgr. Silvia Gajdošová, Ph.D.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ SVK/01		Course name: Student Scientific Conference			
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: I., II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 230					
A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/TR1/99		Course name: Plant Taxonomy			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 5					
Recommended semester/trimester of the course: 1.					
Course level: II.					
Prerequisites:					
Conditions for course completion: Information on selected taxonomic work. Exam.					
Learning outcomes: To learn about basic methods and approaches in plant taxonomy.					
Brief outline of the course: Plant taxonomy. Approaches to biological classification. Source of informationa and taxonomic data. Variation in plants and their study. Numerical taxonomy (phenetics). Cladistics and their utilization in taxonomy. Molecular data as important data of recent systematics. Overview of phylogeny of tracheophytes according to the newest data. Evolution in populations, principles of plant evolutions, primary and secondary speciation. Basics of botanical nomenclature. International Code of botanical nomenclature.					
Recommended literature: Briggs D., Walters S. M.: Proměnlivost a evoluce rostlin. - Univerzita Palackého, Olomouc, 2001. Stuessy T. F.: Plant Taxonomy. - New York, Oxford 1990. 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. Greuter W. et al. (Eds.): Medzinárodný kód botanickej nomenklatury (Saint Louis Code). - Praha, Bratislava, 2000.					
Course language:					
Course assessment Total number of assessed students: 118					
A	B	C	D	E	FX
40.68	20.34	17.8	11.02	6.78	3.39
Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčík, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVa/11		Course name: Sports Activities I.					
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: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 10457							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.25	0.0	0.0	0.0	0.0	0.02	7.81	3.92
Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočnicková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., Mgr. Marcel Čurgali, doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVb/11		Course name: Sports Activities II.					
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: 2.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 9779							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.09	0.61	0.02	0.0	0.0	0.02	10.36	3.9
Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočnicková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., Mgr. Marcel Čurgali, doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVc/11		Course name: Sports Activities III.					
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: 3.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 6188							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
89.66	0.03	0.0	0.0	0.0	0.0	4.36	5.95
Provides: PaedDr. Jana Potočnicková, PhD., Mgr. Marcel Čurgali, Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ TVd/11		Course name: Sports Activities IV.					
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: 4.							
Course level: I., I.II., II.							
Prerequisites:							
Conditions for course completion:							
Learning outcomes:							
Brief outline of the course:							
Recommended literature:							
Course language:							
Course assessment Total number of assessed students: 4644							
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.66	0.32	0.04	0.0	0.0	0.0	6.61	7.36
Provides: Mgr. Marcel Čurgali, Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočnicková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., doc. PhDr. Ivan Šulc, CSc.							
Date of last modification: 23.02.2017							
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.							

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ UGM1/03		Course name: Introduction to Gene Manipulations			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course:					
Course level: II.					
Prerequisites:					
Conditions for course completion: Oral examination.					
Learning outcomes: To provide the students with the principles of preparation and application of techniques of recombinant DNA.					
Brief outline of the course: Isolation of nucleic acids. Restriction endonucleases. Digestion and ligation of DNA. Other enzymes used for DNA manipulation. Labeling of DNA. Nucleic acid hybridization. PCR. Preparation of recombinant DNA. Recombinant vectors. Selection markers. Transfer of recombinant DNA to the cells. Selection of recombinants. Expression of heterologous genes in E. coli. DNA sequencing.					
Recommended literature: Old, R.W., Primrose, S. B.: Principles of Genetic Manipulation. An Introduction to Genetic Engineering. Blackwell Scientific Publication, London, 1992 Fitzgerald-Hayes, M and Reichsman, F: DNA and Biotechnology. Academic Press, 2009. Third edition. ISBN 9780080916354					
Course language:					
Course assessment Total number of assessed students: 201					
A	B	C	D	E	FX
58.71	27.86	9.45	2.99	0.5	0.5
Provides: RNDr. Mariana Kolesárová, PhD.					
Date of last modification: 24.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/UPR/03		Course name: The Art of Aiding by Verbal Exchange			
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: 4.					
Course level: II.					
Prerequisites:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Course assessment Total number of assessed students: 49					
A	B	C	D	E	FX
85.71	4.08	2.04	2.04	2.04	4.08
Provides: Mgr. Ondrej Kalina, PhD.					
Date of last modification: 16.02.2017					
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.					

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ ZOG1/03		Course name: Zoogeography			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of credits: 6					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisites:					
Conditions for course completion: Active participation in seminars. 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:					
Course assessment Total number of assessed students: 845					
A	B	C	D	E	FX
23.2	23.55	24.85	18.22	8.17	2.01
Provides: doc. RNDr. Ľubomír Kováč, CSc.					

Date of last modification: 24.02.2017
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aerobic Exercise
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present	
Number of credits: 2	
Recommended semester/trimester of the course:	
Course level: I., II.	
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
26.67	73.33
Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.	
Date of last modification: 23.02.2017	
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	