CONTENT

| 1. Ancient Philosophy and Present Times | 3 |
|--|----|
| 2. Animal and human ecophysiology | 4 |
| 3. Aplikovaná mikrobiológia | |
| 4. Basic molecular methods in Zoology and Animal Physiology | |
| 5. Biology of Plant Symbioses | 8 |
| 6. Botany and Plant Physiology | |
| 7. Chapters from History of Philosophy of 19th and 20th Centuries (General Introduction) | 10 |
| 8. Chronophysiology | |
| 9. Communication and Cooperation | 12 |
| 10. Cytogenetics and Karyology | 13 |
| 11. Dendrology | 15 |
| 12. Diploma Thesis Seminar | 16 |
| 13. Diploma Thesis Seminar | 17 |
| 14. Diploma Thesis Seminar | |
| 15. Diploma Thesis Seminar | |
| 16. Diploma Thesis and its Defence | |
| 17. Ekológia populácií | |
| 18. Environmentálna mikrobiológia | |
| 19. Etology | |
| 20. Evolutionary Biology | |
| 21. Flora of Slovakia | |
| 22. Functional genomics. | |
| 23. Geobotany | |
| 24. Geographical Information Systems and Remote Sensing | |
| 25. Healing Plants | |
| 26. History of Philosophy 2 (General Introduction) | |
| 27. Idea Humanitas 2 (General Introduction) | |
| 28. Immunology | |
| 29. Introduction to Gene Manipulations | |
| 30. Lichen Biology | |
| 31. Mineral Nutrition | |
| 32. Physiology of Plant Growth and Development | |
| | |
| 33. Phytogeography | |
| 34. Plant Biotechnology | |
| 35. Plant Ecology36. Plant Embryology | |
| 37. Plant Metabolism | |
| | |
| 38. Plant Protection | |
| 39. Plant Taxonomy | |
| 40. Plant stress physiology | |
| 41. Psychology and Health Psychology (Master's Study) | |
| 42. Seaside Aerobic Exercise | |
| 43. Seminar from Plant Physiology | |
| 44. Social-Psychological Training of Coping with Critical Life Situations | |
| 45. Sports Activities I | |
| 46. Sports Activities II | |
| 47. Sports Activities III | |
| 48. Sports Activities IV | 62 |

| 49. | Student Scientific Conference | 64 |
|-----|-------------------------------------|-----|
| 50. | Summer Course-Rafting of TISA River | .65 |
| 51. | Survival Course | 67 |
| 52. | Zoogeography | 69 |

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

| COURSE | INFORM | IATION LET | ΓER | |
|--|---|---|--|---|
| University: P. J. Šafárik University in K | Lošice | | | |
| Faculty: Faculty of Science | | | | |
| Course ID: ÚBEV/ Course name: An EFZ1/03 | nimal and | human ecophy | siology | |
| Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / Course method: present | / 28 | | | |
| Number of ECTS credits: 6 | | | | |
| Recommended semester/trimester of t | the course | : | | |
| Course level: II. | | | | |
| Prerequisities: | | | | |
| Conditions for course completion: Seminar. Test. | | | | |
| Learning outcomes: The aim of lectures is to provide studen and extreme environments effects. | its with kn | owledge of ada | ptations to environ | nmental factors |
| Brief outline of the course: Environmental factors, reaction, adapt - general adaptation syndrom. Physio pain, inflammation, apoptosis, necross fasting, starvation, overfeeding. Thermo to hypobaria and hyperbaria. Adaptation Biotransformation. Xenobiotics in air, v tumor supressor genes. Cancer prevention Recommended literature: | ology and is. Aging. oregulation is to hypers water and s | pathology of Regulation or h. Hibernation, gravity and mic soil. Drugs of a | adaptation mecha f food intake. Fo estivation, diapaus crogravity. Electror | anisms - fever, ood adapations, se. Adaptations magnetic fields. |
| Wilmer P and co.: Environmental Phy Chown SL, Nicolson SW: Insect Phy | 5 05 | | U | · · · · · · · · · · · · · · · · · · · |
| Course language: | | | | |
| Notes: | | | | |
| Course assessment Total number of assessed students: 422 | | | | |
| A B | C | D | Е | FX |
| 13.51 22.75 23 | 3.22 | 22.99 | 16.35 | 1.18 |
| Provides: doc. RNDr. Bianka Bojková, | PhD. | | | |
| Date of last modification: 12.05.2021 | | | | |
| Approved: | | | | |

| Faculty: Fa | aculty of Sci | ence | | | | | |
|--|--|--|--|---|---|---|--|
| Course ID: ÚBEV/ Course name: Aplikovaná mikrobiológia AMK/15 | | | | | | | |
| Course ty Recomme Per week: | pe: Lecture ended cours | e-load (hours udy period: | s): | | | | |
| Number of | f ECTS cred | lits: 5 | | | | | |
| Recommen | nded semest | er/trimester | of the cours | e: | | | |
| Course lev | el: II., III. | | | | | | |
| Prerequisit | ties: | | | | | | |
| | | completion: s (at least 90 ^o | %), final exa | mination | | | |
| fields like findustry (p | food (produc roduction of | n-depth know tion of beer, v vitamins, hou | wine, milk pr rmones, amin | oducts, prob | piotics), chem ymes, comod | nical and pha lity chemica | armaceutica ls), vaccines |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo | nts acquire i food (production of production, ne of the cou n of bacted nt DNA tech ogy in food c | tion of beer, v vitamins, hor wastewater tr urse: ria in indus niques in ind juality contro | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor | viotics), chem ymes, comod crobial biored micals prod a and its appl ganisms in e | nical and pha lity chemica mediation, l uction. Application in for nvironment | armaceutica ls), vaccines piofuels and plication of pod industry |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater | nts acquire i food (production of production, ne of the cou n of bacted nt DNA tech ogy in food c | tion of beer, v vitamins, hor wastewater tr irse: ria in indus iniques in ind juality contro pioremediatio | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor | viotics), chem ymes, comod crobial biored micals prod a and its appl ganisms in e | nical and pha lity chemica mediation, l uction. Application in for nvironment | armaceutica ls), vaccines piofuels and plication of pod industry |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater Recommen | nts acquire i food (production of production, f ne of the count n of bacter nt DNA tech ogy in food count r treatment, l nded literate | tion of beer, v vitamins, hor wastewater tr irse: ria in indus iniques in ind juality contro pioremediatio | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor | viotics), chem ymes, comod crobial biored micals prod a and its appl ganisms in e | nical and pha lity chemica mediation, l uction. Application in for nvironment | armaceutica ls), vaccines piofuels and plication of pod industry |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater | nts acquire i food (production of production, f ne of the count n of bacter nt DNA tech ogy in food count r treatment, l nded literate | tion of beer, v vitamins, hor wastewater tr irse: ria in indus iniques in ind juality contro pioremediatio | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor | biotics), chem ymes, comod crobial biored micals produ a and its appl ganisms in e | nical and pha lity chemica mediation, l uction. Application in for nvironment | armaceutica ls), vaccines piofuels and plication of pod industry |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater Recommen Course lan Notes: Course ass | nts acquire i food (production of production of production, ne of the cou n of bacter nt DNA tech ogy in food c r treatment, l nded literatu iguage: | tion of beer, v vitamins, hor wastewater tr irse: ria in indus iniques in ind juality contro pioremediatio | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application n, biofuels, n | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor | biotics), chem ymes, comod crobial biored micals produ a and its appl ganisms in e | nical and pha lity chemica mediation, l uction. Application in for nvironment | armaceutica ls), vaccines piofuels and plication of pod industry |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater Recommen Course lan Notes: Course ass | nts acquire i food (production of production of production, ne of the cou n of bacter nt DNA tech ogy in food c r treatment, l nded literatu iguage: | etion of beer, v vitamins, hor wastewater tr irse: ria in indus iniques in ind juality contro pioremediatio ire: | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application n, biofuels, n | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor | biotics), chem ymes, comod crobial biored micals produ a and its appl ganisms in e | nical and pha lity chemica mediation, l uction. Application in for nvironment | armaceutica ls), vaccines piofuels and plication of pod industry |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater Recommen Course lan Notes: Course ass Total numb | nts acquire i food (production of production of production, ne of the cou n of bacter nt DNA tech ogy in food c r treatment, l nded literatu nded literatu nded literatu nded literatu | etion of beer, v vitamins, hor wastewater tr ria in indus niques in ind juality contro pioremediatio rre: | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application n, biofuels, n | oducts, prob to acids, enzy well as mic ses, biocher acid bacteria n of microor nicrobiology | biotics), chem ymes, comod crobial biorer micals produ a and its appl ganisms in e y of biogas pl | nical and pha lity chemica mediation, l uction. Application in fo nvironment lants. | armaceutica ls), vaccines piofuels and plication of pod industry protection - |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater Recommen Course lan Notes: Course ass Total numb A 35.71 Provides: c | nts acquire i food (production of production of production, ne of the cou n of bacter nt DNA tech ogy in food c r treatment, l nded literatu essment per of assess B 28.57 | ed students: 2 C 17.86 Peter Pristaš, 0 | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application n, biofuels, n | educts, prob to acids, enzy well as mice ses, biocher acid bacteria n of microor nicrobiology E 0.0 | FX 0.0 | nical and pha lity chemica mediation, 1 uction. Application in for nvironment lants. | P 10.71 |
| fields like f industry (p and their p biomining. Brief outlin Application recombinan Microbiolo wastewater Recommen Course lan Notes: Course ass Total numb A 35.71 Provides: c PhD., RND | nts acquire i food (production of production, of production, of production, of the count of bacter of bacter of assessed by in food of the count of | ed students: 2 C 17.86 Peter Pristaš, 0 | wine, milk pr rmones, amin reatment, as trial process ustry. Lactic l. Application n, biofuels, n 28 28 28 7.14 CSc., RNDr. | educts, prob to acids, enzy well as mice ses, biocher acid bacteria n of microor nicrobiology E 0.0 | FX 0.0 | nical and pha lity chemica mediation, 1 uction. Application in for nvironment lants. | P 10.71 |

| University: P. J. Šafán | rik University in Košice |
|---|---|
| Faculty: Faculty of Se | cience |
| Course ID: ÚBEV/ MMZ/20 | Course name: Basic molecular methods in Zoology and Animal Physiology |
| Course type, scope as Course type: Lectur Recommended cour Per week: 1 / 2 Per s Course method: pre | e / Practice rse-load (hours): study period: 14 / 28 |
| Number of ECTS cro | edits: 3 |
| Recommended seme | ster/trimester of the course: |
| Course level: II. | |
| Prerequisities: | |
| | e completion: active participation on practical exercises Illing the practical task |
| - database NCBI (Gen | on, , RT-PCR, qRT-PCR) + electrophoretic visualization |
| problems of zoologic practical form. The course focuses physiology of anima theoretical knowledg | ourse: et is to introduce the methods of molecular biology as the tools used to solve al, ecological and physiological studies, in both theoretical but first of all in on basic molecular methods used in studies of taxonomy, ecology and ls (invertebrates and vertebrates). The main task is to provide not only e, but in the form of practical exercises, mainly skills usable in practice ttion of future bachelor and master theses). |
| Weaver, R.F. 2002. M Pastoráková A. & Pet | ture: Metody molekulární biologie. Masarykova univerzita, Brno. Iolecular biology. University of Kansas rovič, R. 2016. Molekulárne metódy aktuálne používané v klinickej Komenského v Bratislave, Lekárska fakulta |
| Course language: Slovak or English lan | guage |
| Notes: | |

| Course assessment Total number of assessed students: 2 | | | | | | | |
|---|-------------------|-----------------|-------------------|-----------|-----|--|--|
| А | В | С | D | Е | FX | | |
| 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Provides: RND | r. Andrea Parimu | chová, PhD., RN | IDr. Terézia Kisk | ová, PhD. | | | |
| Date of last mo | dification: 14.05 | 5.2021 | | | | | |
| Approved: | | | | | | | |

| | : P. J. Šafáril | k University i | n Košice | | | | | |
|---|----------------------------|---|--------------|---------------|--------|-----|------|--|
| Faculty: Faculty: | aculty of Sci | ence | | | | | | |
| Course ID: ÚBEV/ Course name: Biology of Plant Symbioses BRS1/03 | | | | | | | | |
| Course ty Recomme Per week | pe: Lecture ended cours | d the method e-load (hours y period: 28 ent | | | | | | |
| Number of | f ECTS cred | lits: 3 | | | | | | |
| Recommen | nded semest | er/trimester | of the cours | e: | | | | |
| Course lev | el: II., III. | | | | | | | |
| Prerequisi | ties: | | | | | | | |
| Condition | s for course | completion: | | | | | | |
| Learning of Introduction | | and ecology | of plant sym | bioses. | | | | |
| Morpholog plant symb | oioses. Liche | urse: gical, physiolo ns, mycorrhiz and endosymb | a, symbiosis | | | | | |
| Van den H | | ure: l. 1995: Algae odern Mycolo | | ction to phyc | ology, | | | |
| Course lan | iguage: | | | | | | | |
| Notes: | | | | | | | | |
| Course ass | sessment ber of assess | ed students: 4 | 01 | | | | | |
| | | 0 | D | Е | FX | Ν | Р | |
| | В | | | | | | | |
| Total num | B 0.0 | C 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.99 | |
| Total numl A 96.01 | 0.0 | | | 0.0 | | | 3.99 | |
| Total numl A 96.01 Provides: p | 0.0 prof. RNDr. | 0.0 | or, DrSc. | 0.0 | | | 3.99 | |

| University: P. J. Š | afárik Univers | ity in Košice | | | |
|---|--------------------------------|-------------------|-----------------|--------|-----|
| Faculty: Faculty of | of Science | | | | |
| Course ID: ÚBEV BFR/14 | V/ Course na | me: Botany and | Plant Physiolog | у У | |
| Course type, scop Course type: Recommended c Per week: Per s Course method: | course-load (h tudy period: | | | | |
| Number of ECTS | credits: 4 | | | | |
| Recommended se | mester/trimes | ter of the course | 2: | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for co | urse completi | on: | | | |
| Learning outcom | es: | | | | |
| Brief outline of th | ne course: | | | | |
| Recommended lit | terature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessmen Total number of a | - | ts: 23 | | | |
| A | В | С | D | E | FX |
| 39.13 | 17.39 | 30.43 | 8.7 | 4.35 | 0.0 |
| Provides: | | | | | |
| Date of last modi | fication: 03.05 | .2015 | | | |
| Approved: | | | | | |

| University: P. J. Ša | afárik Universi | ty in Košice | | | |
|--|--|--|-------|-------------------|----------|
| Faculty: Faculty o | f Science | | | | |
| Course ID: KF/ KDF/05 | | me: Chapters fro General Introdu | • | nilosophy of 19th | and 20th |
| Course type, scop Course type: Pra Recommended co Per week: 2 Per s Course method: | ctice ourse-load (ho study period: 1 | ours): | | | |
| Number of ECTS | credits: 2 | | | | |
| Recommended ser | mester/trimest | ter of the cours | e: 2. | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for co | urse completio | on: | | | |
| Learning outcome | es: | | | | |
| Brief outline of th | e course: | | | | |
| Recommended lite | erature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessmen Total number of as | | s: 10 | | | |
| А | В | С | D | Е | FX |
| 50.0 | 20.0 | 10.0 | 0.0 | 10.0 | 10.0 |
| Provides: PhDr. D | ušan Hruška, P | hD. | | | |
| Date of last modif | ication: 03.05. | .2015 | | | |
| Approved: | | | | | |

| Faculty: Fa | culty of Sc | eience | | | | | |
|---|---|---|--|--|---|---|---|
| Course ID: CRO1/03 | | | | | | | |
| Course typ Recomme | pe: Lecture nded cour 2 / 1 Per s | se-load (hour study period: | s): | | | | |
| Number of | ECTS cre | dits: 5 | | | | | |
| Recommen | ded semes | ter/trimester | of the cours | e: | | | |
| Course leve | el: II., III. | | | | | | |
| Prerequisit | ies: | | | | | | |
| Conditions Oral examin | | e completion: | | | | | |
| Learning o | uttoilles. | | | | | | |
| in evolution Brief outlin Time struct biological r genetic basi | n of living the of the co ture of phy hythms. T is and mole | vsiological van he significanc cular mechani | l for the adap riables in ani e of biologic isms of biolog | tation to regu imals and m al rhythms in gical clocks in | an. Basic non the evolution of the evolu | in their envi otions and ca on of living he endogeno | ategories of things. The us character |
| in evolution Brief outlin Time struct biological r genetic basi of biologica | n of living ne of the co ture of phy hythms. T is and mole al rhythms. | organisms and ourse: vsiological van he significanc | l for the adap riables in an e of biologic isms of biolog illatory syste | tation to regu- imals and m al rhythms in gical clocks in m of the org | an. Basic non the evolution animals. The anism. The s | in their envi otions and ca on of living he endogeno significance | ategories of things. The us character of circadian |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season | n of living the of the co ture of phy hythms. T is and mole al rhythms al rhthms | organisms and ourse: ysiological van he significanc ccular mechani . The multiosc for the anima | l for the adap riables in an e of biologic isms of biolog illatory syste | tation to regu- imals and m al rhythms in gical clocks in m of the org | an. Basic non the evolution animals. The anism. The s | in their envi otions and ca on of living he endogeno significance | ategories of things. The us character of circadian |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season principles. | n of living the of the co ture of phy hythms. T is and mole al rhythms al rhythms ded litera | organisms and ourse: ysiological van he significanc ccular mechani . The multiosc for the anima | l for the adap riables in an e of biologic isms of biolog illatory syste | tation to regu- imals and m al rhythms in gical clocks in m of the org | an. Basic non the evolution animals. The anism. The s | in their envi otions and ca on of living he endogeno significance | ategories of things. The us character of circadian |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season principles. Recommen | n of living the of the co ture of phy hythms. T is and mole al rhythms al rhythms ded litera | organisms and ourse: ysiological van he significanc ccular mechani . The multiosc for the anima | l for the adap riables in an e of biologic isms of biolog illatory syste | tation to regu- imals and m al rhythms in gical clocks in m of the org | an. Basic non the evolution animals. The anism. The s | in their envi otions and ca on of living he endogeno significance | ategories of things. The us character of circadian |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season principles. Recommen Course lang Notes: Course asso | n of living the of the co ture of phy hythms. T is and mole al rhythms. al rhthms ded literat guage: | organisms and ourse: ysiological van he significanc ccular mechani . The multiosc for the anima | I for the adap riables in an e of biologic isms of biolog illatory syste al and huma | tation to regu- imals and m al rhythms in gical clocks in m of the org | an. Basic non the evolution animals. The anism. The s | in their envi otions and ca on of living he endogeno significance | ategories of things. The us character of circadian |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season principles. Recommen Course lang Notes: Course asso | n of living the of the co ture of phy hythms. T is and mole al rhythms. al rhthms ded literat guage: | organisms and ourse: /siological van he significanc ecular mechani . The multiosc for the anima ture: | I for the adap riables in an e of biologic isms of biolog illatory syste al and huma | tation to regu- imals and m al rhythms in gical clocks in m of the org | an. Basic non the evolution animals. The anism. The s | in their envi otions and ca on of living he endogeno significance | ategories of things. The us character of circadian |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season principles. Recommen Course lang Notes: Course asso Total numb | n of living the of the co ture of phy hythms. T is and mole al rhythms. al rhythms ded literat guage: essment er of asses | organisms and ourse: /siological van he significanc cular mechani . The multiosc for the anima ture: | l for the adap riables in ani e of biologic isms of biolog illatory syste al and huma | tation to regu imals and m al rhythms in gical clocks in m of the org n life. The | an. Basic non n the evoluti n animals. The anism. The state of the sta | in their envi | ronment. ategories of things. The us character of circadian hysiological |
| in evolution Brief outlin Time struct biological r genetic basis of biologica and season principles. Recommen Course lang Notes: Course asso Total numb A 21.35 | n of living ne of the co ture of phy hythms. T is and mole al rhythms. al rhthms ded literat guage: essment er of asses B 21.35 | organisms and purse: /siological van he significanc ccular mechani . The multiosc for the anima ture: sed students: 8 | I for the adap riables in ani e of biologic isms of biolog illatory syste al and huma 39 D 12.36 | tation to regulation to regulation to regulation to regulation and main all rhythms in gical clocks in mof the orgonalife. The second s | an. Basic non n the evoluti n animals. The anism. The s application of FX 0.0 | in their envi otions and ca on of living he endogeno significance of chrono-pl | ronment. ategories of things. The us character of circadian hysiological |
| in evolution Brief outlin Time struct biological r genetic basi of biologica and season principles. Recommen Course lang Notes: Course asso Total numb A 21.35 Provides: p | n of living ne of the co ture of phy hythms. T is and mole al rhythms. al rhthms ded literat guage: essment er of asses B 21.35 rof. RNDr. | organisms and purse: /siological van he significanc ccular mechani . The multiosc for the anima ture: sed students: 8 C 29.21 | I for the adap riables in ani e of biologic isms of biolog illatory syste al and huma 39 D 12.36 ijda, CSc., RI | tation to regulation to regulation to regulation to regulation and main all rhythms in gical clocks in mof the orgonalife. The second s | an. Basic non n the evoluti n animals. The anism. The s application of FX 0.0 | in their envi otions and ca on of living he endogeno significance of chrono-pl | ronment. ategories of things. The us character of circadian hysiological |

| University: P. J. Ša | fárik Univers | ity in Košice | |
|--|--|---------------------------------|--------|
| Faculty: Faculty of | Science | | |
| Course ID: KPPaPZ/KK/07 | Course na | me: Communication and Coope | ration |
| Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p | tice ourse-load (he tudy period: | ours): | |
| Number of ECTS | credits: 2 | | |
| Recommended sen | nester/trimes | ter of the course: 3. | |
| Course level: II. | | | |
| Prerequisities: | | | |
| Conditions for cou | rse completi | on: | |
| Learning outcome | s: | | |
| Brief outline of the | e course: | | |
| Recommended lite | rature: | | |
| Course language: | | | |
| Notes: | | | |
| Course assessment Total number of ass | | ts: 281 | |
| abs | | n | Z |
| 98.22 | | 1.78 | 0.0 |
| Provides: Mgr. Onc | drej Kalina, P | hD., Mgr. Lucia Barbierik, PhD. | · |
| Date of last modifi | cation: 24.06 | .2021 | |
| Approved: | | | |

| | | | | MATION LE | | | |
|---|---|---|--|---|--|---------------------------|---------------------------|
| | | University i | n Košice | | | | |
| Faculty: Fac | , | | | | | | |
| Course ID: CK1/03 | ÚBEV/ C | ourse name: | Cytogenetic | cs and Karyo | logy | | |
| Course typ Recommen | e: Lecture / ided course 1 / 2 Per st | e-load (hours udy period: | s): | | | | |
| Number of] | ECTS cred | its: 4 | | | | | |
| Recommen | led semeste | er/trimester | of the cours | e: | | | |
| Course leve | l: II., III. | | | | | | |
| Prerequisiti | es: | | | | | | |
| | , oral exami The protoco | ination; ols and work | | the practical tika a karylóg | | | |
| - | wledge and cytogenetic | s. To get acq | | becesses at the letail with the | | - | |
| structure an Polythene c cell differen | n of eukary d changes o hromosome tiation. Apo | otic genome. of chromatin. es. Cell cycle optosis. Telor | Levels of D e. Genetic re meres and fu | eleton. Nucle DNA organisa egulation of unction of tele at we can lea | tion in cell r a cell cycle. omerase. Mo | ucleus. Chr Genetic re | comosomes egulation of |
| Recommend Snustad, P.I 871 pp. Periodicals Internet sou | D., Simmons | | iples of Gen | etics. John W | iley and Son | s, 5th edition | n 2009, |
| Course lang | juage: | | | | | | |
| Notes: | | | | | | | |
| Course asse Total numbe | | ed students: 1 | 404 | | | | |
| A | В | C | D | Е | FX | Ν | Р |
| 24.79 | 15.17 | 15.81 | 14.1 | 18.02 | 11.18 | 0.0 | 0.93 |
| Provides: pr | of RNDr I | - Eva Čellárová | DrSo DN | | | | |
| | \mathbf{U} . KNDI. I | | i, DISC., NN | Dr. Katarina | Bruňáková. I | PhD. | |

Approved:

| University: P. J. | Šafárik Univer | sity in Košice | | | |
|--|---|--|--|--------------------------------|-----|
| Faculty: Faculty | of Science | | | | |
| Course ID: ÚBE DNR/06 | Course n | ame: Dendrology | 7 | | |
| Course type, sco Course type: La Recommended Per week: 2 / 2 Course method | ecture / Practic course-load (l Per study per | e hours): | | | |
| Number of ECT | S credits: 5 | | | | |
| Recommended s | emester/trime | ester of the cours | e: | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for c | ourse complet | ion: | | | |
| Learning outcom | nes: | | | | |
| Morphological s distribution. Intra Selected chapters Application of w urban environme occurrence, meas expansion and in | igns of woody aspecific varial s from seed pro yoody plants in ent. Protected a sures of protect wasion of wood | nous and allochtho plants, ecological pility, growth form oduction and tree r garden and landso nd memorial trees tion and treating. I dy plants. | requirements, go ns and their use. nursery of wood cape architecture s, databasis of | eographic y plants. e in | |
| Recommended l | | | | | |
| Course language | 2: | | | | |
| Notes: | | | | | |
| Course assessme Total number of | | nts: 68 | | | |
| Α | В | C | D | E | FX |
| 69.12 | 14.71 | 7.35 | 8.82 | 0.0 | 0.0 |
| Provides: Ing. Pe | eter Kelbel, Dr. | | | | |
| Date of last mod | ification: 03.0 | 5.2015 | | | |
| | | | | | |

| University: P. J. Šafá | rik University in Košice | | |
|---|--|---------------|--|
| Faculty: Faculty of S | cience | | |
| Course ID: ÚBEV/ SDPa/15 | Course name: Diploma Th | nesis Seminar | |
| Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre | rse-load (hours): ly period: esent | | |
| Number of ECTS cr | | | |
| | ster/trimester of the cours | e: 1. | |
| Course level: II. | | | |
| Prerequisities: | | | |
| Conditions for cours | e completion: | | |
| Learning outcomes: | | | |
| Brief outline of the c | ourse: | | |
| Recommended litera | iture: | | |
| Course language: | | | |
| Notes: | | | |
| Course assessment Total number of asse | ssed students: 206 | | |
| | abs | n | |
| | 100.0 | 0.0 | |
| Provides: | | | |
| Date of last modifica | tion: 03.05.2015 | | |
| Approved: | | | |

| University: P. J. Šafá | rik University in Košice | | |
|---|---------------------------------|---------------------------------------|--|
| Faculty: Faculty of S | cience | | |
| Course ID: ÚBEV/ SDPb/15 | Course name: Diploma | Thesis Seminar | |
| Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro | rse-load (hours): ly period: | | |
| Number of ECTS cr | edits: 4 | | |
| Recommended seme | ster/trimester of the cou | rse: 2. | |
| Course level: II. | | | |
| Prerequisities: | | | |
| Conditions for cours | se completion: | | |
| Learning outcomes: | | | |
| Brief outline of the o | course: | | |
| Recommended litera | ature: | | |
| Course language: | | | |
| Notes: | | | |
| Course assessment Total number of asse | ssed students: 168 | | |
| | abs | n | |
| | 100.0 | 0.0 | |
| Provides: | | · · · · · · · · · · · · · · · · · · · | |
| Date of last modifica | ntion: 03.05.2015 | | |
| Approved: | | | |

| University: P. J. Šafá | rik University in Košice | | |
|---|---------------------------------|----------------|--|
| Faculty: Faculty of S | cience | | |
| Course ID: ÚBEV/ SDPc/15 | Course name: Diploma | Thesis Seminar | |
| Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro | rse-load (hours): ly period: | | |
| Number of ECTS cr | edits: 4 | | |
| Recommended seme | ster/trimester of the cou | rse: 3. | |
| Course level: II. | | | |
| Prerequisities: | | | |
| Conditions for cours | se completion: | | |
| Learning outcomes: | | | |
| Brief outline of the o | course: | | |
| Recommended litera | ature: | | |
| Course language: | | | |
| Notes: | | | |
| Course assessment Total number of asse | ssed students: 169 | | |
| | abs | n | |
| | 100.0 | 0.0 | |
| Provides: | | • | |
| Date of last modifica | ntion: 03.05.2015 | | |
| Approved: | | | |

| University: P. J. Š | afárik Universi | ty in Košice | | | |
|---|--------------------------------|-----------------------|---------------|-----|-----|
| Faculty: Faculty o | of Science | | | | |
| Course ID: ÚBEV SDPd/15 | // Course na | me: Diploma Tl | nesis Seminar | | |
| Course type, scop Course type: Recommended c Per week: Per s Course method: | ourse-load (ho tudy period: | | | | |
| Number of ECTS | | | | | |
| Recommended se | mester/trimes | ter of the cours | e: 4. | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for co | urse completio | on: | | | |
| Learning outcom | es: | | | | |
| Brief outline of th | e course: | | | | |
| Recommended lit | erature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessmen Total number of as | - | s: 166 | | | |
| A | В | С | D | Е | FX |
| 86.75 | 9.04 | 2.41 | 0.6 | 1.2 | 0.0 |
| Provides: | l | | 1 | | 1 |
| Date of last modif | fication: 03.05 | .2015 | | | |
| Approved: | | | | | |

| University: P. J. | Šafárik Univers | ity in Košice | | | |
|---|---|-----------------------|--------------------|------|-----|
| Faculty: Faculty | of Science | | | | |
| Course ID: ÚBE DPO/14 | EV/ Course na | me: Diploma Th | nesis and its Defe | ence | |
| Course type, sco Course type: Recommended Per week: Per Course method | course-load (h study period: l: present | | | | |
| Number of ECT | | | | | |
| Recommended s | semester/trimes | ster of the cours | e: | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for c | ourse completi | on: | | | |
| Learning outcom | nes: | | | | |
| Brief outline of | the course: | | | | |
| Recommended I | iterature: | | | | |
| Course language | e: | | | | |
| Notes: | | | | | |
| Course assessme Total number of | | ts: 205 | | | |
| А | В | С | D | Е | FX |
| 57.56 | 24.88 | 10.24 | 5.37 | 1.95 | 0.0 |
| Provides: | | | | | |
| Date of last mod | lification: 03.05 | 5.2015 | | | |
| Approved: | | | | | |

| Faculty: Faculty of | of Science | | | | |
|---|--|--|--|---|---|
| Course ID: ÚBEV EP/14 | V/ Course n | ame: Ekológia p | opulácií | | |
| Course type, scop Course type: Lee Recommended of Per week: 1 / 1 F Course method: | cture / Practic course-load (Per study per | e hours): | | | |
| Number of ECTS | credits: 3 | | | | |
| Recommended se | emester/trim | ester of the cours | e: | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for co | urse comple | tion: | | | |
| | | | | | |
| Learning outcom Brief outline of th | ne course: | | | | 1 1.4 |
| | terature: | //abundance, dist n populations of and population m lels and changes in | ribution/populati organisms and ethods applied in populations. | on dispersion pa environmental fa n various ecosyst | atterns, natality actors based or ems. Populatior |
| Brief outline of th Population ecolog characteristics su mortality) interac mathematical mod ecology elucidates Recommended lift Rockwood Larry | te course: by includes stucch as density stions betwee dels, theories, s growth mod terature: L., 2006: Intr | //abundance, dist n populations of and population m lels and changes in | ribution/populati organisms and ethods applied in populations. | on dispersion pa environmental fa n various ecosyst | atterns, natality actors based or ems. Populatior |
| Brief outline of th Population ecolog characteristics su mortality) interac mathematical mod ecology elucidates Recommended lift Rockwood Larry Blackwell | te course: by includes stucch as density stions betwee dels, theories, s growth mod terature: L., 2006: Intr | //abundance, dist n populations of and population m lels and changes in | ribution/populati organisms and ethods applied in populations. | on dispersion pa environmental fa n various ecosyst | atterns, natality actors based or ems. Populatior |
| Brief outline of the Population ecology characteristics sur- mortality) interact mathematical mode ecology elucidates Recommended life Rockwood Larry Blackwell Course languages | te course: ay includes stuch as density tions betwee dels, theories, s growth mod terature: L., 2006: Intr | y/abundance, dist n populations of and population m lels and changes in oduction to popul | ribution/populati organisms and ethods applied in populations. | on dispersion pa environmental fa n various ecosyst | atterns, natality actors based or ems. Populatior |
| Brief outline of th Population ecolog characteristics su- mortality) interac mathematical mod ecology elucidates Recommended lift Rockwood Larry Blackwell Course languages Notes: Course assessmen | te course: ay includes stuch as density tions betwee dels, theories, s growth mod terature: L., 2006: Intr | y/abundance, dist n populations of and population m lels and changes in oduction to popul | ribution/populati organisms and ethods applied in populations. | on dispersion pa environmental fa n various ecosyst | atterns, natality actors based or ems. Populatior |
| Brief outline of th Population ecolog characteristics su- mortality) interac mathematical mod ecology elucidates Recommended lift Rockwood Larry Blackwell Course languages Notes: Course assessmen Total number of a | ne course: gy includes stu- ch as density tions betwee dels, theories, s growth mod terature: L., 2006: Intr nt ssessed stude | v/abundance, dist n populations of and population m lels and changes in oduction to popul | ribution/populati organisms and ethods applied in populations. ation ecology, 33 | on dispersion pa environmental fa n various ecosyst | atterns, natality actors based or ems. Populatior Mass.: |
| Brief outline of the Population ecology characteristics sur- mortality) interact mathematical mode ecology elucidates Recommended life Rockwood Larry 1 Blackwell Course languages Notes: Course assessment Total number of a A | te course: and course: by includes stu- ch as density tions between dels, theories, s growth mode terature: L., 2006: Intressed terature: L., 2006: Supervised terature: L., 2006: Supervised Supervised Stude B 7.41 | Abundance, dist n populations of and population m lels and changes in oduction to popul mts: 27 C 37.04 | ribution/populati organisms and ethods applied in populations. ation ecology, 33 | on dispersion pa environmental fa n various ecosyst 9 pp., Malden, N | Atterns, natality actors based or ems. Population Mass.: FX |
| Brief outline of th Population ecolog characteristics surmortality) interaction mortality) interaction mathematical mode ecology elucidates Recommended lift Rockwood Larry Blackwell Course languages Notes: Course assessment Total number of a A 48.15 | te course: y includes stuch ch as density tions betwee dels, theories, s growth mod terature: L., 2006: Intr ssessed stude B 7.41 Natália Rasch | Abundance, dist n populations of and population m lels and changes in oduction to popul nts: 27 C 37.04 manová, PhD. | ribution/populati organisms and ethods applied in populations. ation ecology, 33 | on dispersion pa environmental fa n various ecosyst 9 pp., Malden, N | Atterns, natality actors based or ems. Population Mass.: FX |

| Facult- F | • 1. J. Sala | rik University i | in Košice | | | | |
|---|---|--|--|---|---------------|---------------|---|
| raculty: Fa | aculty of S | cience | | | | | |
| Course ID EMK/15 | : ÚBEV/ | Course name | : Environme | entálna mikro | biológia | | |
| Course ty Recomme Per week | pe: Lectur ended cour | nd the method re / Practice rse-load (hour study period: rsent | s): | | | | |
| Number of | f ECTS cr | edits: 5 | | | | | |
| Recommer | nded seme | ster/trimester | of the cour | se: | | | |
| Course lev | el: II., III. | | | | | | |
| Prerequisi | ties: | | | | | | |
| | | e completion: als (at least 90 | %), final ora | l examination | n | | |
| To provide | students d | ata on participa | ation of micr | oorganisms i | n biosphere r | processes, ch | aracteristics |
| of most fre organisms. Brief outlin Evolution | ne of the c and biodiv tors on mi | ourse: ourse: ersity of micro croorganisms, | ial communi | ties and inter | actions ofmi | croorganism | s with other |
| of most fre organisms. Brief outlin Evolution abiotic fac | ne of the c and biodiv tors on mi organisms | ourse: ersity of micro croorganisms, | ial communi | ties and inter | actions ofmi | croorganism | s with other |
| of most free organisms. Brief outlin Evolution abiotic fac and other o | ne of the c and biodiv tors on mi organisms nded litera | ourse: ersity of micro croorganisms, | ial communi | ties and inter | actions ofmi | croorganism | s with other |
| of most fre organisms. Brief outlin Evolution abiotic fac and other of Recommen | ne of the c and biodiv tors on mi organisms nded litera | ourse: ersity of micro croorganisms, | ial communi | ties and inter | actions ofmi | croorganism | s with other |
| of most fre organisms. Brief outlin Evolution abiotic fac and other of Recommen Course lan Notes: Course ass | ne of the c and biodiv tors on mi organisms nded litera nguage: sessment | ourse: ersity of micro croorganisms, | ial communi | ties and inter | actions ofmi | croorganism | s with other |
| of most fre organisms. Brief outlin Evolution abiotic fac and other of Recommen Course lan Notes: Course ass | ne of the c and biodiv tors on mi organisms nded litera nguage: sessment | ourse: ersity of micro croorganisms, nture: | ial communi | ties and inter | actions ofmi | croorganism | s with other |
| of most fre organisms. Brief outlin Evolution abiotic fac and other of Recommen Course lan Notes: Course ass Total numb | ne of the c and biodiv tors on mi organisms nded litera iguage: sessment ber of asses | ourse: ersity of micro croorganisms, ture: | ial communi | ties and inter microorganis ical cycles, i | actions ofmi | croorganism | s with other |
| of most fre organisms. Brief outlin Evolution abiotic fac and other of Recommen Course lan Notes: Course ass Total numb A 51.61 Provides: of | ne of the c and biodiv tors on mi organisms nded litera nguage: eessment ber of asses B 24.19 doc. RNDr | ourse: ersity of micro croorganisms, ture: ssed students: 6 | 52 D D D D 0.0 | ties and inter microorganis ical cycles, i E 3.23 | FX 0.0 | N 0.0 | s with other influence of roorganisms P 19.35 |
| of most fre organisms. Brief outlin Evolution abiotic fac and other of Recommen Course lan Notes: Course ass Total numb A 51.61 Provides: of Maliničová | ne of the c and biodiv tors on mi organisms nded litera nguage: sessment ber of asses B 24.19 doc. RNDr , PhD. | ourse: ersity of micro croorganisms, ture: ssed students: 6 C 1.61 | 52 52 52 0.0 CSc., prof. I | ties and inter microorganis ical cycles, i E 3.23 | FX 0.0 | N 0.0 | s with other |

| University: P. J. Ša | fárik Univers | sity in Košice | | | |
|---|---|---|---------------------------------------|--|------------------------------------|
| Faculty: Faculty of | Science | | | | |
| Course ID: ÚBEV/ ETOP/08 | Course na | ame: Etology | | | |
| Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p | ure / Practice urse-load (h r study peri | e ours): | | | |
| Number of ECTS of | credits: 6 | | | | |
| Recommended sem | nester/trimes | ster of the cours | e: | | |
| Course level: I., II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for cou Thematical presenta Oral examination | - | ion: | | | |
| Learning outcomes To teach the studer biological sciences | | and to be aware | of the importa | nce of the behavi | ioural aspect in |
| Brief outline of the History and develo simplest forms of Social behaviour. S animal migrations. O behaviour. Abnorm | pment of eth learning – co exual behavi Communicat | onditioning and our. Play behavio ion systems of an | instrumental lea our. Biological r | arning. Higher fo hythms. Orientati | rm of learning. on in space and |
| Recommended lite 1.J.B.Balcome: Sec 2. T.J.Carew: Behav | ond nature. | | • | - | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessment Total number of ass | | nts: 577 | | | |
| A | В | С | D | Е | FX |
| 31.72 | 29.29 | 26.69 | 9.36 | 2.95 | 0.0 |
| | - New York Control of | | | | |
| Provides: RNDr. Ig | or Majláth, F | hD., RNDr. Nata | ilia Pipová, PhD | ., RNDr. Terézia | Kisková, PhD. |
| Provides: RNDr. Ig | _ | | ilia Pipová, PhD |)., RNDr. Terézia | Kisková, PhD. |

| 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 ECTS credits: 3 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: 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 assessment Total number of assessed students: 589 | University: P. J. | Šafárik Univers | ity in Košice | | | |
|--|---|---|--|--|--|--|
| EB1/99 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 ECTS credits: 3 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: 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? Primary and secondary speciation of plants. Reproduction-isolation mechanisms. Hybridisation and introgression of plants. Polyploidy. Reproductive systems in plants. Recommended literature: Futuyama, D.J.: Evolution. San Francisco 1977. Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Ev | Faculty: Faculty | of Science | | | | |
| Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of ECTS credits: 3 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: 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: Notes: Caurse assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čelárová, DrSc. Course and X | Course ID: ÚBI EB1/99 | EV/ Course na | me: Evolutional | y Biology | | |
| Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: 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 assessment Total number of assessed students: 589 A B C D E FX A B C D E FX 12.56 <td>Course type: L Recommended Per week: 2 Pe</td> <td>Lecture l course-load (h er study period:</td> <td>ours):</td> <td></td> <td></td> <td></td> | Course type: L Recommended Per week: 2 Pe | Lecture l course-load (h er study period: | ours): | | | |
| Course level: II. Prerequisities: 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: Notes: A B C D E FX A B C D E FX 12.56 23.6 | Number of ECT | FS credits: 3 | | | | |
| Prerequisities: 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: Notes: Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čelárová, DrSc. | Recommended | semester/trimes | ster of the cours | e: 3. | | |
| 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: Notes: Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. Columbra function function function function function functin function function functin function funct | Course level: II. | | | | | |
| 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: Notes: Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | Prerequisities: | | | | | |
| 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. Macroevolutionary 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.: Evolution. San Francisco 1977. Course language: Notes: Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Cellárová, DrSc. | Conditions for of written test | course completi | on: | | | |
| 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: Notes: Course assessment Total number of assessed students: 589 <u>A B C D E FX</u> 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Cellárová, DrSc. | To understand th | he fundamentals | | | | |
| Futuyama, D.J.: Evolutionary biology, Sinauer Associates, Sunderland, 3rd ed., 1997. Dobzhansky T. et al.: Evolution. San Francisco 1977. Course language: Notes: Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | population wav classification. C of onthogeny. I Primary and sec | es, and isolation concept of species Phylogeny of an ondary speciation | n. Natural selections. Macroevolution imals. Evolution n of plants. Repro- | ion. Molecular on. Evolution of nary progress. A oduction-isolation | evolution. Adapta f functions and or Anthropogenesis. on mechanisms. Hy | ations and their rgans, evolution Plant diversity. |
| Notes: Course assessment Total number of assessed students: 589 A B C D E FX 12.56 23.6 24.28 24.45 13.41 1.7 Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | Futuyama, D.J.: | Evolutionary bi | | | erland, 3rd ed., 19 | 97. |
| Course assessmentTotal number of assessed students: 589ABCDEFX12.5623.624.2824.4513.411.7Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | Course languag | ge: | | | | |
| Total number of assessed students: 589ABCDEFX12.5623.624.2824.4513.411.7Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | Notes: | | | | | |
| 12.5623.624.2824.4513.411.7Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | | | ts: 589 | | | |
| Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Beňadik Šmajda, CSc., prof. RNDr. Eva Čellárová, DrSc. | А | В | С | D | Е | FX |
| Čellárová, DrSc. | 12.56 | 23.6 | 24.28 | 24.45 | 13.41 | 1.7 |
| Date of last modification: 29.06.2021 | Provides: prof. DrSc. Čellárová, DrSc. | | rtonfi, PhD., pro | f. RNDr. Beňad | ik Šmajda, CSc., j | prof. RNDr. Eva |
| | Date of last mod | dification: 29.06 | 5.2021 | | | |
| Approved: | Approved: | | | | | |

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

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

| Notes: | | | | | | | |
|--|-------|-------|------|-------|------|-----|------|
| Course assessment Total number of assessed students: 126 | | | | | | | |
| А | В | С | D | Е | FX | Ν | Р |
| 22.22 | 29.37 | 23.02 | 7.14 | 13.49 | 1.59 | 0.0 | 3.17 |
| Provides: RNDr. Katarína Bruňáková, PhD., RNDr. Linda Petijová, PhD., RNDr. Miroslava Bálintová, PhD., doc. MVDr. Mangesh Bhide, PhD. | | | | | | | |
| Date of last modification: 17.02.2021 | | | | | | | |
| Approved: | | | | | | | |

| University: P. J. Šat | árik Univers | ity in Košice | | | |
|---|---|--------------------|-----|-----|-----|
| Faculty: Faculty of | Science | | | | |
| Course ID: ÚBEV/ GB1/03 | Course na | me: Geobotany | | | |
| Course type, scope Course type: Lect Recommended co Per week: 2 / 1 Pe Course method: p | ure / Practice urse-load (h r study perie | ours): | | | |
| Number of ECTS of | credits: 4 | | | | |
| Recommended sem | ester/trimes | ster of the course | | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for cou | rse completi | on: | | | |
| Learning outcomes | : | | | | |
| Brief outline of the | course: | | | | |
| Recommended lite | rature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessment Total number of ass | essed studen | ts: 37 | | | |
| A | В | С | D | Е | FX |
| 56.76 | 24.32 | 18.92 | 0.0 | 0.0 | 0.0 |
| Provides: Ing. Rich | ard Hrivnák, | PhD. | | | |
| Date of last modified | cation: 21.02 | 2.2019 | | | |
| Approved: | , | | | | |

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

| Faculty: Faculty | v of Science | | | | |
|--|---|---|--|--|---|
| Course ID: ÚBE LR1/03 | EV/ Course na | ame: Healing Pl | ants | | |
| | .ecture l course-load (h er study period: | ours): | | | |
| Number of ECT | S credits: 3 | | | | |
| Recommended | semester/trimes | ster of the cours | se: | | |
| Course level: I., | II. | | | | |
| Prerequisities: | | | | | |
| Conditions for c | course completi | on: | | | |
| Learning outcom | mes: | | | | |
| Brief outline of | the course: | | of plants and proc | | of drug Activ |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva | collection. basic s, Flavonoids, H 1 and and post-l ives of medicina aceae, Ericaceae | e terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace | luction of drug. nd their effects s, Essential oils. G gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae. | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, H Caprifoliaceae, A | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: | collection. basic s, Flavonoids, H and and post- ives of medicina aceae, Ericaceae anaceae, Asterae | e terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace | nd their effects s, Essential oils. (gy of Medicinal nilies Papaveracea eae, Plantaginace | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, H Caprifoliaceae, A Recommended | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: lling plants. New | collection. basic s, Flavonoids, H and and post- ives of medicina aceae, Ericaceae anaceae, Asterae | e terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace | nd their effects s, Essential oils. (gy of Medicinal nilies Papaveracea eae, Plantaginace | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, H Caprifoliaceae, A Recommended Pahlow M.: Hea | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: lling plants. New | collection. basic s, Flavonoids, H and and post- ives of medicina aceae, Ericaceae anaceae, Asterae | terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace | nd their effects s, Essential oils. O gy of Medicinal nilies Papaveracea eae, Plantaginace | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended P Pahlow M.: Hea Course languag Notes: Course assessm | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: lling plants. New | collection. basic s, Flavonoids, H and and post-l ives of medicina aceae, Ericaceae anaceae, Asterae V York 1993 | terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace | nd their effects s, Essential oils. O gy of Medicinal nilies Papaveracea eae, Plantaginace | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended P Pahlow M.: Hea Course languag Notes: Course assessm | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: lling plants. New re: ent | collection. basic s, Flavonoids, H and and post-l ives of medicina aceae, Ericaceae anaceae, Asterae V York 1993 | terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace | nd their effects s, Essential oils. O gy of Medicinal nilies Papaveracea eae, Plantaginace | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended P Pahlow M.: Hea Course languag Notes: Course assessme Total number of | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: ling plants. New re: ent Sassessed studen | collection. basic s, Flavonoids, H and and post- ives of medicina aceae, Ericaceae anaceae, Asterae V York 1993 | terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace ceae, Equisetacea | nd their effects s, Essential oils. (gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae. | Centers of origi Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants. |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, F Caprifoliaceae, A Recommended Pahlow M.: Hea Course languag Notes: Course assessme Total number of A 27.05 | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: lling plants. New re: ent Sassessed studen B 25.31 | collection. basic s, Flavonoids, H and and post- ives of medicina aceae, Ericaceae anaceae, Asterae V York 1993 ts: 403 C 19.85 | terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace ceae, Equisetacea | nd their effects s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae. | Eenters of origi Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants. |
| Brief outline of Medicinal Plant substances Alcal of medicinal pla Overview of sele Hypericaceae, H Caprifoliaceae, A Recommended Pahlow M.: Hea Course languag Notes: Course assessme Total number of A | the course: ts, impprtance, o loids, Glycosides ants. Cultivation ected representat Rosaceae, Malva Apiaceae, Valeri literature: ling plants. New re: ent Sassessed studen B 25.31 : Matej Dudáš, F | collection. basic s, Flavonoids, H and and post-lives of medicina aceae, Ericaceae anaceae, Asterae v York 1993 ts: 403 C 19.85 PhD. | terms. Drugs a ormons, Enzyme harvest technolog l plants of the fan e, Scrophulariace ceae, Equisetacea | nd their effects s, Essential oils. C gy of Medicinal nilies Papaveracea eae, Plantaginace ne, Ginkgoaceae. | Eenters of origi Plants, storage ae, Droseraceae eae, Lamiaceae Toxic plants. |

| University: P. J. Š | afárik Univers | ity in Košice | | | |
|---|---|--------------------|------------------|--------------------|-------------|
| Faculty: Faculty of | of Science | | | | |
| Course ID: KF/ DF2p/03 | Course na | me: History of F | Philosophy 2 (Ge | eneral Introductio | n) |
| Course type, scop Course type: Lee Recommended o Per week: 2 / 1 H Course method: | cture / Practice course-load (h Per study perio | ours): | | | |
| Number of ECTS | 6 credits: 4 | | | | |
| Recommended se | emester/trimes | ster of the cours | e: | | |
| Course level: I., I | I. | | | | |
| Prerequisities: | | | | | |
| Conditions for co | ourse completi | on: | | | |
| Learning outcom | es: | | | | |
| Brief outline of th | ne course: | | | | |
| Recommended lit | terature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessmen Total number of a | | ts: 742 | | | |
| A | В | С | D | E | FX |
| 60.78 | 13.88 | 12.67 | 8.63 | 3.37 | 0.67 |
| Provides: Doc. Ph Stojka, PhD. | Dr. Peter Nezi | ník, CSc., PhDr. I | Katarína Mayero | ová, PhD., doc. M | lgr. Róbert |
| Date of last modi | fication: 25.03 | 5.2020 | | | |
| Approved: | | | | | |

| University: P. J. Ša | afárik Universi | ty in Košice | | | |
|--|--|------------------|--------------------|---------------|-----|
| Faculty: Faculty of | f Science | | | | |
| Course ID: KF/ IH2/03 | Course na | me: Idea Huma | nitas 2 (General 1 | Introduction) | |
| Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: 1 | ctice ourse-load (ho study period: | ours): | | | |
| Number of ECTS | credits: 2 | | | | |
| Recommended ser | nester/trimes | ter of the cours | e: 3. | _ | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for cou | irse completio | on: | | | |
| Learning outcome | es: | | | | |
| Brief outline of the | e course: | | | | |
| Recommended lite | erature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessmen Total number of as | - | s: 10 | | | |
| A | В | С | D | E | FX |
| 90.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Provides: Doc. Phl | Dr. Peter Nezn | ík, CSc. | 1 | | |
| Date of last modif | ication: 12.02 | 2021 | | | |
| Approved: | | | | | |

| 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 ECTS credits: 3 Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highlighthe role and importance of immunology in various human diseases. The aim of Immunolog issons is the presentation of the organization and function of the immune system, as well as teomprehension of complex molecular and cellular interactions during the induction of immu responses. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induc Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antig Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology, Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roit's essential immunology 12th ed Wiley-Blackwell Course language: <t< th=""><th>University: P. J. Ša</th><th>ıfárik Universi</th><th>ty in Košice</th><th></th><th></th><th></th></t<> | University: P. J. Ša | ıfárik Universi | ty in Košice | | | |
|--|--|--|---|---|--------------------------------------|----------------------------------|
| MU1/03 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 ECTS credits: 3 Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Recognition. Creating outcomes: Course introduces the students to the basic concepts of immunology as well as highligh the role and importance of immunology in various human diseases. The aim of Immunolog lessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immunology: Lymphatic System Anatomy. The Innate Immune System, The Induc Responses ofInnate Immunity. The Adaptive Immune Response, Antigens and Antibodies, Antige Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complemer Clinical immunology. Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Icneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course assessment Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.7 | Faculty: Faculty of | f Science | | | | |
| Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of ECTS credits: 3 Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highligh the role and importance of immunology in various human diseases. The aim of Immunolog lessons is the presentation of the organization and function of the immune system, as well as to comprehension of complex molecular and cellular interactions during the induction of immu responses. Brif outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induc Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antige Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology. Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Notes: Course language: | Course ID: ÚBEV IMU1/03 | / Course na | me: Immunolog | ХУ | | |
| Recommended semester/trimester of the course: 1. Course level: II. Prerequisities: Conditions for course completion: Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highligh the role and importance of immunology in various human diseases. The aim of Immunolog lessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immu responses. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induc Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antig Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology. Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Votes: Course assessment Course assessment Total number of assessed students: 950 A B C | Course type: Lec Recommended co Per week: 2 Per s | ture ourse-load (ho study period: | ours): | | | |
| Course level: II. Prerequisities: Conditions for course completion: Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highligh the role and importance of immunology in various human diseases. The aim of Immunolog lessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immu responses. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induce Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antige Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology, Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Roitt's essential immunology 12th ed Wiley-Blackwell Course assessment Total number of assessed students: 950 A B C D E FX A B C D E FX 39.68 23.68 | Number of ECTS | credits: 3 | | | | |
| Prerequisities: Conditions for course completion: Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highligh the role and importance of immunology in various human diseases. The aim of Immunolog lessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immu responses. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induce Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antigen Secondition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology, Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Notes: Course assessment Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.79 3.37 | Recommended ser | nester/trimes | ter of the cours | e: 1. | | |
| Conditions for course completion: Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highlighthe role and importance of immunology in various human diseases. The aim of Immunologiessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immu responses. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induc Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antige Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology. Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Notes: Course assessment Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.79 3.37 | Course level: II. | | | | | |
| Recognition. Oral examination. Learning outcomes: This course introduces the students to the basic concepts of immunology as well as highlight the role and importance of immunology in various human diseases. The aim of Immunolog lessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immuresponses. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induce Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antige 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, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Notes: Course language: State System | Prerequisities: | | | | | |
| This course introduces the students to the basic concepts of immunology as well as highlight the role and importance of immunology in various human diseases. The aim of Immunologilessons is the presentation of the organization and function of the immune system, as well as t comprehension of complex molecular and cellular interactions during the induction of immunosystems. Brief outline of the course: Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induce Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antige Recognition by B-cell and T-cell Receptors, Antigen Presentation to T-lymphocytes, Complement Clinical immunology, Disorders of The Immune System. Recommended literature: Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Notes: Caurse assessment Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.79 3.37 | Conditions for cou Recognition. Oral examination. | ırse completio | on: | | | |
| Basic immunology: Lymphatic System Anatomy, The Innate Immune System, The Induc Responses of Innate Immunity, The Adaptive Immune Response, Antigens and Antibodies, Antig 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, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Votes: Course assessment Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.79 3.37 | the role and imported lessons is the prese | rtance of immentation of the | nunology in var organization ar | rious human dis | seases. The aim of the immune system | of Immunology |
| Janeway Ch. A., Travers P., Walport M., Schlomchik M.: Immunobiology. Garland Science, 200 Murphy, K. (2012): Jeneway's Immunobiology. 8th ed. Garland Science Delves, P.J. et al. (2011): Roitt's essential immunology 12th ed Wiley-Blackwell Course language: Notes: Course assessment Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.79 3.37 | Basic immunolog Responses of Innat Recognition by B- Clinical immunolog | y: Lymphatic e Immunity, T cell and T-cell ogy: Allergy a | he Adaptive Imn Receptors, Anti nd other Hypers | nune Response, A gen Presentation sensitivities, Au | Antigens and Anti to T-lymphocyte | bodies, Antiger s, Complement |
| Notes:Course assessmentTotal number of assessed students: 950ABCDEFX 39.68 23.6824.427.051.793.37 | Janeway Ch. A., T Murphy, K. (2012) | ravers P., Walp : Jeneway's Ir | nmunobiology. 8 | 8th ed. Garland S | Science | d Science, 2004 |
| Course assessmentTotal number of assessed students: 950ABCDEFX39.6823.6824.427.051.793.37 | Course language: | | | | | |
| Total number of assessed students: 950 A B C D E FX 39.68 23.68 24.42 7.05 1.79 3.37 | Notes: | | | | | |
| 39.68 23.68 24.42 7.05 1.79 3.37 | | | s: 950 | | | |
| | A | В | С | D | Е | FX |
| | 39.68 | 23.68 | 24.42 | 7.05 | 1.79 | 3.37 |
| Provides: RNDr. Vlasta Demečková, PhD. | Provides: RNDr. V | 'lasta Demečk | ová, PhD. | • | | • |

Approved:

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

| University: P. J. Ša | fárik Univers | ity in Košice | | | |
|---|---|-------------------|-----------------|----------|-----|
| Faculty: Faculty of | Science | | | | |
| Course ID: ÚBEV BIL/19 | Course na | ame: Lichen Biol | ogy | | |
| Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Po Course method: p | ure / Practice wrse-load (h er study peri | e ours): | | | |
| Number of ECTS | credits: 4 | | | | |
| Recommended sen | nester/trimes | ster of the cours | e: 1., 3. | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for cou | rse completi | on: | | | |
| Learning outcome | s: | | | | |
| Brief outline of the | e course: | | | | |
| Recommended lite | rature: | | | | |
| Course language: | | | | | |
| Notes: | | | | | |
| Course assessment Total number of as | | ts: 6 | | | |
| A | В | С | D | Е | FX |
| 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Provides: RNDr. M | lichal Goga, I | PhD., prof. RND | r. Martin Bačko | r, DrSc. | |
| Date of last modifi | cation: 21.02 | 2.2019 | | | |
| Approved: | | | | | |

| $\mathbf{E}_{1} = \mathbf{I}_{1} + \mathbf{E}_{1} = \mathbf{I}_{1}$ | | | | | | | | |
|--|--|--|--|---|---|--|--|--|
| Faculty: Faculty | of Science | | | | | | | |
| Course ID: ÚBE MVR/03 | | | | | | | | |
| Course type, sco Course type: L Recommended Per week: 2 / 2 Course method | ecture / Practico l course-load (h Per study peri | e 1ours): | | | | | | |
| Number of ECT | S credits: 6 | | | | | | | |
| Recommended | semester/trime | ster of the cours | e: 1. | | | | | |
| Course level: II. | | | | | | | | |
| Prerequisities: | | | | | | | | |
| Conditions for a | course complet | ion: | | | | | | |
| | wledge about p | olant-soil interact | ions, nutrient uj | ptake and the rol | le of individua | | | |
| Soil environmer Symbiosis in pla | the course: nt, effect of soil ant nutrition. Ma | on plant growth a acroelements, mic r and phosphate. | roelements and | their role in plant | s. Transport an | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended Marschner H.: N | the course: at, effect of soil ant nutrition. Manitrogen, sulphu literature: Aineral Nutrition bil Science : Met | acroelements, mic | roelements and F The importance s. 2nd ed. Acade | their role in plants of other mineral i mic Press, Londo | s. Transport and nutrients. on 1995. | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended Marschner H.: N Rowell D.L.: So | the course: ant, effect of soil ant nutrition. Manitrogen, sulphu literature: Mineral Nutrition bil Science : Met 94. | acroelements, mic r and phosphate. | roelements and F The importance s. 2nd ed. Acade | their role in plants of other mineral i mic Press, Londo | s. Transport and nutrients. on 1995. | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended Marschner H.: N Rowell D.L.: So Harlow, UK, 199 | the course: ant, effect of soil ant nutrition. Manitrogen, sulphu literature: Mineral Nutrition bil Science : Met 94. | acroelements, mic r and phosphate. | roelements and F The importance s. 2nd ed. Acade | their role in plants of other mineral i mic Press, Londo | s. Transport and nutrients. on 1995. | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended Marschner H.: N Rowell D.L.: So Harlow, UK, 199 Course languag | the course: nt, effect of soil ant nutrition. Manitrogen, sulphu literature: Mineral Nutrition oil Science : Met 94. e: ent | acroelements, mic r and phosphate. T n of Higher Plants thods and applicat | roelements and F The importance s. 2nd ed. Acade | their role in plants of other mineral i mic Press, Londo | s. Transport and nutrients. on 1995. | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended I Marschner H.: N Rowell D.L.: So Harlow, UK, 199 Course languag Notes: Course assessm | the course: nt, effect of soil ant nutrition. Manitrogen, sulphu literature: Mineral Nutrition oil Science : Met 94. e: ent | acroelements, mic r and phosphate. T n of Higher Plants thods and applicat | roelements and F The importance s. 2nd ed. Acade | their role in plants of other mineral i mic Press, Londo | s. Transport and nutrients. on 1995. | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended I Marschner H.: N Rowell D.L.: So Harlow, UK, 199 Course languag Notes: Course assessm Total number of | the course: nt, effect of soil ant nutrition. Manitrogen, sulphu literature: Mineral Nutrition oil Science : Met 94. e: ent `assessed studer | acroelements, mic r and phosphate. 7 n of Higher Plants thods and applicat | roelements and the importance of the importance of the second sec | their role in plants of other mineral n emic Press, Londo Scientific ɦ | s. Transport annutrients. on 1995. 78; Technical, | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course languag Notes: Course assessme Total number of A 47.46 | the course: ht, effect of soil ant nutrition. Ma hitrogen, sulphu literature: Mineral Nutrition bil Science : Met 94. e: ent `assessed studer B 28.81 | n of Higher Plants thods and application | D 0.0 | their role in plants of other mineral n emic Press, Londo Scientific ɦ | s. Transport an nutrients. on 1995. 78; Technical, FX | | | |
| Brief outline of Soil environmer Symbiosis in pla assimilation of r Recommended Marschner H.: M Rowell D.L.: So Harlow, UK, 199 Course languag Notes: Course assessme Total number of A 47.46 | the course: nt, effect of soil ant nutrition. Ma nitrogen, sulphu literature: Mineral Nutrition oil Science : Met 94. e: ent `assessed studer B 28.81 RNDr. Peter Pal'o | n of Higher Plants thods and application nts: 59 C 20.34 ove-Balang, PhD. | D 0.0 | their role in plants of other mineral n emic Press, Londo Scientific ɦ | s. Transport annutrients. on 1995. 78; Technical, FX | | | |

| Faculty: Facult | y of Science | | | | | | | |
|---|--|--|---|---|--|--|--|--|
| Course ID: ÚB FRV1/03 | BEV/ Course name: Physiology of Plant Growth and Development | | | | | | | |
| Recommende | Lecture / Practio d course-load (2 Per study per | ce hours): | | | | | | |
| Number of EC | TS credits: 6 | | | | | | | |
| Recommended | semester/trim | ester of the cours | se: 2. | | | | | |
| Course level: II | [. | | | | | | | |
| Prerequisities: | | | | | | | | |
| Conditions for | course comple | tion: | | | | | | |
| Learning outco | mes: | | | | | | | |
| To learn about l Brief outline of | basic methods a | nd approaches in | | | - | | | |
| To learn about l Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Reg | the course: orphogenesis: iological and o cid. Photomorp ctions, molecula ulation of flowe | nd approaches in phases and kinet developmental eff phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen | ics; differentiatic fects; auxin, gib ctiolation. Phytoc Blue-light respons and programmed | n. Hormones: 1 perellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien | metabolism and innins, ethylene ies, physiology Germination and | | | |
| To learn about l Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regi phototropism, g Recommended | basic methods a the course: aorphogenesis: iological and o cid. Photomorp ctions, molecula ulation of flowe gravitropism and literature: | phases and kinet developmental ef ohogenesis and e ar mechanisms. E ering. Senescence | ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. | metabolism and innins, ethylene ies, physiology Germination and | | | |
| To learn about l Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regu phototropism, g Recommended Taiz L., Zeiger | basic methods a the course: orphogenesis: iological and o cid. Photomorp etions, molecula ulation of flowe gravitropism and literature: E., Plant physic | phases and kinet developmental eff phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen | ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. | metabolism and innins, ethylene ies, physiology Germination and | | | |
| To learn about l Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regu phototropism, g Recommended Taiz L., Zeiger Course languag | basic methods a the course: orphogenesis: iological and o cid. Photomorp etions, molecula ulation of flowe gravitropism and literature: E., Plant physic | phases and kinet developmental eff phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen | ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. | metabolism and innins, ethylene ies, physiology Germination and | | | |
| To learn about l Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regi phototropism, g Recommended Taiz L., Zeiger Course languag Notes: | basic methods a the course: a orphogenesis: iological and a cid. Photomorp etions, molecula ulation of flowe gravitropism and literature: E., Plant physic ge: | phases and kinet developmental eff ohogenesis and e ar mechanisms. E ering. Senescence d nastic movemen ology. Fifth edition | ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. | metabolism and innins, ethylene ies, physiology Germination and | | | |
| To learn about le Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regu phototropism, g Recommended Taiz L., Zeiger Course languag Notes: Course assessm | basic methods a the course: a orphogenesis: iological and a cid. Photomorp etions, molecula ulation of flowe gravitropism and literature: E., Plant physic ge: | phases and kinet developmental eff ohogenesis and e ar mechanisms. E ering. Senescence d nastic movemen ology. Fifth edition | ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. | metabolism and innins, ethylene ies, physiology Germination and | | | |
| To learn about le Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regu phototropism, g Recommended Taiz L., Zeiger Course languag Notes: Course assessm Total number of | basic methods a the course: torphogenesis: iological and a cid. Photomorp etions, molecula ulation of flowe gravitropism and literature: E., Plant physic ge: nent f assessed stude | phases and kinet developmental eff phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen plogy. Fifth edition | ics; differentiatic fects; auxin, gib etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo n. Sinauer ass., Su | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. | metabolism and innins, ethylend ies, physiology Germination and ntation in space | | | |
| To learn about le Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regu phototropism, g Recommended Taiz L., Zeiger Course languag Notes: Course assessm Total number of A 33.93 | basic methods a The course: arrophogenesis: iological and a cid. Photomorp etions, molecula ulation of flowe gravitropism and literature: E., Plant physic ge: nent f assessed stude B 23.21 | phases and kinet developmental eff phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen plogy. Fifth edition ents: 112 | ics; differentiatic fects; auxin, gibi etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo h. Sinauer ass., Su D 14.29 | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. inderland 2010 E 8.04 | FX | | | |
| To learn about I Brief outline of Growth and m transport, phys and abscisic a ecological func dormancy. Regu phototropism, g Recommended Taiz L., Zeiger Course languag Notes: Course assessm Total number of A 33.93 | basic methods a The course: arrophogenesis: iological and a cid. Photomorphotomotomotecol B 23.21 Robert Gregorel | phases and kinet developmental eff phogenesis and e ar mechanisms. E ering. Senescence d nastic movemen plogy. Fifth edition ents: 112 C 17.86 c, RNDr. Michaela | ics; differentiatic fects; auxin, gibi etiolation. Phytoc Blue-light respons and programmed ts. Stress physiolo h. Sinauer ass., Su D 14.29 | n. Hormones: 1 berellins, cytoki hrome: properti ses. Rhythms. G cell death. Orien ogy. inderland 2010 E 8.04 | FX | | | |

| Faculty of Science Course ID: ÚBEV/ Course name: Phytogeography FG1/03 Course type, scope and the method: Course type; Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: I., II. Prerequisities: Conditions for course completion: Written work. Exam. Learning outcomes: To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area on endemites, vicariancy, floral elements. Main course of florogenesis since pale | |
|---|--|
| FG1/03 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: I., II. Prerequisities: Conditions for course completion: Written work. Exam. Exam. Learning outcomes: To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area | |
| Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of ECTS credits: 5 Recommended semester/trimester of the course: Course level: I., II. Prerequisities: Conditions for course completion: Written work. Exam. Learning outcomes: To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area | |
| Recommended semester/trimester of the course: Course level: I., II. Prerequisities: Conditions for course completion: Written work. Exam. Learning outcomes: To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area | |
| Course level: I., II. Prerequisities: Conditions for course completion: Written work. Exam. Learning outcomes: To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area | |
| Prerequisities: Conditions for course completion: Written work. Exam. Learning outcomes: To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area | |
| 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 | |
| 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 | |
| To obtain theoretical and practical knowledge from phytogeography. Brief outline of the course: History of phytogeography. Plants and environment. Chorology, area, area | |
| History of phytogeography. Plants and environment. Chorology, area, area | |
| ages. Postglacial evolution of Slovak vegetation. Regional phytogeography of geography: from tropical rainforests to tundras. Changes of earth vegetation Geographical origin of cultivated plants. Practices: Fieldworks. Preparing of maps. Phytogeographical division of seminar works on phytogeography. | ozoic to quaternary of Earth. Vegetation on and their study. |
| Recommended literature: Hendrych R.: Fytogeografie SPN, Praha 1984. Brown J. H., Lomolino M. V.: Biogeography Sinauer Associates, Sunderland | l, 1998. |
| Course language: | |
| Notes: | |
| Course assessment Total number of assessed students: 374 | |
| A B C D E | FX |
| 39.04 22.46 21.12 8.29 8.29 | |
| Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD. | 0.8 |
| Date of last modification: 03.05.2015 | 0.8 |
| Approved: | 0.8 |

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

Recommended literature:

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

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

Periodicals and Internet sources

Course language:

Notes:

Course assessment

Total number of assessed students: 167

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

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

Date of last modification: 02.02.2021

| University: P. J | . Šafárik Univers | ity in Košice | | | |
|-----------------------------------|---|-------------------|-------|---|-----|
| Faculty: Facult | y of Science | | | | |
| Course ID: ÚB EKR1/03 | EV/ Course na | me: Plant Ecolo | ogy | | |
| Course type: I Recommended | ope and the met Lecture / Practice I course-load (h 2 Per study peri d: present | ours): | | | |
| Number of EC | | | | | |
| Recommended | semester/trimes | ster of the cours | e: 2. | | |
| Course level: II | - | | | | |
| Prerequisities: | | | | | |
| Conditions for | course completi | on: | | | |
| Learning outco Introduction to | | | | | |
| between individ | of plant integrat luals and populati | on, dynamics of | | of plant population Interactions betwo systems. | |
| Recommended | literature: | | | | |
| Course languag | ge: | | | | |
| Notes: | | | | | |
| Course assessment Total number of | lent f assessed studen | ts: 252 | | | |
| А | В | С | D | E | FX |
| 73.81 | 16.27 | 5.95 | 2.38 | 1.59 | 0.0 |
| Provides: prof. | RNDr. Martin Ba | ačkor, DrSc. | | | - |
| Date of last mo | dification: 03.05 | 5.2015 | | | |
| Approved: | | | | | |

| | | sity in Košice | | | |
|--|---|---|--|--|--|
| Faculty: Faculty | of Science | | | | |
| Course ID: ÚBE ER1/01 | EV/ Course n | ame: Plant Embr | yology | | |
| Course type, sco Course type: L Recommended Per week: 1 / 1 Course method | ecture / Practic course-load (I Per study per | e 1ours): | | | |
| Number of ECT | S credits: 3 | | | | |
| Recommended s | semester/trime | ster of the cours | e: | | |
| Course level: II. | | | | | |
| Prerequisities: | | | | | |
| Conditions for c Oral examination | - | ion: | | | |
| Learning outcom To provide the s | | e general principle | es of embryogen | esis of the seed pl | lants |
| | • | | | | bryo sac. Egg, |
| synergids, antipo Microsporogene fertilization. Do | odals and polar sis. Pollen gra uble fertilization dones, radicel. | nuclei. Types the iin. Generative a n. Endosperm. En Development of t | embryo sacs. De nd tube nucleu nbryogenesis (m | velopment of mal s. Pollen tube. I ono- and dicotyle | le gametophyte. Pollination and edonous plants). |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyleo in vitro. Recommended I Johri, B.M. (198 | odals and polar sis. Pollen gra uble fertilization dones, radicel. I literature: 84)Plant embryc ren, P.H., Evert, | nuclei. Types the in. Generative a n. Endosperm. En | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz | velopment of mal s. Pollen tube. I ono- and dicotyle xis. Development | le gametophyte. Pollination and edonous plants). t the embryoids |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav | odals and polar sis. Pollen gra uble fertilization dones, radicel. I literature: 84)Plant embryc ren, P.H., Evert, New York | nuclei. Types the in. Generative a n. Endosperm. En Development of t ology:Embryogen | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz | velopment of mal s. Pollen tube. I ono- and dicotyle xis. Development | le gametophyte. Pollination and edonous plants). t the embryoids |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav and Company, N | odals and polar sis. Pollen gra uble fertilization dones, radicel. I literature: 84)Plant embryc ren, P.H., Evert, New York | nuclei. Types the in. Generative a n. Endosperm. En Development of t ology:Embryogen | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz | velopment of mal s. Pollen tube. I ono- and dicotyle xis. Development | le gametophyte. Pollination and edonous plants). t the embryoids |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav and Company, N Course languag | odals and polar esis. Pollen gra uble fertilization dones, radicel. I literature: 84)Plant embryc ren, P.H., Evert, New York e: ent | nuclei. Types the in. Generative a n. Endosperm. En Development of t ology:Embryogen R.F. and Eichhor | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz | velopment of mal s. Pollen tube. I ono- and dicotyle xis. Development | le gametophyte. Pollination and edonous plants). t the embryoids |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav and Company, N Course languag Notes: Course assessme | odals and polar esis. Pollen gra uble fertilization dones, radicel. I literature: 84)Plant embryc ren, P.H., Evert, New York e: ent | nuclei. Types the in. Generative a n. Endosperm. En Development of t ology:Embryogen R.F. and Eichhor | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz | velopment of mal s. Pollen tube. I ono- and dicotyle xis. Development | le gametophyte. Pollination and edonous plants). t the embryoids |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav and Company, N Course languag Notes: Course assessme Total number of | odals and polar sis. Pollen gra uble fertilization dones, radicel. 1 literature: 34)Plant embryc ren, P.H., Evert, New York e: ent assessed studen | nuclei. Types the iin. Generative a n. Endosperm. En Development of t ology:Embryogen R.F. and Eichhor | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz y of Angiosperm n S.E. (2003) Bi | velopment of mal s. Pollen tube. I ono- and dicotyle xis. Development ns. Springer-Verla ology of Plants. V | le gametophyte. Pollination and edonous plants). t the embryoids g, Berlin, W.H.Freeman |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav and Company, N Course languag Notes: Course assessme Total number of A | odals and polar : sis. Pollen gra uble fertilization dones, radicel. 1 literature: 34)Plant embryc ren, P.H., Evert, New York e: ent 'assessed studen B 28.35 | nuclei. Types the in. Generative a n. Endosperm. En Development of t ology:Embryogen R.F. and Eichhor nts: 127 C 14.96 | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz y of Angiosperm n S.E. (2003) Bi | E | e gametophyte. Pollination and edonous plants). t the embryoids eg, Berlin, W.H.Freeman |
| synergids, antipo Microsporogene fertilization. Dou Plumule, cotyled in vitro. Recommended I Johri, B.M. (198 Heidelberg. Rav and Company, N Course languag Notes: Course assessme Total number of A 45.67 | odals and polar : sis. Pollen gra uble fertilization dones, radicel. 1 literature: 34)Plant embryc ren, P.H., Evert, New York e: ent 'assessed studen B 28.35 : Lenka Marton | nuclei. Types the in. Generative a n. Endosperm. En Development of t ology:Embryogen R.F. and Eichhor nts: 127 C 14.96 fiová | embryo sacs. De nd tube nucleu nbryogenesis (m he seed. Apomiz y of Angiosperm n S.E. (2003) Bi | E | e gametophyte. Pollination and edonous plants). t the embryoids eg, Berlin, W.H.Freeman |

| Faculty: Faculty | y of Science | | | | |
|--|---|--|--|---|---|
| Course ID: ÚB MR1/03 | EV/ Course n | ame: Plant Meta | bolism | | |
| Recommended | Lecture / Practic d course-load (l 2 Per study per | e hours): | | | |
| Number of EC | FS credits: 6 | | | | |
| Recommended | semester/trime | ester of the cours | se: 1. | | |
| Course level: II | • | | | | |
| Prerequisities: | | | | | |
| Conditions for Examen | course complet | ion: | | | |
| Learning outco To provide the | | pathways of bio | synthesis in plan | t and functions | of primary and |
| secondary meta Brief outline of Photosynthesis: | the course: | | oparatus, light a | | |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, 1 metabolism. Te phenylpropanes | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynth | | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amin . Phenolic compo | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, 1 metabolism. Te phenylpropanes literature: hotosynthesis. T | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthesis, flavonoids and | oparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways of plant defense. |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, metabolism. Te phenylpropanes literature: hotosynthesis. Te h edition. Sinau | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthesis, flavonoids and Third edition. BIO | oparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways of plant defense. |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P physiology. Fift | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, metabolism. Te phenylpropanes literature: hotosynthesis. Te h edition. Sinau | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthesis, flavonoids and Third edition. BIO | oparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways of plant defense. |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P physiology. Fift Course languag Notes: Course assessm | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, metabolism. Te phenylpropanes literature: hotosynthesis. T th edition. Sinau | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthes s, flavonoids and Third edition. BIC ter ass., Sunderlar | oparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways of plant defense. |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P physiology. Fift Course languag Notes: Course assessm | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, metabolism. Te phenylpropanes literature: hotosynthesis. T th edition. Sinau ge: | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthes s, flavonoids and Third edition. BIC ter ass., Sunderlar | oparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amin . Phenolic compo s. Mechanisms o | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways of plant defense. |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P physiology. Fift Course languag Notes: Course assessm Total number of | the course: structure of p ophosphorylatio sis of starch an IP synthesis. Lip olism: fixation, metabolism. Te phenylpropanes literature: hotosynthesis. T h edition. Sinau ge: | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthesis, flavonoids and Third edition. BIC ter ass., Sunderlan | oparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid OS, Oxford 2001; nd 2010 | bsorption, electr hotorespiration. sis, citric acid o carbohydrates. onversion to amir . Phenolic compo s. Mechanisms o Taiz L., Zeiger F | con and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense. E., Plant |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P physiology. Fift Course languag Notes: Course assessm Total number of A 25.66 | the course: structure of p ophosphorylatio sis of starch and IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanes literature: hotosynthesis. Te hotosynthesis. Te f assessed studen B 17.7 | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthesis, flavonoids and Third edition. BIO ter ass., Sunderland nts: 113 | pparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid DS, Oxford 2001; nd 2010 | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amir . Phenolic compo s. Mechanisms o Taiz L., Zeiger F | ron and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense. E., Plant FX |
| Brief outline of Photosynthesis: transport, photo plants. Synthes transport and AT Nitrogen metab assimilation and of biosynthesis, Recommended Lawlor D. W. P physiology. Fift Course languag Notes: Course assessm Total number of A 25.66 | the course: structure of p ophosphorylatio sis of starch and IP synthesis. Lip olism: fixation, I metabolism. Te phenylpropanes literature: hotosynthesis. Te hotosynthesis. Te f assessed studer B 17.7 RNDr. Peter Pal ² | photosynthetic ap on. Calvin cycle nd sucrose. Res pid biosynthesis a nitrate assimilati erpenes: biosynthesis s, flavonoids and Third edition. BIO er ass., Sunderland nts: 113 C 17.7 | pparatus, light a , rubisco and p piration: glycoly and convertion int on, ammonium co esis and functions lignins. Alkaloid DS, Oxford 2001; nd 2010 | bsorption, electr hotorespiration. rsis, citric acid o carbohydrates. onversion to amir . Phenolic compo s. Mechanisms o Taiz L., Zeiger F | ron and proton C4 and CAM cycle, electron Polyacetylenes. no acids. Sulfur ounds: pathways of plant defense. E., Plant FX |

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

| Faculty: Facu | lty of So | cience | | | | |
|---|---|---|---|--|--|---|
| Course ID: Ú TR1/99 | BEV/ | Course nar | me: Plant Taxo | nomy | | |
| Course type, s Course type: Recommend Per week: 2 Course meth | E Lecture ed cour 2 Per s | e / Practice se-load (ho study perio | ours): | | | |
| Number of E | CTS cre | edits: 5 | | | | |
| Recommende | d semes | ster/trimest | er of the cour | se: 1. | | |
| Course level: | II. | | | | | |
| Prerequisities | : | | | | | |
| Conditions fo Information o Exam. | | - | | | | |
| Learning out To learn abou | | nethods and | approaches in | plant taxonomy. | | |
| data. Variation utilization in phylogeny of | n in pla taxonor tracheog ns, prim | ints and the my. Molecu phytes acco ary and seco | ir study. Nume lar data as im rding to the ne | erical taxonomy portant data of west data. Evolu | e of informationa (phenetics). Clac recent systematic ution in populatio anical nomenclatu | distics and their cs. Overview of ns, principles of |
| 2001. Stuessy T. F.: Judd W. S., C. Phylogenetic | llters S. Plant Ta ampbell Approad al. (Eds | M.: Proměn axonomy 1 . Ch. S., Kel ch, 2nd ed | New York, Oxf logg E. A., Ste Sinauer Assoc | ford 1990. vens P. F., Dono ciates, Sunderlan | erzita Palackého, ghue M. J.: Plant Id, 2002. atúry (Saint Louis | Systematics. A |
| Course langu | age: | | | | | |
| | | | | | | |
| Notes: | | | | | | |
| Notes: Course assess Total number | | sed students | s: 127 | | | |
| Course assess | | B | s: 127 C | D | E | FX |

Date of last modification: 03.05.2015

| | COURSE INFORMATION LETTER |
|---|---|
| University: P. J. Šafá | rik University in Košice |
| Faculty: Faculty of S | cience |
| Course ID: ÚBEV/ STFR/20 | Course name: Plant stress physiology |
| Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre | re / Practice rse-load (hours): study period: 28 / 28 |
| Number of ECTS cr | edits: 5 |
| Recommended seme | ester/trimester of the course: 2. |
| Course level: II. | |
| Prerequisities: | |
| Conditions for cours | se completion: |
| and survival under sta Mastering the method Brief outline of the c Causes, types and syn General mechanisms Plant stress reactions salicylic acid, abscisia related to stress respond Reactive oxygen spece Examples of known p and subsequent physic to the stress condition Practicals: cultivation of results. | dology for determination of basic stress response markers. course: mptoms of stress. Biotic and abiotic stress. of stress reactions in living organisms. s – synthesis of plant hormones (auxins, cytokinins, ethylene, jasmonic acid, c acid, NO and others), proteins, secondary metabolites and other compounds onse. cies and their role in the stres-response. plant stress signalling cascades starting from signal perception, its processing iological changes leading to execution of growth and developmental reaction n. n of experimental plants under stress conditions, their analysis and evaluation |
| Hirt H., 2009: Plant s Pessarakli M. ed., 20 | ature: ik I. 2007: Fyziologické procesy rastlín v podmienkach stresu, Bratislava stress biology, Wiley-Blackwell 11: Handbook of Plant and Crop Stress, Third edition, CRC Press |
| Taiz L, Zeiger E, ed. | 2018 Plant physiology and development, 6th editon, Oxford |
| Taiz L, Zeiger E, ed. Course language: | 1 / / |

| Course assessment Total number of assessed students: 3 | | | | | | | | | |
|---|---|---|---|---|----|--|--|--|--|
| А | В | С | D | Е | FX | | | | |
| 66.67 | 66.67 33.33 0.0 0.0 0.0 0.0 | | | | | | | | |
| Provides: RND | Provides: RNDr. Michal Goga, PhD., RNDr. Michaela Bačovčinová, PhD. | | | | | | | | |
| Date of last modification: 18.02.2020 | | | | | | | | | |
| Approved: | | | | | | | | | |

| Faculty: Faculty of Sc | vience |
|---|---|
| Course ID: | Course name: Psychology and Health Psychology (Master's Study) |
| KPPaPZ/PPZMg/12 | Course name. I sychology and freaturit sychology (Master's Study) |
| Course type, scope an Course type: Lecture Recommended cour Per week: 1 / 2 Per s Course method: pres | e / Practice rse-load (hours): study period: 14 / 28 |
| Number of ECTS cre | edits: 4 |
| Recommended semes | ster/trimester of the course: |
| Course level: II. | |
| Prerequisities: | |
| Written examination (Conditions for admiss Conditions for the fina Exam: written form (r Conditions for succe assignments and at lea Detailed information subject will be realize | ion and discussion on a selected topic - max. 15 points. (maximum 30 points). sion to the exam: min. 25 points. al assessment: max. 50 points, min. 25 points) essful completion of the course: participation in lessons, fulfillment of ast 66 points from the overall evaluation. in the electronic bulletin board of the course in AIS2. The teaching of the d by a combined method. |
| salutogenic factors as the knowledge especi | erstand the basic concepts and theories of health psychology, can explai well as the consequences of risk behavior related to health. He is able to appl ally in the field of prevention of burnout syndrome and support of menta a teacher. |
| health in the work of a | burse: |

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

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

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

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

Psychology. New York, Russell Sage Foundation, 2003.

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

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

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

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

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 226

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

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

Date of last modification: 07.07.2021

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

Provides: Mgr. Agata Horbacz, PhD.

Date of last modification: 15.03.2019

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

| University: P. J. Šafá | rik Univers | ity in Košice | |
|---|----------------------------------|------------------------------|------------------------------------|
| Faculty: Faculty of S | cience | | |
| Course ID: KPPaPZ/SPVKE/07 | Course na Situations | me: Social-Psychological Tra | ining of Coping with Critical Life |
| Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre | ce rse-load (he dy period: | ours): | |
| Number of ECTS cr | edits: 2 | | |
| Recommended seme | ster/trimes | ter of the course: 2. | |
| Course level: II. | | | |
| Prerequisities: | | | |
| Conditions for cours | e completi | on: | |
| Learning outcomes: | | | |
| Brief outline of the c | ourse: | | |
| Recommended litera | iture: | | |
| Course language: | | | |
| Notes: | | | |
| Course assessment Total number of asse | ssed studen | ts: 126 | |
| abs | | n | Z |
| 97.62 | | 2.38 | 0.0 |
| Provides: Mgr. Ondro | ej Kalina, P | hD. | |
| Date of last modifica | tion: 11.02 | .2021 | |
| Approved: | | | |

| University: P. J. Šafa | arik University in Košice |
|---|---|
| Faculty: Faculty of S | Science |
| Course ID: ÚTVŠ/ TVa/11 | Course name: Sports Activities I. |
| Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: co | ce irse-load (hours): idy period: 28 |
| Number of ECTS ci | redits: 2 |
| Recommended sem | ester/trimester of the course: 1. |
| Course level: I., I.II. | , II. |
| Prerequisities: | |
| Conditions for cour Min. 80% of active p | se completion: participation in classes. |
| They have a great in | I their forms prepare university students for their professional and personal life npact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also |
| University provides badminton, body for indoor football, S-M In the first two seme and particularities of physical condition, of Last but not least, th | |

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

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

| Faculty: Fa | culty of Sc | eience | | | | | |
|---|--|---|---|---|---|---|---|
| Course ID: TVb/11 | ÚTVŠ/ | Course name | : Sports Acti | vities II. | | | |
| Course ty Recomme Per week: | pe: Practic nded cour 2 Per stud | nd the method e se-load (hour ly period: 28 abined, presen | s): | | | | |
| Number of | ECTS cre | dits: 2 | | | | | |
| Recommen | ded semes | ter/trimester | of the cours | se: 2. | | - | |
| Course leve | el: I., I.II., | II. | | | | | |
| Prerequisit | ies: | | | | | | |
| | | e completion: classes - min. | 80%. | | | | |
| They have | a great im | their forms pre pact on physic | 1 | 5 | - | - | |
| improve. | | _ | r relationshi | p towards th | e selected s | - | |
| improve. Brief outlin Within the University badminton, indoor foot In the first and particul physical co Last but no means of a In addition physical edithe premise | ne of the co optional su provides body form ball, S-M s two semes larities of in ordition, co t least, the special pro- to these s ucation traines of the fac | burse: abject, the Inst for students t a, bouldering, f systems, step a ters of the first adividual sport bordination ab- important role ogram of media ports, the Inst anings with an a ulty or University | itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers attractive pro | sical Education g sports action ga, power yog e tennis, tenno lucation study ls, game action cal performativities is to e education to for those who ogram and org | on and Sport ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interes ganises variou | port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio | h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at |
| improve. Brief outlin Within the University badminton, indoor foot In the first and particul physical co Last but no means of a In addition physical ed the premise | ne of the co optional su provides body form ball, S-M s two semes larities of in ordition, co t least, the special pro- to these s ucation trai es of the fac | burse: abject, the Inst for students t a, bouldering, f systems, step a ters of the first adividual sport bordination ab- important role ogram of media ports, the Inst anings with an a ulty or University | itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers attractive pro | sical Education g sports action ga, power yog e tennis, tenno lucation study ls, game action cal performativities is to e education to for those who ogram and org | on and Sport ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interes ganises variou | port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio | h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at |
| improve. Brief outlin Within the University badminton, indoor foot In the first and particul physical co Last but no means of a In addition physical ed the premise Recommen | ne of the co optional su provides body form ball, S-M s two semes larities of in ordition, co t least, the special pro- to these s ucation trai es of the fac | burse: abject, the Inst for students t a, bouldering, f systems, step a ters of the first adividual sport bordination ab- important role ogram of media ports, the Inst anings with an a ulty or University | itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers attractive pro | sical Education g sports action ga, power yog e tennis, tenno lucation study ls, game action cal performativities is to e education to for those who ogram and org | on and Sport ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interes ganises variou | port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio | h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at |
| improve. Brief outlin Within the University badminton, indoor foot In the first and particul physical co Last but no means of a In addition physical ed the premise Recommen Course lang | ne of the co optional su provides body form ball, S-M s two semes larities of in ordition, co t least, the special pro- to these s ucation trai es of the fac ded literat | burse: abject, the Inst for students t a, bouldering, f systems, step a ters of the first adividual sport bordination ab- important role ogram of media ports, the Inst anings with an a ulty or University | itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers attractive pro | sical Education g sports action ga, power yog e tennis, tenno lucation study ls, game action cal performativities is to e education to for those who ogram and org | on and Sport ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interes ganises variou | port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio | h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at |
| improve. Brief outlin Within the University badminton, indoor foot In the first and particul physical co Last but no means of a In addition physical edi the premise Recommen Course lang Notes: Course asso | ne of the co optional su provides body form ball, S-M s two semes larities of in ondition, co t least, the special pro- to these s ucation traises of the fac ded literat guage: | ourse: abject, the Inst for students t a, bouldering, f systems, step a ters of the first adividual sport bordination ab- important role ogram of medic ports, the Inst aulty or Universe ture: | itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers attractive pro sity or compe | sical Education g sports action ga, power yog e tennis, tenno lucation study ls, game action cal performativities is to e education to for those who ogram and org | on and Sport ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interes ganises variou | port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio | h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at |
| improve. Brief outlin Within the University badminton, indoor foot In the first and particul physical co Last but no means of a In addition physical edi the premise Recommen Course lang Notes: Course asso | ne of the co optional su provides body form ball, S-M s two semes larities of in ondition, co t least, the special pro- to these s ucation traises of the fac ded literat guage: | burse: abject, the Inst for students t a, bouldering, f systems, step a ters of the first adividual sport bordination ab- important role ogram of medic ports, the Inst anings with an a ulty or University | itute of Phys he following loorball, yog erobics, tabl st level of ed ts, motor skil ilities, physic of sports ac cal physical itute offers attractive pro sity or compe | sical Education g sports action ga, power yog e tennis, tenno lucation study ls, game action cal performativities is to e education to for those who ogram and org | on and Sport ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mo eliminate swi influence and to are interes ganises variou | port in whic s of Pavol Jo bics, aikido, vimming, boo l and chess. ster basic cha vill improve lo tor performa imming illite d mitigate un sted winter a us competitio | h they also ozef Šafárik basketball, dy-building, aracteristics evel of their ince fitness. racy and by ifitness. and summer ons, either at |

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

Date of last modification: 13.05.2021

| University. | : P. J. Šafári | K Oniversity i | II KOSICE | | | | |
|---|---|---|---|---|---|--|---|
| Faculty: Fa | aculty of Sci | ience | | | | | |
| Course ID: TVc/11 | ÚTVŠ/ | Course name: | : Sports Acti | vities III. | | | |
| Course ty Recomme Per week: | pe: Practice nded cours 2 Per stud | d the method se-load (hours y period: 28 bined, present | s): | | | | |
| Number of | ECTS cree | dits: 2 | | | | | |
| Recommen | ded semest | ter/trimester | of the cours | se: 3. | | | |
| Course leve | el: I., I.II., I | I. | | | | | |
| Prerequisit | ies: | | | | | | |
| | | completion: ticipation in c | lasses | | | | |
| They have | vities in all th a great imp | heir forms prep bact on physic rengthen their | al fitness an | d performan | ce. Specializ | ation in spor | rts activities |
| University badminton, indoor foot In the first and particu physical co Last but no means of a In addition physical ed the premise | optional su provides f body form, ball, S-M sy two semest larities of in ondition, co t least, the i special pro- to these sp ucation trainers of the facu | bject, the Inst or students the bouldering, f ystems, step a ters of the firs ordividual sport ordination abi important role gram of medic ports, the Inst nings with an a alty or Univers | he following loorball, yog erobics, tabl t level of ed s, motor skil ilities, physi- of sports ac cal physical itute offers | g sports acti ga, power yog e tennis, tenr ucation stud- ls, game acti cal performa tivities is to e education to for those wh ogram and org | ivities: aerob ga, pilates, sw nis, volleybal ents will mas vities, they w ince, and mo eliminate swi influence and to are interest ganises variou | bics, aikido, vimming, boo l and chess. ster basic ch vill improve l tor performa imming illite d mitigate ur sted winter a us competitio | basketball dy-building aracteristics level of their ance fitness eracy and by nfitness. and summe ons, either a |
| Recommen | ded literat | ure: | | | | | |
| Course lan | auaaa | | | | | | |
| | guage: | | | | | | |
| Notes: | guage: | | | | | | |
| Notes: Course ass | essment | ad students: 7 | 1973 | | | | |
| Notes: Course ass | essment | sed students: 7 | /873 abs-C | abs-D | abs-E | | neabs |

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

Date of last modification: 13.05.2021

| Faculty: Fa | | | n Košice | | | | |
|---|--|--|---|---|--|---|---|
| | aculty of Sc | ience | | | | | |
| Course ID TVd/11 | :ÚTVŠ/ | Course name: | Sports Acti | ivities IV. | | | |
| Course ty Recomme Per week | pe: Practice ended cours : 2 Per stud | d the method e se-load (hours y period: 28 bined, present | 5): | | | | |
| Number of | f ECTS cre | dits: 2 | | | | | |
| Recommer | nded semes | ter/trimester | of the cours | se: 4. | | | |
| Course lev | el: I., I.II., I | I. | | | | | |
| Prerequisi | ties: | | | | | | |
| | | completion: ticipation in c | lasses | | | | |
| They have | vities in all t a great imp | heir forms prep bact on physic rengthen their | al fitness an | d performan | ce. Specializa | ation in spor | ts activities |
| | ne of the co | | | | | | |
| University badminton indoor foor In the first and particu physical co Last but no means of a In addition physical co | provides f , body form, tball, S-M s two semest larities of in ondition, co ot least, the i special pro- n to these sp lucation train | or students the bouldering, fly ystems, step ad ters of the firs idividual sport ordination abi important role gram of medic ports, the Inst nings with an a alty or Univers | he following loorball, yog erobics, tabl t level of ed s, motor skil lities, physi- of sports ac cal physical itute offers | g sports acti ga, power yog e tennis, tenr lucation stud- ls, game acti- cal performa tivities is to e education to for those wh ogram and org | ga, pilates, sw his, volleyball ents will mas vities, they w nce, and mot eliminate swi influence and to are interes ganises variou | bics, aikido, rimming, boo l and chess. ster basic cha ill improve la tor performa mming illite d mitigate un ted winter a us competitio | basketball, dy-building, aracteristics evel of their ince fitness. racy and by fitness. and summer ons, either at |
| University badminton indoor foor In the first and particu physical co Last but no means of a In addition physical co the premise | provides f , body form, tball, S-M s two semest larities of in ondition, co ot least, the i special pro- n to these sp lucation train | or students the bouldering, fly ystems, step activity ordination abi- important role gram of medic ports, the Inst- nings with an a- alty or Univers | he following loorball, yog erobics, tabl t level of ed s, motor skil lities, physi- of sports ac cal physical itute offers | g sports acti ga, power yog e tennis, tenr lucation stud- ls, game acti- cal performa tivities is to e education to for those wh ogram and org | ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mot eliminate swi influence and to are interes ganises variou | bics, aikido, rimming, boo l and chess. ster basic cha ill improve la tor performa mming illite d mitigate un ted winter a us competitio | basketball, dy-building, aracteristics evel of their ince fitness, racy and by fitness, and summer ons, either at |
| University badminton indoor foor In the first and particu physical co Last but no means of a In addition physical co the premise | provides f , body form, tball, S-M s two semest larities of in ondition, co ot least, the special pro- to these sp lucation trainers of the fact and literat | or students the bouldering, fly ystems, step activity ordination abi- important role gram of medic ports, the Inst- nings with an a- alty or Univers | he following loorball, yog erobics, tabl t level of ed s, motor skil lities, physi- of sports ac cal physical itute offers | g sports acti ga, power yog e tennis, tenr lucation stud- ls, game acti- cal performa tivities is to e education to for those wh ogram and org | ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mot eliminate swi influence and to are interes ganises variou | bics, aikido, rimming, boo l and chess. ster basic cha ill improve la tor performa mming illite d mitigate un ted winter a us competitio | basketball, dy-building, aracteristics evel of their ince fitness, racy and by fitness, and summer ons, either at |
| University badminton indoor foor In the first and particu physical co Last but no means of a In addition physical co the premise | provides f , body form, tball, S-M s two semest larities of in ondition, co ot least, the special pro- to these sp lucation trainers of the fact and literat | or students the bouldering, fly ystems, step activity ordination abi- important role gram of medic ports, the Inst- nings with an a- alty or Univers | he following loorball, yog erobics, tabl t level of ed s, motor skil lities, physi- of sports ac cal physical itute offers | g sports acti ga, power yog e tennis, tenr lucation stud- ls, game acti- cal performa tivities is to e education to for those wh ogram and org | ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mot eliminate swi influence and to are interes ganises variou | bics, aikido, rimming, boo l and chess. ster basic cha ill improve la tor performa mming illite d mitigate un ted winter a us competitio | basketball, dy-building, aracteristics evel of their ince fitness, racy and by fitness, and summer ons, either at |
| University badminton indoor foor In the first and particu physical co Last but no means of a In addition physical ec the premise Recommen Course lan Notes: | provides f , body form tball, S-M s two semest larities of in ondition, co ot least, the i special pro- n to these sp lucation traines of the fact nded literat | or students the bouldering, fly stems, step ad ters of the first adividual sport ordination abit important role gram of medic borts, the Instinuings with an a alty or Universe ure: | he following loorball, yog erobics, tabl t level of ed s, motor skil lities, physic of sports ac cal physical itute offers attractive pro- | g sports acti ga, power yog e tennis, tenr lucation stud- ls, game acti- cal performa tivities is to e education to for those wh ogram and org | ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mot eliminate swi influence and to are interes ganises variou | bics, aikido, rimming, boo l and chess. ster basic cha ill improve la tor performa mming illite d mitigate un ted winter a us competitio | basketball, dy-building, aracteristics evel of their ince fitness, racy and by fitness, and summer ons, either at |
| University badminton indoor foor In the first and particu physical co Last but no means of a In addition physical ec the premise Recommer Course lan Notes: | provides f , body form tball, S-M s two semest larities of in ondition, co ot least, the i special pro- n to these sp lucation traines of the fact nded literat | or students the bouldering, fly ystems, step activity ordination abi- important role gram of medic ports, the Inst- nings with an a- alty or Univers | he following loorball, yog erobics, tabl t level of ed s, motor skil lities, physic of sports ac cal physical itute offers attractive pro- | g sports acti ga, power yog e tennis, tenr lucation stud- ls, game acti- cal performa tivities is to e education to for those wh ogram and org | ivities: aerob ga, pilates, sw his, volleybal ents will mas vities, they w nce, and mot eliminate swi influence and to are interes ganises variou | bics, aikido, rimming, boo l and chess. ster basic cha ill improve la tor performa mming illite d mitigate un ted winter a us competitio | basketball, dy-building, aracteristics evel of their ince fitness, racy and by fitness, and summer ons, either at |

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

Date of last modification: 13.05.2021

| University: P. J. | Šafárik Universi | ity in Košice | | | |
|---|---------------------------------------|------------------|------------------|-----|-----|
| Faculty: Faculty | of Science | | | | |
| Course ID: ÚBE SVK/01 | V/ Course na | me: Student Sci | entific Conferen | ce | |
| Course type, sco Course type: Recommended Per week: Per Course method | - course-load (ho study period: | | | | |
| Number of ECT | S credits: 4 | | | | |
| Recommended s | emester/trimes | ter of the cours | e: | | |
| Course level: I., | II | | | | |
| Prerequisities: | | | | | |
| Conditions for co | ourse completio | on: | | | |
| Learning outcon | nes: | | | | |
| Brief outline of t | he course: | | | | |
| Recommended li | iterature: | | | | |
| Course language | | | | | |
| Notes: | | | | | |
| Course assessme Total number of a | | s: 289 | | | |
| A | В | С | D | Е | FX |
| 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Provides: | | | | | |
| Date of last mod | ification: 03.05 | .2015 | | | |
| Approved: | | | | | |

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

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

| Faculty: Faculty of S | rik University in Košice | | | | | |
|--|---|--|--|--|--|--|
| racuity. racuity of S | cience | | | | | |
| 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: combined, present | | | | | | |
| Number of ECTS cr | redits: 2 | | | | | |
| Recommended seme | ester/trimester of the course: | | | | | |
| Course level: I., II. | | | | | | |
| Prerequisities: | | | | | | |
| Conditions for course Conditions for course Attendance Final assessment: con | • | | | | | |
| Learning outcomes: Learning outcomes: Students will be familiarized with principles of safe stay and movement in extreme natural conditions as they will obtain theoretical knowledge and practical skills to solve the extraordinary and demanding situations connected with survival and minimization of damage to health. The course develops team work and students will learn how to manage and face the situations that require overcoming of obstacles. | | | | | | |
| conditions as they wi and demanding situa course develops tear | ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that | | | | | |
| conditions as they will and demanding situal course develops tear require overcoming of Brief outline of the c Brief outline of the c Lectures: 1. Principles of behav 2. Preparation and lea 3. Objective and subj 4. Principles of hygie Exercises: 1. Movement in terra | ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. course: ourse: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay | | | | | |
| conditions as they will and demanding situal course develops team require overcoming of Brief outline of the course of | ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. course: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay | | | | | |
| conditions as they will and demanding situal course develops tear require overcoming of Brief outline of the construction of the construc | ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. course: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay | | | | | |

| Course assessment Total number of assessed students: 393 | | | | | |
|---|-------|--|--|--|--|
| abs | n | | | | |
| 44.53 | 55.47 | | | | |
| Provides: MUDr. Peter Dombrovský, Mgr. Ladislav Kručanica, PhD. | | | | | |
| Date of last modification: 15.03.2019 | | | | | |
| Approved: | | | | | |

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

Semestral written test.

Oral examination

Learning outcomes:

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

Brief outline of the course:

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

Recommended literature:

Buchar, J., 1983: Zoogeografie. SPN Praha

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

Course language:

Notes:

| Course assessment Total number of assessed students: 948 | | | | | | | | |
|---|-------|-------|-------|------|------|--|--|--|
| А | В | С | D | Е | FX | | | |
| 23.95 | 23.31 | 24.26 | 18.78 | 7.91 | 1.79 | | | |
| Provides: prof. RNDr. Ľubomír Kováč, CSc. | | | | | | | | |
| Date of last modification: 05.10.2017 | | | | | | | | |
| Approved: | | | | | | | | |