

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |
| <b>Course ID:</b> CJP/<br>PFAJAKA/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Course name:</b> Academic English |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> combined, present                                                                                                                                                                                                                                                                                                              |                                      |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Course level:</b> I., II., N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
| <b>Conditions for course completion:</b><br>kontrolný písomný test, aktivita na hodine<br>záverečný písomný test<br>povolené max. 2 absencie<br>stupnica hodnotenia: A 93-100, B 86-92, C 79-85, D 72-78, E 65-71, FX 64 a menej<br>aktivita na hodine<br>predmet končí hodnotením, t.j. povolený je 1 opravný test                                                                                                                                                                                                            |                                      |
| <b>Learning outcomes:</b><br>Osvojenie si a rozvíjanie užitočných techník akademického písomného ako aj ústneho prejavu so zameraním na rozvoj jazykových kompetencií študenta, na upevňovanie a rozvíjanie všetkých jazykových zručností na stredne pokročilej až pokročilej úrovni ovládania jazyka (B2/C1 podľa Spoločného európskeho referenčného rámca pre jazyky). Predmet kladie dôraz na používanie akademickej angličtiny v akademickom prostredí.                                                                    |                                      |
| <b>Brief outline of the course:</b><br>Akademická angličtina a jej charakteristiky<br>Čítanie odborných článkov, analýza, parafrázovanie<br>Spájacie slová v akademickom písaní<br>Formálna a neformálna angličtina a ich črty<br>Vyjadrovanie príčiny, následku v akademickom jazyku<br>Čítanie odbornej publikácie, analýza, parafrázovanie<br>Slovo tvorba v anglickom jazyku- predpony a prípony<br>Ako prezentovať v angličtine<br>Parafrázovanie a definovanie<br>Ako písať abstrakt<br>Slovosled v akademickom diškurze |                                      |
| <b>Recommended literature:</b><br>Seal B.: Academic Encounters, CUP, 2002<br>T. Armer :Cambridge English for Scientists, CUP 2011<br>M. McCarthy M., O'Dell F. - Academic Vocabulary in Use, CUP 2008<br>Zemach, D.E, Rumisek, L.A: Academic Writing, Macmillan 2005                                                                                                                                                                                                                                                           |                                      |

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| Olsen, A. : Active Vocabulary, Pearson, 2013<br>www.bbclearningenglish.com<br>Cambridge Academic Content Dictionary, CUP, 2009 |       |      |      |      |       |
| <b>Course language:</b>                                                                                                        |       |      |      |      |       |
| <b>Notes:</b>                                                                                                                  |       |      |      |      |       |
| <b>Course assessment</b><br>Total number of assessed students: 292                                                             |       |      |      |      |       |
| A                                                                                                                              | B     | C    | D    | E    | FX    |
| 29.11                                                                                                                          | 22.26 | 16.1 | 11.3 | 8.22 | 13.01 |
| <b>Provides:</b> PaedDr. Gabriela Bednáriková                                                                                  |       |      |      |      |       |
| <b>Date of last modification:</b> 06.02.2014                                                                                   |       |      |      |      |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.         |       |      |      |      |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                          |     |     |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                          |     |     |      |
| <b>Course ID:</b> KPE/<br>ALP/06                                                                                                                                                                        |       | <b>Course name:</b> Alternative Pedagogy |     |     |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                          |     |     |      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                          |     |     |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |       |                                          |     |     |      |
| <b>Course level:</b> II.                                                                                                                                                                                |       |                                          |     |     |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                          |     |     |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                          |     |     |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                          |     |     |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                          |     |     |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                          |     |     |      |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                          |     |     |      |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                          |     |     |      |
| <b>Course assessment</b><br>Total number of assessed students: 54                                                                                                                                       |       |                                          |     |     |      |
| A                                                                                                                                                                                                       | B     | C                                        | D   | E   | FX   |
| 85.19                                                                                                                                                                                                   | 12.96 | 0.0                                      | 0.0 | 0.0 | 1.85 |
| <b>Provides:</b> Mgr. Ján Juščák, PhD.                                                                                                                                                                  |       |                                          |     |     |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |       |                                          |     |     |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |       |                                          |     |     |      |

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |      |                                                          |     |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |      |                                                          |     |      |     |
| <b>Course ID:</b> KFaDF/AFS/05                                                                                                                                                                          |      | <b>Course name:</b> Antique Philosophy and Present Times |     |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |      |                                                          |     |      |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |      |                                                          |     |      |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |      |                                                          |     |      |     |
| <b>Course level:</b> I., II.                                                                                                                                                                            |      |                                                          |     |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |      |                                                          |     |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |      |                                                          |     |      |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |      |                                                          |     |      |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |      |                                                          |     |      |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |      |                                                          |     |      |     |
| <b>Course language:</b>                                                                                                                                                                                 |      |                                                          |     |      |     |
| <b>Notes:</b>                                                                                                                                                                                           |      |                                                          |     |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 30                                                                                                                                       |      |                                                          |     |      |     |
| A                                                                                                                                                                                                       | B    | C                                                        | D   | E    | FX  |
| 83.33                                                                                                                                                                                                   | 6.67 | 6.67                                                     | 0.0 | 3.33 | 0.0 |
| <b>Provides:</b> doc. PhDr. Pavol Tholt, PhD., mim.prof., Doc. PhDr. Peter Nezník, CSc.                                                                                                                 |      |                                                          |     |      |     |
| <b>Date of last modification:</b> 26.01.2014                                                                                                                                                            |      |                                                          |     |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |      |                                                          |     |      |     |

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |     |                                                          |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |     |                                                          |     |     |     |
| <b>Course ID:</b> ÚCHV/<br>ZEM1/04                                                                                                                                                                      |     | <b>Course name:</b> Basic experimental apparatus methods |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 3 <b>Per study period:</b> 42<br><b>Course method:</b> present |     |                                                          |     |     |     |
| <b>Number of credits:</b> 4                                                                                                                                                                             |     |                                                          |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 1., 3.                                                                                                                                             |     |                                                          |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                |     |                                                          |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |     |                                                          |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |     |                                                          |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |     |                                                          |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |     |                                                          |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |     |                                                          |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                 |     |                                                          |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                           |     |                                                          |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 2                                                                                                                                        |     |                                                          |     |     |     |
| A                                                                                                                                                                                                       | B   | C                                                        | D   | E   | FX  |
| 100.0                                                                                                                                                                                                   | 0.0 | 0.0                                                      | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> prof. RNDr. Katarína Györyová, DrSc., prof. RNDr. Juraj Černák, CSc., doc. RNDr. Mária Reháková, CSc., doc. RNDr. Vladimír Zelenák, PhD., doc. RNDr. Ivan Potočný, PhD.                |     |                                                          |     |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                            |     |                                                          |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |     |                                                          |     |     |     |

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                               |      |                                      |      |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                      |      |     |     |
| <b>Course ID:</b> ÚCHV/<br>ZTOX/04                                                                                                                                                                                                                                                                                                                                                                                                  |      | <b>Course name:</b> Basic Toxicology |      |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                          |      |                                      |      |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                      |      |     |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                             |      |                                      |      |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                      |      |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                      |      |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                            |      |                                      |      |     |     |
| <b>Learning outcomes:</b><br>Goal of the course is to provide the students with a knowledge of types of toxic substances and their metabolism, safe and handling of toxic substances.                                                                                                                                                                                                                                               |      |                                      |      |     |     |
| <b>Brief outline of the course:</b><br>Historical aspects, types of toxic substances, types of exposure, dose-response relationship. Disposition of toxic compounds (absorption, distribution, excretion of toxic compounds). Metabolism of toxic compounds. Drugs as toxic substances, food additives and contaminants, environmental pollutants. Statement of chemistry laboratory policy. Safe and handling of toxic substances. |      |                                      |      |     |     |
| <b>Recommended literature:</b><br>G. F. Fuhrman: Allgemeine Toxikologie fuer Chemiker, Teubner Verlag, Stuttgart 1984.<br>V. E. Forbes, T. L. Forbe: Ecotoxicology in Theory and Practice, Chapman&Hall, London 1994.<br>J. A. Timbrell: Introduction to Toxicology, Taylor&Francis, London 1994.                                                                                                                                   |      |                                      |      |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                      |      |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                      |      |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 250                                                                                                                                                                                                                                                                                                                                                                  |      |                                      |      |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                   | B    | C                                    | D    | E   | FX  |
| 21.2                                                                                                                                                                                                                                                                                                                                                                                                                                | 26.8 | 24.0                                 | 18.0 | 8.8 | 1.2 |
| <b>Provides:</b> prof. RNDr. Katarína Györyová, DrSc.                                                                                                                                                                                                                                                                                                                                                                               |      |                                      |      |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                                        |      |                                      |      |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                 |      |                                      |      |     |     |

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                   |      |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                   |      |      |     |
| <b>Course ID:</b> ÚCHV/<br>BTC/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | <b>Course name:</b> Biotechnology |      |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 3 <b>Per study period:</b> 42<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                   |      |      |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                   |      |      |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                   |      |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                   |      |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                   |      |      |     |
| <b>Conditions for course completion:</b><br>test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                   |      |      |     |
| <b>Learning outcomes:</b><br>Students obtained the knowledge of basic biotechnological processes and their applications in agriculture, industry, food production and medicine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                   |      |      |     |
| <b>Brief outline of the course:</b><br>Classification of biotechnology, disciplines and subjects which are involved with biotechnology. The fermentation processes, types of bioreactors, impellers, principles of microbial growth, media and substrates for fermentation processes. The bioremediation, production and application of biogas, in-vessel composting. Micro-organisms used to preparation amino acids, their fermentation preparation, isolation and possible uses. The methods of classical Plant Biotechnology. Ethanol fermentation, spirits, production of wine and beer. The biological filters, nutrient removal and the membrane bioreactors. Antibiotics. |       |                                   |      |      |     |
| <b>Recommended literature:</b><br>E.M.T. El-Mansi et al. ,Fermentation microbiology ang biotechnology,second edition, 2007<br>Y.H. Hui, Food biochemistry & food processing,Blackwell Publishing 2006<br>J.E. Smith, Biotechnology, Cambridge university press 2009                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                   |      |      |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                   |      |      |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                   |      |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                   |      |      |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B     | C                                 | D    | E    | FX  |
| 42.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 23.81 | 19.05                             | 8.33 | 5.95 | 0.0 |
| <b>Provides:</b> RNDr. Danica Sabolová, PhD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                   |      |      |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                   |      |      |     |

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.  
Volodymyr Starosta, DrSc.

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                      |      |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                      |      |      |      |
| <b>Course ID:</b> KPE/MT/09                                                                                                                                                                             |       | <b>Course name:</b> Class Management |      |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                      |      |      |      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                      |      |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |       |                                      |      |      |      |
| <b>Course level:</b> II.                                                                                                                                                                                |       |                                      |      |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                      |      |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                      |      |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                      |      |      |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                      |      |      |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                      |      |      |      |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                      |      |      |      |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                      |      |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 351                                                                                                                                      |       |                                      |      |      |      |
| A                                                                                                                                                                                                       | B     | C                                    | D    | E    | FX   |
| 58.4                                                                                                                                                                                                    | 30.48 | 8.55                                 | 1.14 | 0.28 | 1.14 |
| <b>Provides:</b> PaedDr. Renáta Orosová, PhD.                                                                                                                                                           |       |                                      |      |      |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |       |                                      |      |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |       |                                      |      |      |      |

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |                                                   |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |                                                   |     |
| <b>Course ID:</b><br>KPPaPZ/KK/07                                                                                                                                                                       | <b>Course name:</b> Communication and Cooperation |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |                                                   |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |                                                   |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                 |                                                   |     |
| <b>Course level:</b> II.                                                                                                                                                                                |                                                   |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |                                                   |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |                                                   |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |                                                   |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |                                                   |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |                                                   |     |
| <b>Course language:</b>                                                                                                                                                                                 |                                                   |     |
| <b>Notes:</b>                                                                                                                                                                                           |                                                   |     |
| <b>Course assessment</b><br>Total number of assessed students: 281                                                                                                                                      |                                                   |     |
| abs                                                                                                                                                                                                     | n                                                 | z   |
| 98.22                                                                                                                                                                                                   | 1.78                                              | 0.0 |
| <b>Provides:</b> Mgr. Ondrej Kalina, PhD.                                                                                                                                                               |                                                   |     |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |                                                   |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |                                                   |     |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------|------|-------|------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                                                     |      |       |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                                                     |      |       |      |
| <b>Course ID:</b> KGER/<br>NJKK/07                                                                                                                                                                      |       | <b>Course name:</b> Communication Competence in the German Language |      |       |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                                                     |      |       |      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                                                     |      |       |      |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                    |       |                                                                     |      |       |      |
| <b>Course level:</b> I., II.                                                                                                                                                                            |       |                                                                     |      |       |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                                                     |      |       |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                                                     |      |       |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                                                     |      |       |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                                                     |      |       |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                                                     |      |       |      |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                                                     |      |       |      |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                                                     |      |       |      |
| <b>Course assessment</b><br>Total number of assessed students: 42                                                                                                                                       |       |                                                                     |      |       |      |
| A                                                                                                                                                                                                       | B     | C                                                                   | D    | E     | FX   |
| 57.14                                                                                                                                                                                                   | 14.29 | 7.14                                                                | 4.76 | 14.29 | 2.38 |
| <b>Provides:</b> Mgr. Eva Černáková, PhD.                                                                                                                                                               |       |                                                                     |      |       |      |
| <b>Date of last modification:</b> 05.02.2014                                                                                                                                                            |       |                                                                     |      |       |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |       |                                                                     |      |       |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>Course ID:</b> CJP/<br>PFAJKKA/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Course name:</b> Communicative Competence in English |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> combined, present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| <b>Course level:</b> I., II., N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <b>Conditions for course completion:</b><br>ontroľný písomný test, aktivita na hodine<br>záverečný písomný test<br>stupnica hodnotenia A 93-100, B 86 - 92, C 79-85, D 72-78, E 65-71, FX menej ako 64<br>Povolené max. 2 absencie počas semestra<br>predmet končí hodnotením, možnosť jedného opravného testu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Learning outcomes:</b><br>Uplatnenie a aktívne používanie svojich teoretických vedomostí v praktických komunikačných situáciách. Zdokonalenie jazykových vedomostí a zručností študenta, rečovej, pragmatickej a vecnej kompetencie, predovšetkým zlepšujú komunikáciu, schopnosť prijímať a formulovať výpovede, efektívne vyjadrovať svoje myšlienky ako aj orientovať sa v obsahovom pláne výpovede. Precvičovanie rečových intencií kontaktných (napr. pozdravy, oslovenia, pozvanie, oslovenie), informatívnych (napr. získavanie a podávanie informácií, vyjadrenie priestorových a časových vzťahov), regulačných (napr. prosba, poďakovanie, zákaz, pochvala, súhlas, nesúhlas) a hodnotiacich (napr. vyjadrenie vlastného názoru, stanoviska, želania, emócií). Výsledkom budovania praktickej jazykovej kompetencie majú byť vedomosti a zručnosti zodpovedajúce požiadavkám a kritériám dokumentu Spoločný európsky referenčný rámec pre vyučovanie jazykov - úroveň B2. |                                                         |
| <b>Brief outline of the course:</b><br>Rodina, jej formy a problémy<br>Vyjadrovanie pocitov a dojmov<br>Dom, bývanie a budúcnosť<br>Formy a dialekty v anglickom jazyku<br>Život v meste a na vidieku<br>Kolokácie a idiomy, zaužívané slovné spojenia<br>Prázdniny a sviatky vo svete<br>Životné prostredie a ekológia<br>Výnimky zo slovosledu<br>Frázové slovesá a ich použitie<br>Charakteristiky neformálneho diškurzu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         |

**Recommended literature:**

McCarthy M., O'Dell F.: English Vocabulary in Use, 1994

Misztal M.: Thematic Vocabulary, 1998

Fictumova J., Ceccarelli J., Long T.: Angličtina, konverzace pro pokročilé, Barrister and Principal, 2008

Peters S., Gráf T.: Time to practise, Polyglot, 2007

www.bbclearningenglish.com

Jones L.: Communicative Grammar Practice, CUP, 1985

Alexander L.G.: Longman English Grammar, Longman, 1988

**Course language:****Notes:****Course assessment**

Total number of assessed students: 174

| A     | B     | C     | D    | E    | FX  |
|-------|-------|-------|------|------|-----|
| 36.78 | 22.41 | 18.39 | 9.77 | 8.05 | 4.6 |

**Provides:** PaedDr. Gabriela Bednáriková, Mgr. Silvia Marcinová, PhD.

**Date of last modification:** 06.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
| <b>Course ID:</b> CJP/<br>PFAJGA/07                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Course name:</b> Communicative Grammar in English |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> combined, present                                                                                                                                                                                                                                                                             |                                                      |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <b>Course level:</b> I., II., N                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |
| <b>Conditions for course completion:</b><br>kontrolná písomná práca,<br>záverečná písomná práca<br>stupnica hodnotenia: A 93-100, B 86-92, C 79-85, D 65-71, 64 a menej - FX<br>aktivita na hodinách, povolené 2 absencie<br>predmet je ukončený hodnotením, možnosť jedného opravného testu                                                                                                                                                                                                  |                                                      |
| <b>Learning outcomes:</b><br>Identifikovanie a odstránenie najfrekvencovanejších gramatických chýb v ústnom prejave, ako aj v písomnom styku. Rozvoj jazykových kompetencií študenta so zameraním na funkcie gramatiky anglického jazyka v každodennej interakcii, v komunikačnom akte na stredne pokročilej úrovni ovládania jazyka (B2 podľa Spoločného európskeho referenčného rámca pre jazyky).                                                                                          |                                                      |
| <b>Brief outline of the course:</b><br>Zvieratá a rastliny na zemi<br>Zločin a trest<br>Cestovanie po mori a vzduchom<br>Jedlá a reštaurácie, národná kuchyňa<br>Vzdelanie na vysokých školách<br>História a viera<br>Vybrané problémy anglickej výslovnosti, gramatiky ( nepriama reč, slovotvorba, predložkové väzby, anglická syntax, kondicionály v angličtine a slovnej zásoby príslušného zamerania<br>Vybrané funkcie praktického odborného jazyka potrebné na prácu s odborným textom |                                                      |
| <b>Recommended literature:</b><br>Misztal M.: Thematic Vocabulary, 1994<br>McCarthy, O'Dell: English Vocabulary in Use, 1994<br>Alexander L.G.: Longman English Grammar, Longman, 1988<br>Jones I. - Communicative Grammar Practice, CUP, 1992<br>Vince M.: Macmillan Grammar in Context, Macmillan, 2008<br>www.bbclearningenglish.com<br>Gráf T., Peters S.: Time to practise, Polyglot, 2007                                                                                               |                                                      |

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|---------------------------------------------------------------------------------------------------------------------|-------|------|------|------|-------|
| <b>Course language:</b>                                                                                             |       |      |      |      |       |
| <b>Notes:</b>                                                                                                       |       |      |      |      |       |
| <b>Course assessment</b>                                                                                            |       |      |      |      |       |
| Total number of assessed students: 378                                                                              |       |      |      |      |       |
| A                                                                                                                   | B     | C    | D    | E    | FX    |
| 39.42                                                                                                               | 18.25 | 17.2 | 8.73 | 5.82 | 10.58 |
| <b>Provides:</b> PaedDr. Gabriela Bednáriková                                                                       |       |      |      |      |       |
| <b>Date of last modification:</b> 06.02.2014                                                                        |       |      |      |      |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |      |      |      |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
| <b>Course ID:</b> ÚGE/MPPb/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Course name:</b> Continual pedagogical practice I |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 3t<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                      |                                                      |
| <b>Number of credits:</b> 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |
| <b>Brief outline of the course:</b><br>In the course of the three weeks, the student will take 8 observation lessons with their supervising teacher and 10 practical lessons of geography teaching. Student will take the detailed notes of their teaching and process the report on each teaching lesson, having consulted it with the supervising teachers. If possible, the student attends the meetings of the geography teachers and help the supervising teacher with other duties at school. |                                                      |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |
| <b>Course assessment</b><br>Total number of assessed students: 219                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
| abs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | n                                                    |
| 100.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0                                                  |
| <b>Provides:</b> PhDr. Silvia Kontírová, PhD., Mgr. Mária Sarková, PhD., RNDr. Stela Csachová, PhD.                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |
| <b>Course ID:</b> ÚGE/MPPc/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Course name:</b> Continual pedagogical practice II |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 4t<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                               |                                                       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                       |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |
| <b>Prerequisites:</b> ÚGE/MPPb/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                       |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |
| <b>Brief outline of the course:</b><br>The student will arrange the teaching practice II. at different school type than teaching practice I. Student will take 6 observation lessons with their supervising teacher and have 18 practical geography lessons. Student will take the detailed notes of their teaching and process the report on each teaching lesson, having consulted it with the supervising teachers. If possible, the student attends the meetings of the geography teachers and help the supervising teacher with other duties at school. |                                                       |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                       |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |
| <b>Course assessment</b><br>Total number of assessed students: 206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |
| abs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | n                                                     |
| 100.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0                                                   |
| <b>Provides:</b> RNDr. Stela Csachová, PhD., PhDr. Silvia Kontírová, PhD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                               |                                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                  |                                                        |
| <b>Course ID:</b> ÚGE/MPPd/05                                                                                                                                                                                                                       | <b>Course name:</b> Continual pedagogical practice III |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 3t<br><b>Course method:</b> present                                                      |                                                        |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                         |                                                        |
| <b>Recommended semester/trimester of the course:</b> 4.                                                                                                                                                                                             |                                                        |
| <b>Course level:</b> II.                                                                                                                                                                                                                            |                                                        |
| <b>Prerequisites:</b> ÚGE/MPPc/03 or ÚGE/MPPc/15                                                                                                                                                                                                    |                                                        |
| <b>Conditions for course completion:</b><br>Students submit the portfolio including 8 observation lessons and 30 lessons plans from Geography as a confirmation they have taken the teaching practice.                                              |                                                        |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                           |                                                        |
| <b>Brief outline of the course:</b><br>Observation lessons with a supervising teacher, consultations, preparing teaching aids, teaching geography lessons, methodological analysis, active participation at school and extra curricular activities. |                                                        |
| <b>Recommended literature:</b>                                                                                                                                                                                                                      |                                                        |
| <b>Course language:</b>                                                                                                                                                                                                                             |                                                        |
| <b>Notes:</b>                                                                                                                                                                                                                                       |                                                        |
| <b>Course assessment</b><br>Total number of assessed students: 229                                                                                                                                                                                  |                                                        |
| abs                                                                                                                                                                                                                                                 | n                                                      |
| 100.0                                                                                                                                                                                                                                               | 0.0                                                    |
| <b>Provides:</b> PhDr. Silvia Kontírová, PhD., Mgr. Mária Sarková, PhD., RNDr. Stela Csachová, PhD.                                                                                                                                                 |                                                        |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                        |                                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                 |                                                        |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                         |                                                    |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| <b>Course ID:</b> ÚCHV/MPPb/03                                                                                                                                                                                                                                                                                                                                                                                | <b>Course name:</b> Continual pedagogic practice I |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 3t<br><b>Course method:</b> present                                                                                                                                                                                                                |                                                    |
| <b>Number of credits:</b> 1                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                       |                                                    |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |
| <b>Prerequisites:</b> ÚCHV/SPC1a/03                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                    |
| <b>Learning outcomes:</b><br>The aim of this subject is to apply theoretical preparation from chemistry didactics by the creation of lesson plans for teaching                                                                                                                                                                                                                                                |                                                    |
| <b>Brief outline of the course:</b><br>The practice runs 3 week and is realizes only in one school in Košice from both certificated subjects. Content of practise is obligate visitation at 8 lessons and unlearns minimal 10 lessons from each certificated subject. A part of practice is methodical and professional analysis unlearn lesson and active implication in out of class and school activities. |                                                    |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                |                                                    |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |
| <b>Course assessment</b><br>Total number of assessed students: 158                                                                                                                                                                                                                                                                                                                                            |                                                    |
| abs                                                                                                                                                                                                                                                                                                                                                                                                           | n                                                  |
| 100.0                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0                                                |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                                                                                                                                                                                                                                                                                                                     |                                                    |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                           |                                                    |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                         |                                                     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                            |                                                     |
| <b>Course ID:</b> ÚCHV/MPPc/04                                                                                                                                                                                                                                                                                                                                                                                | <b>Course name:</b> Continual pedagogic practice II |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 4t<br><b>Course method:</b> present                                                                                                                                                                                                                |                                                     |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                       |                                                     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |
| <b>Prerequisites:</b> ÚCHV/MPPb/03 and ÚCHV/DCHa/03                                                                                                                                                                                                                                                                                                                                                           |                                                     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                     |
| <b>Learning outcomes:</b><br>The aim of this subject is to apply theoretical preparation from chemistry didactics by the creation of lesson plans for teaching                                                                                                                                                                                                                                                |                                                     |
| <b>Brief outline of the course:</b><br>The practice runs 4 week and is realizes only in one school in Košice from both certificated subjects. Content of practise is obligate visitation at 8 lessons and unlearns minimal 18 lessons from each certificated subject. A part of practice is methodical and professional analysis unlearn lesson and active implication in out of class and school activities. |                                                     |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                |                                                     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |
| <b>Course assessment</b><br>Total number of assessed students: 138                                                                                                                                                                                                                                                                                                                                            |                                                     |
| abs                                                                                                                                                                                                                                                                                                                                                                                                           | n                                                   |
| 100.0                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0                                                 |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová, RNDr. Ivana Sotáková                                                                                                                                                                                                                                                                                                               |                                                     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                  |                                                     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                           |                                                     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                         |                                                      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
| <b>Course ID:</b> ÚCHV/MPPd/05                                                                                                                                                                                                                                                                                                                                                                                | <b>Course name:</b> Continual pedagogic practise III |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 3t<br><b>Course method:</b> present                                                                                                                                                                                                                |                                                      |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |
| <b>Recommended semester/trimester of the course:</b> 4.                                                                                                                                                                                                                                                                                                                                                       |                                                      |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |
| <b>Prerequisites:</b> (ÚCHV/MPPc/04 or ÚCHV/MPPc/15) and ÚCHV/DCH2/15                                                                                                                                                                                                                                                                                                                                         |                                                      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                      |
| <b>Learning outcomes:</b><br>The aim of this subject is to apply theoretical preparation from chemistry didactics by the creation of lesson plans for teaching                                                                                                                                                                                                                                                |                                                      |
| <b>Brief outline of the course:</b><br>The practice runs 3 week and is realizes only in one school in Košice from both certificated subjects. Content of practise is obligate visitation at 4 lessons and unlearns minimal 15 lessons from each certificated subject. A part of practice is methodical and professional analysis unlearn lesson and active implication in out of class and school activities. |                                                      |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |
| <b>Course assessment</b><br>Total number of assessed students: 150                                                                                                                                                                                                                                                                                                                                            |                                                      |
| abs                                                                                                                                                                                                                                                                                                                                                                                                           | n                                                    |
| 100.0                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0                                                  |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová, RNDr. Ivana Sotáková                                                                                                                                                                                                                                                                                                               |                                                      |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                           |                                                      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| <b>Course ID:</b> ÚCHV/<br>KC/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Course name:</b> Cosmetic chemistry |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Conditions for course completion:</b><br>Seminar report on the selected subjects of cosmetic chemistry and its oral presentation connected with discussion. Terminal examination by oral form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Learning outcomes:</b><br>The basic chemical ingredients in cosmetic products, their isolation from natural sources. The construction of some interesting groups of the organic structures and their application in cosmetic industry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| <b>Brief outline of the course:</b><br>Skin and its components. The chemistry of lipids. Lipids, their classification (triacylglycerols, glycerophospholipids and sphingophospholipids), liposomes as transport systems. Fatty acids and alcohols, natural and synthetic waxes. Surfactants, their classification. Antioxidants. Dyes, their classification, organic and inorganic dyes, natural and synthetic. Biological active compounds (amino acids, peptides, proteins hydroxy acids, vitamins, polysaccharides) as the cosmetic ingredients. The chemistry of fragrances. Compounds derived from shikimic acid and mevalonic acid, their biosynthesis, Synthetic fragrances and their construction. |                                        |
| <b>Recommended literature:</b><br>1. S. V. Bhat, B. A. Nagasampagi, M. Sivakumar: Chemistry of Natural Products, Springer Narosa 2005, ISBN 81-7319-481-5.<br>2. G. Ohloff: Scent and Fragrances, Springer-Verlag Berlin Heidelberg 1994, ISBN 3-540-57108-6.<br>3. D. H. Pybus, CH. S. Sell: The chemistry of fragrances, Royal Society of Chemistry 1999, ISBN 0-8540-528-7.<br>4. J. McMurry: Organic chemistry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Edition, ISBN 0534389996.                                                                                                                                                                                                          |                                        |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |

|                                                                                                                     |       |      |      |     |     |
|---------------------------------------------------------------------------------------------------------------------|-------|------|------|-----|-----|
| <b>Course assessment</b>                                                                                            |       |      |      |     |     |
| Total number of assessed students: 86                                                                               |       |      |      |     |     |
| A                                                                                                                   | B     | C    | D    | E   | FX  |
| 79.07                                                                                                               | 15.12 | 4.65 | 1.16 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Miroslava Martinková, PhD.                                                              |       |      |      |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                        |       |      |      |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |      |      |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                           |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                           |     |     |     |
| <b>Course ID:</b> KAE/<br>KAp/03                                                                                                                                                                        |       | <b>Course name:</b> Cultural Anthropology |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                           |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                           |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |       |                                           |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                |       |                                           |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                           |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                           |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                           |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                           |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                           |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                           |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                           |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 126                                                                                                                                      |       |                                           |     |     |     |
| A                                                                                                                                                                                                       | B     | C                                         | D   | E   | FX  |
| 84.92                                                                                                                                                                                                   | 14.29 | 0.79                                      | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> Mgr. Adriana Jesenková, PhD.                                                                                                                                                           |       |                                           |     |     |     |
| <b>Date of last modification:</b> 29.01.2014                                                                                                                                                            |       |                                           |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |       |                                           |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Course ID:</b> ÚGE/<br>KUL/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Course name:</b> Cultural geography |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Conditions for course completion:</b><br>- presentation of paper on the assignment theme, concluding test – minimum of success rate is 60 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Learning outcomes:</b><br>- deeping and gaining a new knowlidges): - about research object and subject of cultural geography and incorporation of cultural geography in the context of human geographical events,<br>- about cultural development on the Earth,<br>- about development and basic feature of civilisation),<br>- about globalization in culture and her trends, etc.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Brief outline of the course:</b><br>1. Cultural geography, object and subject of resarch and incorporation of cultural geography in the context of human geographically events<br>2. Cultural geography, object and subject of resarch and incorporation of cultural geography in the context of human geographically events<br>3. Helping events of cultural geography - history, archaeology, ethnology, ... etc.<br>4. Cultural development of mankind – its manifestations, artefacts and geographically differentiation<br>5. Fire paces of world civilization, its origin and genesis. Fundamental characteristics and manifestations, contribution for the present<br>6. Ethnic, nationality and religion differentiation of world population<br>7. Cultural landscape, its attributes, components and elements<br>8. Cultural manifestations mankind in the rural and urban landscape – agriculture, ..., fine art, architecture (styles and its geographical distribution<br>9. Cultural regions of world - in opinion of various conceptions and authors<br>10. Cultural regions of Slovakia<br>11. Educational excursion on the selected theme – for example Jews in the Slovakia – exposition in Prešov, Jews in Košice, etc |                                        |
| <b>Recommended literature:</b><br>ANDĚL. J. (1998): Kulturní geografie. UJEP Ústí nad Labem, 146 s.<br>BARŠA, P. Politická teorie multikulturalismu, CDK, 1999.<br>BEŇUŠKOVÁ, Z. et al. Tradičná kultúra regiónov Slovenska.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |

BERGMAN, E. F. (1995): Human Geography. Cultures, Connections and Landscapes. Prentice Hall, Engewood Cliffs.

BONNEMAISON, J. (2005): Culture and Space. I. B. Tauris.

COSGROVE, D., JACKSON, P. (1987): New direction in cultural geography. Area, 19, 95-101.

DOSTÁL, P. (1999): Ethnicity, mobilization and territory: an overview of recent experiences. Acta UC, Geographica, XXXIV, 1, s. 45-58. (KgaRR č. 2937)

HEŘMANOVÁ, E., CHROMÝ, P. a kol. (2009). Kulturní regiony a geografie kultury. 1. vyd. Praha: ASPI, a. s., 292-301. ISBN 978-80-7357-339-3.

KRUPA, V., GENZOR, J. (1996): Jazyky sveta v priestore a čase. Veda, SAV Bratislava, 356 s. ISBN 80-224-0459-4, s. 27-43.

MACDONALD, F., MASON, A. (2009): Kultúra Ľudstva. Ottova encyklopédia. Ottovo nakladateľství, s. r. o. Praha, 256 s. ISBN 978-80-7360-469-1

MIKLÓŠ, L. et al. 1996 Prírodné podmienky a kultúra využitia krajiny, Kult.-historické krajinné-ekologické podmienky rozvoja B. Štiavnice, Sv. Jura a Lipt. Tepličky, B. Štiavnica

MURRAY, W. E. (2006): Geographies of Globalization. Routledge Contemporary Human Geography. Routledge Taylor & Francis Group London and New York, 32 s.

NEUE KULTURGEOGRAPHIE. Petermanns Geographische Mitteilungen, 2/2003. Themenheft PGM. ISBN 3-623-08102-7

ROGERS, A. (1994): Lidé a kultúry. Nakladatelský dům Praha, 256 s.

**Course language:**

Slovak

**Notes:**

**Course assessment**

Total number of assessed students: 344

| A     | B     | C    | D    | E   | FX   |
|-------|-------|------|------|-----|------|
| 54.94 | 32.85 | 7.56 | 4.07 | 0.0 | 0.58 |

**Provides:** RNDr. Katarína Kozáková, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |                                                                      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |                                                                      |
| <b>Course ID:</b><br>KPPaPZ/RSEI/03                                                                                                                                                                     | <b>Course name:</b> Development of Social and Emotional Intelligence |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |                                                                      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |                                                                      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |                                                                      |
| <b>Course level:</b> II.                                                                                                                                                                                |                                                                      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |                                                                      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |                                                                      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |                                                                      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |                                                                      |
| <b>Recommended literature:</b>                                                                                                                                                                          |                                                                      |
| <b>Course language:</b>                                                                                                                                                                                 |                                                                      |
| <b>Notes:</b>                                                                                                                                                                                           |                                                                      |
| <b>Course assessment</b><br>Total number of assessed students: 319                                                                                                                                      |                                                                      |
| abs                                                                                                                                                                                                     | n                                                                    |
| 97.18                                                                                                                                                                                                   | 2.82                                                                 |
| <b>Provides:</b> Mgr. Lucia Hricová                                                                                                                                                                     |                                                                      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |                                                                      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |                                                                      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                        |      |                                            |      |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                           |      |                                            |      |      |      |
| <b>Course ID:</b> ÚGE/<br>DIG/08                                                                                                                                                                                                                                                                                                                             |      | <b>Course name:</b> Didactics of geography |      |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                   |      |                                            |      |      |      |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                  |      |                                            |      |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                      |      |                                            |      |      |      |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                     |      |                                            |      |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                        |      |                                            |      |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                     |      |                                            |      |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                    |      |                                            |      |      |      |
| <b>Brief outline of the course:</b><br>Basic terminology, understanding the relations between geographical phenomena, the competence to work with maps, the competence to apply knowledge in the landscape. Modern concept of geography, material tools in geography teaching, organisational forms of geography teaching, creativity in geography teaching. |      |                                            |      |      |      |
| <b>Recommended literature:</b><br>J. Machyček, H. Fričová, M. Papík: Základy didaktiky geografie. SPN Bratislava, 1985                                                                                                                                                                                                                                       |      |                                            |      |      |      |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                      |      |                                            |      |      |      |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                |      |                                            |      |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 314                                                                                                                                                                                                                                                                                           |      |                                            |      |      |      |
| A                                                                                                                                                                                                                                                                                                                                                            | B    | C                                          | D    | E    | FX   |
| 44.27                                                                                                                                                                                                                                                                                                                                                        | 24.2 | 15.61                                      | 9.87 | 5.73 | 0.32 |
| <b>Provides:</b> RNDr. Stela Csachová, PhD.                                                                                                                                                                                                                                                                                                                  |      |                                            |      |      |      |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                                                                                 |      |                                            |      |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                          |      |                                            |      |      |      |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                       |
| <b>Course ID:</b> ÚCHV/<br>DPP1/14                                                                                                                                                 | <b>Course name:</b> Diploma Project I |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                       |
| <b>Number of credits:</b> 1                                                                                                                                                        |                                       |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                            |                                       |
| <b>Course level:</b> II.                                                                                                                                                           |                                       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                       |
| <b>Course language:</b>                                                                                                                                                            |                                       |
| <b>Notes:</b>                                                                                                                                                                      |                                       |
| <b>Course assessment</b><br>Total number of assessed students: 12                                                                                                                  |                                       |
| abs                                                                                                                                                                                | n                                     |
| 100.0                                                                                                                                                                              | 0.0                                   |
| <b>Provides:</b>                                                                                                                                                                   |                                       |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |                                       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                       |
| <b>Course ID:</b> ÚGE/<br>DPP1/14                                                                                                                                                  | <b>Course name:</b> Diploma Project I |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                       |
| <b>Number of credits:</b> 1                                                                                                                                                        |                                       |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                            |                                       |
| <b>Course level:</b> II.                                                                                                                                                           |                                       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                       |
| <b>Course language:</b>                                                                                                                                                            |                                       |
| <b>Notes:</b>                                                                                                                                                                      |                                       |
| <b>Course assessment</b><br>Total number of assessed students: 8                                                                                                                   |                                       |
| abs                                                                                                                                                                                | n                                     |
| 100.0                                                                                                                                                                              | 0.0                                   |
| <b>Provides:</b>                                                                                                                                                                   |                                       |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |                                       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                        |
| <b>Course ID:</b> ÚCHV/<br>DPP2/14                                                                                                                                                 | <b>Course name:</b> Diploma Project II |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                        |
| <b>Number of credits:</b> 2                                                                                                                                                        |                                        |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                            |                                        |
| <b>Course level:</b> II.                                                                                                                                                           |                                        |
| <b>Prerequisites:</b>                                                                                                                                                              |                                        |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                        |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                        |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                        |
| <b>Recommended literature:</b>                                                                                                                                                     |                                        |
| <b>Course language:</b>                                                                                                                                                            |                                        |
| <b>Notes:</b>                                                                                                                                                                      |                                        |
| <b>Course assessment</b><br>Total number of assessed students: 12                                                                                                                  |                                        |
| abs                                                                                                                                                                                | n                                      |
| 100.0                                                                                                                                                                              | 0.0                                    |
| <b>Provides:</b> doc. Ing. Viera Vojteková, PhD.                                                                                                                                   |                                        |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                        |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Course ID:</b> ÚGE/<br>DPP2/14                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Course name:</b> Diploma Project II |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| <b>Brief outline of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |
| <b>Course assessment</b><br>Total number of assessed students: 9                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| abs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | n                                      |
| 100.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0                                    |
| <b>Provides:</b> RNDr. Dušan Barabas, CSc., Ing. Ján Bóna, Ing. Katarína Bónová, PhD., RNDr. Stela Csachová, PhD., Mgr. Michal Gallay, PhD., prof. Mgr. Jaroslav Hofierka, PhD., doc. RNDr. Zdenko Hochmuth, CSc., RNDr. Ján Kaňuk, PhD., prof. RNDr. Ján Košťálik, DrSc., RNDr. Katarína Kozáková, PhD., Mgr. Marián Kulla, PhD., RNDr. Janetta Nestorová-Dická, PhD., Mgr. Ladislav Novotný, PhD., RNDr. Alena Gessert, PhD., prof. Ing. Vladimír Sedlák, PhD., prof. RNDr. Peter Spišiak, CSc. |                                        |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                                                                               |                                        |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                         |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                         |
| <b>Course ID:</b> ÚGE/<br>DPP3/14                                                                                                                                                  | <b>Course name:</b> Diploma Project III |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                         |
| <b>Number of credits:</b> 2                                                                                                                                                        |                                         |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                            |                                         |
| <b>Course level:</b> II.                                                                                                                                                           |                                         |
| <b>Prerequisites:</b>                                                                                                                                                              |                                         |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                         |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                         |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                         |
| <b>Recommended literature:</b>                                                                                                                                                     |                                         |
| <b>Course language:</b>                                                                                                                                                            |                                         |
| <b>Notes:</b>                                                                                                                                                                      |                                         |
| <b>Course assessment</b><br>Total number of assessed students: 15                                                                                                                  |                                         |
| abs                                                                                                                                                                                | n                                       |
| 100.0                                                                                                                                                                              | 0.0                                     |
| <b>Provides:</b>                                                                                                                                                                   |                                         |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |                                         |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                         |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                         |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                         |
| <b>Course ID:</b> ÚCHV/<br>DPP3/14                                                                                                                                                 | <b>Course name:</b> Diploma Project III |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                         |
| <b>Number of credits:</b> 2                                                                                                                                                        |                                         |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                            |                                         |
| <b>Course level:</b> II.                                                                                                                                                           |                                         |
| <b>Prerequisites:</b>                                                                                                                                                              |                                         |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                         |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                         |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                         |
| <b>Recommended literature:</b>                                                                                                                                                     |                                         |
| <b>Course language:</b>                                                                                                                                                            |                                         |
| <b>Notes:</b>                                                                                                                                                                      |                                         |
| <b>Course assessment</b><br>Total number of assessed students: 15                                                                                                                  |                                         |
| abs                                                                                                                                                                                | n                                       |
| 100.0                                                                                                                                                                              | 0.0                                     |
| <b>Provides:</b> doc. RNDr. Ivan Potočný, PhD., doc. Ing. Viera Vojteková, PhD.                                                                                                    |                                         |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |                                         |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                         |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |
| <b>Course ID:</b> ÚGE/<br>DSEI/05                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course name:</b> Diploma seminar I |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                               |                                       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
| <b>Conditions for course completion:</b><br>Verification of acquired basic methodological and formal procedures of the final thesis creation by presentation (70% of rating) and written examination (30%). To obtain A grade, weighted average of the both parts of examination must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtain less than 50 % from any of both parts of examination. |                                       |
| <b>Learning outcomes:</b><br>Acquired knowledge of demands for diploma thesis as well as of theoretical, methodological and formal scientific procedures of diploma thesis creation.                                                                                                                                                                                                                                                                                                  |                                       |
| <b>Brief outline of the course:</b><br>The content and form of selected parts of thesis writing (abstract, introduction, conclusion, etc.) Ethics and culture of writing diploma thesis, citations and references, types of sources (printed, electronic, etc.). Formal aspects of the thesis. Linguistic adjustment (terminology, stylistics, syntax, grammar, typography). Rules of presentation of the thesis. Presentation of current results and state of diploma thesis.        |                                       |
| <b>Recommended literature:</b><br>HOVORKA, D., KOMÁREK, K., CHRAPAN, J. 2011: Ako písať a komunikovať. Martin (Vydavateľstvo Osveta), 247 s.<br>KATUŠČÁK, D. 2008: Ako písať záverečné a kvalifikačné práce. Nitra (Enigma), 162 s.<br>ÚTVAR REKTORA UPJŠ (2011): Smernica č. 1/2011, Dostupné na internete:<br>< <a href="http://www.upjs.sk/public/media/2438/smernica-1-2011.pdf">http://www.upjs.sk/public/media/2438/smernica-1-2011.pdf</a> >, 25 s.                            |                                       |
| <b>Course language:</b><br>Slovak                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |

|                                                                                                                     |      |      |      |      |     |
|---------------------------------------------------------------------------------------------------------------------|------|------|------|------|-----|
| <b>Course assessment</b>                                                                                            |      |      |      |      |     |
| Total number of assessed students: 191                                                                              |      |      |      |      |     |
| A                                                                                                                   | B    | C    | D    | E    | FX  |
| 86.39                                                                                                               | 8.38 | 3.66 | 1.05 | 0.52 | 0.0 |
| <b>Provides:</b> Mgr. Ladislav Novotný, PhD., prof. Mgr. Jaroslav Hofierka, PhD.                                    |      |      |      |      |     |
| <b>Date of last modification:</b> 11.02.2014                                                                        |      |      |      |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |      |      |      |      |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                        |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                        |     |     |     |
| <b>Course ID:</b> ÚGE/DSEII/05                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | <b>Course name:</b> Diploma seminar II |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                          |     |                                        |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                        |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 4.                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                        |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                        |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                        |     |     |     |
| <b>Conditions for course completion:</b><br>Verification of acquired methodological and formal procedures of the creation of diploma thesis by the presentation of current thesis creation by presentation of own diploma thesis (100% of rating). To obtain A grade, the rating of student's presentation must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtain rating less than 50 %. |     |                                        |     |     |     |
| <b>Learning outcomes:</b><br>Acquired skills to apply theoretical, methodological and formal scientific procedures of diploma thesis creation.                                                                                                                                                                                                                                                                                                                                   |     |                                        |     |     |     |
| <b>Brief outline of the course:</b><br>The seminary is focused to the topics of individual diploma thesis. Students present current state of their thesis, its content and its particular parts. Each diploma thesis is discussed at scientific level.                                                                                                                                                                                                                           |     |                                        |     |     |     |
| <b>Recommended literature:</b><br>HOVORKA, D., KOMÁREK, K., CHRAPAN, J. 2011: Ako písať a komunikovať. Martin (Vydavateľstvo Osveta), 247 s.<br>KATUŠČÁK, D. 2008: Ako písať záverečné a kvalifikačné práce. Nitra (Enigma), 162 s.<br>ÚTVAR REKTORA UPJŠ (2011): Smernica č. 1/2011, Dostupné na internete:<br>< <a href="http://www.upjs.sk/public/media/2438/smernica-1-2011.pdf">http://www.upjs.sk/public/media/2438/smernica-1-2011.pdf</a> >, 25 s.                       |     |                                        |     |     |     |
| <b>Course language:</b><br>Slovak                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                                        |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                        |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 100                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                        |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B   | C                                      | D   | E   | FX  |
| 83.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.0 | 7.0                                    | 0.0 | 1.0 | 2.0 |
| <b>Provides:</b> Mgr. Ladislav Novotný, PhD., prof. Mgr. Jaroslav Hofierka, PhD.                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                        |     |     |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                        |     |     |     |

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.  
Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|-------|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |       |                                                    |       |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |       |                                                    |       |     |     |
| <b>Course ID:</b> ÚGE/<br>DPOU/14                                                                                                                                                  |       | <b>Course name:</b> Diploma Thesis and its Defence |       |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |       |                                                    |       |     |     |
| <b>Number of credits:</b> 15                                                                                                                                                       |       |                                                    |       |     |     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |       |                                                    |       |     |     |
| <b>Course level:</b> II.                                                                                                                                                           |       |                                                    |       |     |     |
| <b>Prerequisites:</b>                                                                                                                                                              |       |                                                    |       |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                           |       |                                                    |       |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                          |       |                                                    |       |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                |       |                                                    |       |     |     |
| <b>Recommended literature:</b>                                                                                                                                                     |       |                                                    |       |     |     |
| <b>Course language:</b>                                                                                                                                                            |       |                                                    |       |     |     |
| <b>Notes:</b>                                                                                                                                                                      |       |                                                    |       |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 13                                                                                                                  |       |                                                    |       |     |     |
| A                                                                                                                                                                                  | B     | C                                                  | D     | E   | FX  |
| 23.08                                                                                                                                                                              | 38.46 | 7.69                                               | 30.77 | 0.0 | 0.0 |
| <b>Provides:</b>                                                                                                                                                                   |       |                                                    |       |     |     |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |       |                                                    |       |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |       |                                                    |       |     |     |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |       |                                                    |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |       |                                                    |     |     |     |
| <b>Course ID:</b> ÚCHV/DPOU/14                                                                                                                                                     |       | <b>Course name:</b> Diploma Thesis and its Defence |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |       |                                                    |     |     |     |
| <b>Number of credits:</b> 15                                                                                                                                                       |       |                                                    |     |     |     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |       |                                                    |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                           |       |                                                    |     |     |     |
| <b>Prerequisites:</b> ÚCHV/DPP3/14                                                                                                                                                 |       |                                                    |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                           |       |                                                    |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                          |       |                                                    |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                |       |                                                    |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                     |       |                                                    |     |     |     |
| <b>Course language:</b>                                                                                                                                                            |       |                                                    |     |     |     |
| <b>Notes:</b>                                                                                                                                                                      |       |                                                    |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 16                                                                                                                  |       |                                                    |     |     |     |
| A                                                                                                                                                                                  | B     | C                                                  | D   | E   | FX  |
| 62.5                                                                                                                                                                               | 31.25 | 6.25                                               | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b>                                                                                                                                                                   |       |                                                    |     |     |     |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                       |       |                                                    |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |       |                                                    |     |     |     |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |                                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |                                                        |
| <b>Course ID:</b> ÚCHV/<br>DSU1a/10                                                                                                                                                                     | <b>Course name:</b> Diplomový seminár z chémie pre XCH |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |                                                        |
| <b>Number of credits:</b> 2                                                                                                                                                                             |                                                        |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |                                                        |
| <b>Course level:</b> II.                                                                                                                                                                                |                                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                   |                                                        |
| <b>Conditions for course completion:</b>                                                                                                                                                                |                                                        |
| <b>Learning outcomes:</b>                                                                                                                                                                               |                                                        |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |                                                        |
| <b>Recommended literature:</b>                                                                                                                                                                          |                                                        |
| <b>Course language:</b>                                                                                                                                                                                 |                                                        |
| <b>Notes:</b>                                                                                                                                                                                           |                                                        |
| <b>Course assessment</b><br>Total number of assessed students: 5                                                                                                                                        |                                                        |
| abs                                                                                                                                                                                                     | n                                                      |
| 100.0                                                                                                                                                                                                   | 0.0                                                    |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                                                                                                               |                                                        |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                            |                                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |                                                        |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |                                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |                                                        |
| <b>Course ID:</b> ÚCHV/<br>DSU1b/10                                                                                                                                                                     | <b>Course name:</b> Diplomový seminár z chémie pre XCH |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |                                                        |
| <b>Number of credits:</b> 2                                                                                                                                                                             |                                                        |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                 |                                                        |
| <b>Course level:</b> II.                                                                                                                                                                                |                                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                   |                                                        |
| <b>Conditions for course completion:</b>                                                                                                                                                                |                                                        |
| <b>Learning outcomes:</b>                                                                                                                                                                               |                                                        |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |                                                        |
| <b>Recommended literature:</b>                                                                                                                                                                          |                                                        |
| <b>Course language:</b>                                                                                                                                                                                 |                                                        |
| <b>Notes:</b>                                                                                                                                                                                           |                                                        |
| <b>Course assessment</b><br>Total number of assessed students: 1                                                                                                                                        |                                                        |
| abs                                                                                                                                                                                                     | n                                                      |
| 100.0                                                                                                                                                                                                   | 0.0                                                    |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                                                                                                               |                                                        |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                            |                                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |                                                        |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                                 |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                                 |     |     |     |
| <b>Course ID:</b> KPE/APV/09                                                                                                                                                                            |       | <b>Course name:</b> Educational Action Research |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                                 |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                                 |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                 |       |                                                 |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                |       |                                                 |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                                 |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                                 |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                                 |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                                 |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                                 |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                                 |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                                 |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 29                                                                                                                                       |       |                                                 |     |     |     |
| A                                                                                                                                                                                                       | B     | C                                               | D   | E   | FX  |
| 86.21                                                                                                                                                                                                   | 13.79 | 0.0                                             | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> prof. Volodymyr Starosta, DrSc.                                                                                                                                                        |       |                                                 |     |     |     |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |       |                                                 |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |       |                                                 |     |     |     |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|------|------|------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                                   |      |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                                   |      |      |      |
| <b>Course ID:</b> KPE/<br>SL1/05                                                                                                                                                                        |       | <b>Course name:</b> Education-related Legislation |      |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                                   |      |      |      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                                   |      |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |       |                                                   |      |      |      |
| <b>Course level:</b> I., II.                                                                                                                                                                            |       |                                                   |      |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                                   |      |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                                   |      |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                                   |      |      |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                                   |      |      |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                                   |      |      |      |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                                   |      |      |      |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                                   |      |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 337                                                                                                                                      |       |                                                   |      |      |      |
| A                                                                                                                                                                                                       | B     | C                                                 | D    | E    | FX   |
| 39.17                                                                                                                                                                                                   | 31.16 | 16.91                                             | 4.15 | 1.78 | 6.82 |
| <b>Provides:</b> PaedDr. Renáta Orosová, PhD., Mgr. Zuzana Nováková, PhD.                                                                                                                               |       |                                                   |      |      |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |       |                                                   |      |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |       |                                                   |      |      |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |
| <b>Course ID:</b> ÚGE/AGS/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Course name:</b> English geographical seminar |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
| <b>Conditions for course completion:</b><br>test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
| <b>Learning outcomes:</b><br>The aim is to get students to work with the current language of geographers. The focus will primarily be on vocabulary of common geographical issues as geography of Europe, geography of the Slovak Republic, travel and tourism, project related English and some business English. Selected issues concerning the oral and written form of communication will be practised.                                                                                                                                                                                                                                           |                                                  |
| <b>Brief outline of the course:</b><br>The subject aims to cover the most relevant issues of Human geography of Europe. Students actively participate on voluntary chosen topics: political division of Europe, population and settlements, main trends in economy of Europe, geographical description of European subregions or particular model national state.                                                                                                                                                                                                                                                                                     |                                                  |
| <b>Recommended literature:</b><br>Cihová, J. a kol., 2005: English for Students of Public Administration, Regional Development, European Integration. Bratislava: Geografika. ISBN 80-969338-2-5.<br>Clark, A. N., 1998: Dictionary of Geography. Second edition. Penguin Books. ISBN 0-14-051388-4<br>Daniels, P., et al. 2005. An Introduction to Human Geography. Issues for the 21st Century. Pearson: Prentice Hall. ISBN 0-13-121766-6<br>Jordan, R.R., 1980: Academic Writing Course. London: Collins ELT. ISBN 0-00-370004-6<br>Swan, M., 2006: Practical English Usage. Oxford: OUP. ISBN 9780194420983<br>materials provided by the teacher |                                                  |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |

|                                                                                                                     |      |      |       |       |     |
|---------------------------------------------------------------------------------------------------------------------|------|------|-------|-------|-----|
| <b>Course assessment</b>                                                                                            |      |      |       |       |     |
| Total number of assessed students: 26                                                                               |      |      |       |       |     |
| A                                                                                                                   | B    | C    | D     | E     | FX  |
| 65.38                                                                                                               | 3.85 | 3.85 | 15.38 | 11.54 | 0.0 |
| <b>Provides:</b> RNDr. Stela Csachová, PhD.                                                                         |      |      |       |       |     |
| <b>Date of last modification:</b> 11.02.2014                                                                        |      |      |       |       |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |      |      |       |       |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                          |     |                                       |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                             |     |                                       |     |     |     |
| <b>Course ID:</b> ÚGE/<br>ZAE1/13                                                                                                                                                              |     | <b>Course name:</b> Foreign excursion |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 7d<br><b>Course method:</b> present |     |                                       |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                    |     |                                       |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                        |     |                                       |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                       |     |                                       |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                          |     |                                       |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                       |     |                                       |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                      |     |                                       |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                            |     |                                       |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                 |     |                                       |     |     |     |
| <b>Course language:</b>                                                                                                                                                                        |     |                                       |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                  |     |                                       |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 49                                                                                                                              |     |                                       |     |     |     |
| A                                                                                                                                                                                              | B   | C                                     | D   | E   | FX  |
| 100.0                                                                                                                                                                                          | 0.0 | 0.0                                   | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Zdenko Hochmuth, CSc., Mgr. Ladislav Novotný, PhD., RNDr. Alena Gessert, PhD.                                                                                      |     |                                       |     |     |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                   |     |                                       |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                            |     |                                       |     |     |     |

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|------|------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                                                           |       |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                                                           |       |      |      |
| <b>Course ID:</b> KPE/<br>ZMPPV/12                                                                                                                                                                                         |       | <b>Course name:</b> Fundamentals of Educational and Psychological Research<br>Methodology |       |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28<br><b>Course method:</b> present |       |                                                                                           |       |      |      |
| <b>Number of credits:</b> 4                                                                                                                                                                                                |       |                                                                                           |       |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                    |       |                                                                                           |       |      |      |
| <b>Course level:</b> II.                                                                                                                                                                                                   |       |                                                                                           |       |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                                                           |       |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                                                           |       |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                                                           |       |      |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                                                           |       |      |      |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                                                           |       |      |      |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                                                           |       |      |      |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                                                           |       |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 372                                                                                                                                                         |       |                                                                                           |       |      |      |
| A                                                                                                                                                                                                                          | B     | C                                                                                         | D     | E    | FX   |
| 20.97                                                                                                                                                                                                                      | 27.42 | 22.85                                                                                     | 20.43 | 7.53 | 0.81 |
| <b>Provides:</b> PhDr. Anna Janovská, PhD., Mgr. Zuzana Nováková, PhD., Mgr. Mária Bačíková, PhD.                                                                                                                          |       |                                                                                           |       |      |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                                               |       |                                                                                           |       |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                     |       |                                                                                           |       |      |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |     |                                              |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |     |                                              |     |     |     |
| <b>Course ID:</b> KAE/<br>ZET2/07                                                                                                                                                                       |     | <b>Course name:</b> Fundamentals of Ethics 2 |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |     |                                              |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                             |     |                                              |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |     |                                              |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                |     |                                              |     |     |     |
| <b>Prerequisites:</b> KAE/ZE1/07                                                                                                                                                                        |     |                                              |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |     |                                              |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |     |                                              |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |     |                                              |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |     |                                              |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                 |     |                                              |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                           |     |                                              |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 50                                                                                                                                       |     |                                              |     |     |     |
| A                                                                                                                                                                                                       | B   | C                                            | D   | E   | FX  |
| 94.0                                                                                                                                                                                                    | 6.0 | 0.0                                          | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> PhDr. Andrea Klimková, PhD.                                                                                                                                                            |     |                                              |     |     |     |
| <b>Date of last modification:</b> 29.01.2014                                                                                                                                                            |     |                                              |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |     |                                              |     |     |     |

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|-------|-------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                    |       |       |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                    |       |       |     |
| <b>Course ID:</b> KPE/<br>VPD/03                                                                                                                                                                                           |       | <b>Course name:</b> General Pedagogy and Didactics |       |       |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28<br><b>Course method:</b> present |       |                                                    |       |       |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                |       |                                                    |       |       |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                    |       |                                                    |       |       |     |
| <b>Course level:</b> II.                                                                                                                                                                                                   |       |                                                    |       |       |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                    |       |       |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                    |       |       |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                    |       |       |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                    |       |       |     |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                    |       |       |     |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                    |       |       |     |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                    |       |       |     |
| <b>Course assessment</b><br>Total number of assessed students: 958                                                                                                                                                         |       |                                                    |       |       |     |
| A                                                                                                                                                                                                                          | B     | C                                                  | D     | E     | FX  |
| 10.65                                                                                                                                                                                                                      | 21.71 | 25.99                                              | 21.82 | 10.33 | 9.5 |
| <b>Provides:</b> PaedDr. Renáta Orosová, PhD., Mgr. Zuzana Nováková, PhD.                                                                                                                                                  |       |                                                    |       |       |     |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                                               |       |                                                    |       |       |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                     |       |                                                    |       |       |     |

## COURSE INFORMATION LETTER

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |
| <b>Course ID:</b> ÚGE/<br>GRL/13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course name:</b> Geografia náboženstiev |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |
| <b>Conditions for course completion:</b><br>At the beginning of semester, students will be told the topics to be drawn up as written report and presented in a slideshow. This part is 40 % of total grading. Acquired knowledge and skills will be proven by written tests during the semester. Their results constitute 60 % of total grading. To obtain A grade, weighted average of the both parts of examination must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtain less than 50 % from any of both parts of examination.                                                                                                                                                                                                                           |                                            |
| <b>Learning outcomes:</b><br>Students understand the basic attributes of religion, know the spatial distribution of the world's major religions in the context of their history, current dynamics of selected religions in different regions of the world as well as in Slovakia. Students are able to interpret selected religions with emphasis on their relations with other components of geographical sphere.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |
| <b>Brief outline of the course:</b><br>Geography of religions is one of the newer disciplines of modern Slovak (human) geography. However, its justification is not in dispute. Religion is a phenomenon that significantly interacts with other components of geographic sphere. It is an important factor influencing the processes of demographic, economic, security-political, but indirectly reflected also in changes in physical-geographical characteristics of the region. During the semester, students should understand the development and current state of religious structure of the world population as well as regional populations, acquaint with individual religions and their paradigmatic worldview, what allows and understanding many of the ongoing processes and phenomena in relation to the broader geographic context. |                                            |
| <b>Recommended literature:</b><br>PARK, C., 2004: Religion and geography. In Hinnells, J., ed: Routledge Companion to the Study of Religion. Routledge (London), 556 p.<br>KOREC, P. 2009. Geografia náboženstva. 1. vyd. Bratislava: Prírodovedecká fakulta Univerzity Komenského, učebný text, 89 s.<br>STUMP, R. W., 2008: The geography of religion: faith, place and space. Lanham: Rowman & Littlefield Publishers, 423 p.<br>BUNČÁK, J. 2001: Religiozita na Slovensku a v európskom rámci. Sociológia, 33, 47 – 70.                                                                                                                                                                                                                                                                                                                          |                                            |

IRA, V. 1996: Etnická a religiózna štruktúra obyvateľstva východného Slovenska a percepcia etnických a religióznych napätí. Geografický časopis, 48, 13 – 34.  
 IŠTOK, R. MATLOVIČ, R. 1993: Vplyv náboženstva na politický systém v politicko-geografickom kontexte. Medzinárodné otázky, 2, 1-2.

**Course language:**  
 Slovak and English

**Notes:**

**Course assessment**

Total number of assessed students: 24

| A    | B    | C     | D    | E    | FX  |
|------|------|-------|------|------|-----|
| 25.0 | 37.5 | 16.67 | 8.33 | 12.5 | 0.0 |

**Provides:** Mgr. Ladislav Novotný, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |
| <b>Course ID:</b> ÚGE/<br>GSA/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Course name:</b> Geographic systems of nonproductive activities |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |
| <b>Brief outline of the course:</b><br>Geography of tourism - theoretical and methodological background. Potential of the country for the development of tourism and its location conditions. Settlement types and regionalisation of Slovakia from the point of tourism development. Tourism regions in Slovakia. Foreign tourism. Domestic and foreign trade and its role. Regularities of the commodity movement. Basic methods of the transport studies. Use of geographic methods in the geography of transport. Service sector in Slovakia.                                                                                                                                                                                                                                                             |                                                                    |
| <b>Recommended literature:</b><br>ČUKA, P., 2004: Stručný prehľad problematiky geografie nevýrobnej sféry, UMB Banská Bystrica, 57 s.<br>JAKOBY, M., KRAUTMANNOVÁ, I., 1998: Zahraničný obchod. In: Sľuby a realita. Slovenská ekonomika 1995-1998. M.E.S.A. 10, Nadácia otvorenej spoločnosti, Inštitút pre verejné otázky, s. 95-101.<br>HALÁS, M., 2000: Zahraničný obchod SR s ČR. Geographical Studies 7, Constantine the Philosopher University Nitra, s. 98-107.<br>MICHALOVÁ, V., ŠUTEROVÁ, V., 1999: Služby a cestovný ruch (I. časť: Služby), Bratislava, SPRINT v.fra, 249 s.<br>SZCZYRBA, Z., 2006: Geografie obchodu - se zaměřením na současné trendy v maloobchodě, PF Univerzita Palackého v Olomouci, 90 s.<br>TOUŠEK, V. a kol., 2008: Ekonomická a sociální geografie. Plzeň, 2008, 411 s. |                                                                    |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    |

|                                                                                                                     |       |       |       |       |     |
|---------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-----|
| <b>Course assessment</b>                                                                                            |       |       |       |       |     |
| Total number of assessed students: 171                                                                              |       |       |       |       |     |
| A                                                                                                                   | B     | C     | D     | E     | FX  |
| 22.22                                                                                                               | 22.22 | 22.22 | 18.71 | 14.62 | 0.0 |
| <b>Provides:</b> Mgr. Marián Kulla, PhD.                                                                            |       |       |       |       |     |
| <b>Date of last modification:</b> 11.02.2014                                                                        |       |       |       |       |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |       |       |       |     |

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |
| <b>Course ID:</b> ÚGE/<br>NGS/06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Course name:</b> German geographical seminar |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |
| <b>Conditions for course completion:</b><br>On the basis of part-time works, 5 in total (á 20 points), the student will receive the end evaluation of the subject. For each work he should acquire minimal 11 points, so 55 points in total.                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
| <b>Learning outcomes:</b><br>After the subject attendance the student should be able to communicate with professional german terminology in writing and oral presentation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| <b>Brief outline of the course:</b><br>The academic geographical terminology on particular topics of physical and human geography will be concerned. The world professionals of geography in the past and present. The system of university studies in Germany, German geographical periodicals, monographs. Geography of Germany.                                                                                                                                                                                                                                                                                                                 |                                                 |
| <b>Recommended literature:</b><br>BAUER, J., ENGLERT, W., MEIER, U., MORGENEYER, F., WALDECK, W., 2002: Physische Geographie kompakt. Spektrum Akademischer Verlag Heidelberg. 192 s.<br>HOLLERBACH, E., NESS, N., 2002: Rhein- von Mainz bis Koeln. Rahmel - Verlag GmbH, Pulheim. 96 s.<br>KOLEKTIV, 2004: Deutschland. Verlag Karl Baedeker Ostfildern. 1182 s.<br>KUBALLA, S., 2001: Unbekanntes Deutschland. ADAC Verlag GmbH Munchen. 432 s.<br>STRAHLER, H.A., STRAHLER, N.A., 1999: Physische Geographie. Verlag Eugen Ulmer Stuttgart. 294 s.<br>ZEPP, H., MÜLLER, M.J., 1999: Landschaftsökologie Erfassungsstandards. Flensburg. 312 s. |                                                 |
| <b>Course language:</b><br>slovak, german                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |

|                                                                                                                     |       |     |     |      |      |
|---------------------------------------------------------------------------------------------------------------------|-------|-----|-----|------|------|
| <b>Course assessment</b>                                                                                            |       |     |     |      |      |
| Total number of assessed students: 14                                                                               |       |     |     |      |      |
| A                                                                                                                   | B     | C   | D   | E    | FX   |
| 64.29                                                                                                               | 21.43 | 0.0 | 0.0 | 7.14 | 7.14 |
| <b>Provides:</b> RNDr. Alena Gessert, PhD.                                                                          |       |     |     |      |      |
| <b>Date of last modification:</b> 11.02.2014                                                                        |       |     |     |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |     |     |      |      |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------|------|-------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                                                  |      |       |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                                                  |      |       |     |
| <b>Course ID:</b> KGER/<br>NJKG/07                                                                                                                                                                      |       | <b>Course name:</b> Grammar in the German Language Communication |      |       |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                                                  |      |       |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                                                  |      |       |     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                    |       |                                                                  |      |       |     |
| <b>Course level:</b> I., II.                                                                                                                                                                            |       |                                                                  |      |       |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                                                  |      |       |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                                                  |      |       |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                                                  |      |       |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                                                  |      |       |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                                                  |      |       |     |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                                                  |      |       |     |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                                                  |      |       |     |
| <b>Course assessment</b><br>Total number of assessed students: 46                                                                                                                                       |       |                                                                  |      |       |     |
| A                                                                                                                                                                                                       | B     | C                                                                | D    | E     | FX  |
| 54.35                                                                                                                                                                                                   | 13.04 | 8.7                                                              | 4.35 | 10.87 | 8.7 |
| <b>Provides:</b> Dr. rer. pol. Michaela Kováčová                                                                                                                                                        |       |                                                                  |      |       |     |
| <b>Date of last modification:</b> 05.02.2014                                                                                                                                                            |       |                                                                  |      |       |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |       |                                                                  |      |       |     |

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------|-------|-------|------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                               |       |       |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                               |       |       |      |
| <b>Course ID:</b> ÚGE/<br>HGE/13                                                                                                                                                                                           |       | <b>Course name:</b> Human Geography of Europe |       |       |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present |       |                                               |       |       |      |
| <b>Number of credits:</b> 5                                                                                                                                                                                                |       |                                               |       |       |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                    |       |                                               |       |       |      |
| <b>Course level:</b> I., II.                                                                                                                                                                                               |       |                                               |       |       |      |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                               |       |       |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                               |       |       |      |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                               |       |       |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                               |       |       |      |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                               |       |       |      |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                               |       |       |      |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                               |       |       |      |
| <b>Course assessment</b><br>Total number of assessed students: 88                                                                                                                                                          |       |                                               |       |       |      |
| A                                                                                                                                                                                                                          | B     | C                                             | D     | E     | FX   |
| 12.5                                                                                                                                                                                                                       | 20.45 | 22.73                                         | 21.59 | 20.45 | 2.27 |
| <b>Provides:</b> RNDr. Stela Csachová, PhD.                                                                                                                                                                                |       |                                               |       |       |      |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                               |       |                                               |       |       |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                     |       |                                               |       |       |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |      |                                                                                                           |     |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |      |                                                                                                           |     |      |      |
| <b>Course ID:</b> KFaDF/KDF/05                                                                                                                                                                          |      | <b>Course name:</b> Chapters from History of Philosophy of 19th and 20th Centuries (General Introduction) |     |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |      |                                                                                                           |     |      |      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |      |                                                                                                           |     |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |      |                                                                                                           |     |      |      |
| <b>Course level:</b> I., II.                                                                                                                                                                            |      |                                                                                                           |     |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |      |                                                                                                           |     |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |      |                                                                                                           |     |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |      |                                                                                                           |     |      |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |      |                                                                                                           |     |      |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |      |                                                                                                           |     |      |      |
| <b>Course language:</b>                                                                                                                                                                                 |      |                                                                                                           |     |      |      |
| <b>Notes:</b>                                                                                                                                                                                           |      |                                                                                                           |     |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 10                                                                                                                                       |      |                                                                                                           |     |      |      |
| A                                                                                                                                                                                                       | B    | C                                                                                                         | D   | E    | FX   |
| 50.0                                                                                                                                                                                                    | 20.0 | 10.0                                                                                                      | 0.0 | 10.0 | 10.0 |
| <b>Provides:</b> doc. PhDr. Pavol Tholt, PhD., mim.prof.                                                                                                                                                |      |                                                                                                           |     |      |      |
| <b>Date of last modification:</b> 26.01.2014                                                                                                                                                            |      |                                                                                                           |     |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |      |                                                                                                           |     |      |      |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |     |                                                           |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |     |                                                           |     |     |     |
| <b>Course ID:</b> KFaDF/<br>FVp/04                                                                                                                                                                      |     | <b>Course name:</b> Chapters from Philosophy of Education |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |     |                                                           |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |     |                                                           |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                 |     |                                                           |     |     |     |
| <b>Course level:</b> I., II.                                                                                                                                                                            |     |                                                           |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |     |                                                           |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |     |                                                           |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |     |                                                           |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |     |                                                           |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |     |                                                           |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                 |     |                                                           |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                           |     |                                                           |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 3                                                                                                                                        |     |                                                           |     |     |     |
| A                                                                                                                                                                                                       | B   | C                                                         | D   | E   | FX  |
| 100.0                                                                                                                                                                                                   | 0.0 | 0.0                                                       | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. PhDr. Pavol Tholt, PhD., mim.prof.                                                                                                                                                |     |                                                           |     |     |     |
| <b>Date of last modification:</b> 26.01.2014                                                                                                                                                            |     |                                                           |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |     |                                                           |     |     |     |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------|-----|-----|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                          |     |     |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                          |     |     |     |     |     |
| <b>Course ID:</b> ÚCHV/<br>ZCVU/04                                                                                                                                                                                                                                                                                                                                                                                                                               |      | <b>Course name:</b> Chemical Engineering |     |     |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                       |      |                                          |     |     |     |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                          |     |     |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                          |     |     |     |     |     |
| <b>Course level:</b> II., III.                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                          |     |     |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                          |     |     |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                          |     |     |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                          |     |     |     |     |     |
| <b>Brief outline of the course:</b><br>General and Inorganic Engineering; Mineral raw materials; Raw materials processing, transport and holding; Chemical reactors; Chemical metallurgy – Fe, Al, Cu working; Inorganic acids manufacture (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, HF, H <sub>3</sub> PO <sub>4</sub> ); Industrial electrochemistry; Industrial fertilizers; Silicate industry – cement manufacture, ceramics; Petrochemistry |      |                                          |     |     |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                          |     |     |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                          |     |     |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                          |     |     |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 5                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                          |     |     |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B    | C                                        | D   | E   | FX  | N   | P   |
| 20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60.0 | 20.0                                     | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Zuzana Vargová, Ph.D.                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                          |     |     |     |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                          |     |     |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                                              |      |                                          |     |     |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                          |      |                                        |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                             |      |                                        |     |     |     |
| <b>Course ID:</b> ÚCHV/<br>CHE2/03                                                                                                                                                             |      | <b>Course name:</b> Chemical Excursion |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> Per study period: 1t<br><b>Course method:</b> present |      |                                        |     |     |     |
| <b>Number of credits:</b> 4                                                                                                                                                                    |      |                                        |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                        |      |                                        |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                       |      |                                        |     |     |     |
| <b>Prerequisites:</b> ÚCHV/ACHU/03 or ÚCHV/ACH2/03                                                                                                                                             |      |                                        |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                       |      |                                        |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                      |      |                                        |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                            |      |                                        |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                 |      |                                        |     |     |     |
| <b>Course language:</b>                                                                                                                                                                        |      |                                        |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                  |      |                                        |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 76                                                                                                                              |      |                                        |     |     |     |
| A                                                                                                                                                                                              | B    | C                                      | D   | E   | FX  |
| 93.42                                                                                                                                                                                          | 6.58 | 0.0                                    | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Zuzana Vargová, Ph.D.                                                                                                                                              |      |                                        |     |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                   |      |                                        |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                         |      |                                        |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |       |                                                            |      |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |       |                                                            |      |     |     |
| <b>Course ID:</b> ÚCHV/MSSU1/14                                                                                                                                                    |       | <b>Course name:</b> Chemistry and Didactics of Chemistry I |      |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |       |                                                            |      |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                        |       |                                                            |      |     |     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |       |                                                            |      |     |     |
| <b>Course level:</b> II.                                                                                                                                                           |       |                                                            |      |     |     |
| <b>Prerequisites:</b> ÚCHV/VKAU/04 ÚCHV/DCH2/15 and                                                                                                                                |       |                                                            |      |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                           |       |                                                            |      |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                          |       |                                                            |      |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                |       |                                                            |      |     |     |
| <b>Recommended literature:</b>                                                                                                                                                     |       |                                                            |      |     |     |
| <b>Course language:</b>                                                                                                                                                            |       |                                                            |      |     |     |
| <b>Notes:</b>                                                                                                                                                                      |       |                                                            |      |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 19                                                                                                                  |       |                                                            |      |     |     |
| A                                                                                                                                                                                  | B     | C                                                          | D    | E   | FX  |
| 36.84                                                                                                                                                                              | 36.84 | 21.05                                                      | 5.26 | 0.0 | 0.0 |
| <b>Provides:</b>                                                                                                                                                                   |       |                                                            |      |     |     |
| <b>Date of last modification:</b> 19.02.2014                                                                                                                                       |       |                                                            |      |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |       |                                                            |      |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |     |                                                             |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |     |                                                             |     |     |     |
| <b>Course ID:</b> ÚCHV/MSSU2/14                                                                                                                                                    |     | <b>Course name:</b> Chemistry and Didactics of Chemistry II |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |     |                                                             |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                        |     |                                                             |     |     |     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |     |                                                             |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                           |     |                                                             |     |     |     |
| <b>Prerequisites:</b> ÚCHV/VKoch/03 and ÚCHV/DCH2/15                                                                                                                               |     |                                                             |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                           |     |                                                             |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                          |     |                                                             |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                |     |                                                             |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                     |     |                                                             |     |     |     |
| <b>Course language:</b>                                                                                                                                                            |     |                                                             |     |     |     |
| <b>Notes:</b>                                                                                                                                                                      |     |                                                             |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 4                                                                                                                   |     |                                                             |     |     |     |
| A                                                                                                                                                                                  | B   | C                                                           | D   | E   | FX  |
| 100.0                                                                                                                                                                              | 0.0 | 0.0                                                         | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b>                                                                                                                                                                   |     |                                                             |     |     |     |
| <b>Date of last modification:</b> 19.02.2014                                                                                                                                       |     |                                                             |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |     |                                                             |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                  |       |                                                    |      |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                     |       |                                                    |      |      |      |
| <b>Course ID:</b><br>KPPaPZ/SDaM/09                                                                                                                                                                    |       | <b>Course name:</b> Child and Adolescent Sociology |      |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                                    |      |      |      |
| <b>Number of credits:</b> 2                                                                                                                                                                            |       |                                                    |      |      |      |
| <b>Recommended semester/trimester of the course:</b> 4.                                                                                                                                                |       |                                                    |      |      |      |
| <b>Course level:</b> II.                                                                                                                                                                               |       |                                                    |      |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                  |       |                                                    |      |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                               |       |                                                    |      |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                              |       |                                                    |      |      |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                    |       |                                                    |      |      |      |
| <b>Recommended literature:</b>                                                                                                                                                                         |       |                                                    |      |      |      |
| <b>Course language:</b>                                                                                                                                                                                |       |                                                    |      |      |      |
| <b>Notes:</b>                                                                                                                                                                                          |       |                                                    |      |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 704                                                                                                                                     |       |                                                    |      |      |      |
| A                                                                                                                                                                                                      | B     | C                                                  | D    | E    | FX   |
| 49.01                                                                                                                                                                                                  | 29.83 | 15.48                                              | 3.69 | 1.56 | 0.43 |
| <b>Provides:</b> PhDr. Zlatica Buocová, CSc., Mgr. Alexander Onufrák, PhD.                                                                                                                             |       |                                                    |      |      |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                           |       |                                                    |      |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                    |       |                                                    |      |      |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                          |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                          |       |
| <b>Course ID:</b> R UPJŠ/<br>IB10/14                                                                                                                                               | <b>Course name:</b> IB10 - Medzinárodný certifikát ECo-C |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                          |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                          |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                          |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                          |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                          |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                          |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                          |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                          |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                          |       |
| <b>Course language:</b>                                                                                                                                                            |                                                          |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                          |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                          |       |
| abs                                                                                                                                                                                | n                                                        | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                      | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                          |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                          |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                                          |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                         |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                         |       |
| <b>Course ID:</b> R UPJŠ/<br>IB11/14                                                                                                                                               | <b>Course name:</b> IB11 - Medzinárodný certifikát ECDL |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                         |       |
| <b>Number of credits:</b> 14                                                                                                                                                       |                                                         |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                         |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                         |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                         |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                         |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                         |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                         |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                         |       |
| <b>Course language:</b>                                                                                                                                                            |                                                         |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                         |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                         |       |
| abs                                                                                                                                                                                | n                                                       | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                     | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                         |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                         |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                                         |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                                            |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                                            |       |
| <b>Course ID:</b> R UPJŠ/<br>IB12/14                                                                                                                                               | <b>Course name:</b> IB12 - Používanie, administrácia a vývoj v systéme SAP |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                                            |       |
| <b>Number of credits:</b> 54                                                                                                                                                       |                                                                            |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                                            |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                                            |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                                            |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                                            |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                                            |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                                            |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                                            |       |
| <b>Course language:</b>                                                                                                                                                            |                                                                            |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                                            |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                                            |       |
| abs                                                                                                                                                                                | n                                                                          | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                                        | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                                            |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                                            |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                                                            |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                                                |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                                                |       |
| <b>Course ID:</b> R UPJŠ/IB1/14                                                                                                                                                    | <b>Course name:</b> IB1 - Etika v biomedicínskych vedách pre zdravotnícku prax |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                                                |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                                                |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                                                |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                                                |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                                                |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                                                |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                                                |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                                                |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                                                |       |
| <b>Course language:</b>                                                                                                                                                            |                                                                                |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                                                |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                                                |       |
| abs                                                                                                                                                                                | n                                                                              | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                                            | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                                                |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                                                |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                                                |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                                   |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                                   |       |
| <b>Course ID:</b> R UPJŠ/IB2/14                                                                                                                                                    | <b>Course name:</b> IB2 - Právne minimum – súkromnoprávne aspekty |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                                   |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                                   |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                                   |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                                   |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                                   |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                                   |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                                   |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                                   |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                                   |       |
| <b>Course language:</b>                                                                                                                                                            |                                                                   |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                                   |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                                   |       |
| abs                                                                                                                                                                                | n                                                                 | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                               | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                                   |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                                   |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                                   |       |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                                  |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                                  |       |
| <b>Course ID:</b> R UPJŠ/IB3/14                                                                                                                                                    | <b>Course name:</b> IB3 - Právne minimum – verejnoprávne aspekty |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                                  |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                                  |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                                  |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                                  |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                                  |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                                  |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                                  |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                                  |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                                  |       |
| <b>Course language:</b>                                                                                                                                                            |                                                                  |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                                  |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                                  |       |
| abs                                                                                                                                                                                | n                                                                | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                              | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                                  |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                                  |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                                  |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                |       |
| <b>Course ID:</b> R UPJŠ/IB4/14                                                                                                                                                    | <b>Course name:</b> IB4 - Projektový manažment |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                |       |
| <b>Number of credits:</b> 20                                                                                                                                                       |                                                |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                |       |
| <b>Course language:</b>                                                                                                                                                            |                                                |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                |       |
| abs                                                                                                                                                                                | n                                              | neabs |
| 0.0                                                                                                                                                                                | 0.0                                            | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                |       |
| <b>Course ID:</b> R UPJŠ/<br>IB5/14                                                                                                                                                | <b>Course name:</b> IB5 - Manažérska ekonomika |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                |       |
| <b>Course language:</b>                                                                                                                                                            |                                                |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                |       |
| abs                                                                                                                                                                                | n                                              | neabs |
| 0.0                                                                                                                                                                                | 0.0                                            | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                                |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                                                       |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                                                       |       |
| <b>Course ID:</b> R UPJŠ/<br>IB6/14                                                                                                                                                | <b>Course name:</b> IB6 - Riešenie konfliktných a krízových situácií v školskej praxi |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                                                       |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                                                       |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                                                       |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                                                       |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                                                       |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                                                       |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                                                       |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                                                       |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                                                       |       |
| <b>Course language:</b>                                                                                                                                                            |                                                                                       |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                                                       |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                                                       |       |
| abs                                                                                                                                                                                | n                                                                                     | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                                                   | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                                                       |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                                                       |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                                                       |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                               |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                               |       |
| <b>Course ID:</b> R UPJŠ/<br>IB7/14                                                                                                                                                | <b>Course name:</b> IB7 - Štatistika pre prax |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                               |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                               |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                               |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                               |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                               |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                               |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                               |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                               |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                               |       |
| <b>Course language:</b>                                                                                                                                                            |                                               |       |
| <b>Notes:</b>                                                                                                                                                                      |                                               |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                               |       |
| abs                                                                                                                                                                                | n                                             | neabs |
| 0.0                                                                                                                                                                                | 0.0                                           | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                               |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                               |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                             |                                               |       |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                                               |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                                               |       |
| <b>Course ID:</b> R UPJŠ/IB8/14                                                                                                                                                    | <b>Course name:</b> IB8 - Environmentálne aspekty záťaže životného prostredia |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                                               |       |
| <b>Number of credits:</b> 16                                                                                                                                                       |                                                                               |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                                               |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                                               |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                                               |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                                               |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                                               |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                                               |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                                               |       |
| <b>Course language:</b>                                                                                                                                                            |                                                                               |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                                               |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                                               |       |
| abs                                                                                                                                                                                | n                                                                             | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                                           | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                                               |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                                               |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                                               |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |                                                         |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |                                                         |       |
| <b>Course ID:</b> R UPJŠ/IB9/14                                                                                                                                                    | <b>Course name:</b> IB9 - Medzinárodný certifikát TOEFL |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |                                                         |       |
| <b>Number of credits:</b> 17                                                                                                                                                       |                                                         |       |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |                                                         |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                |                                                         |       |
| <b>Prerequisites:</b>                                                                                                                                                              |                                                         |       |
| <b>Conditions for course completion:</b>                                                                                                                                           |                                                         |       |
| <b>Learning outcomes:</b>                                                                                                                                                          |                                                         |       |
| <b>Brief outline of the course:</b>                                                                                                                                                |                                                         |       |
| <b>Recommended literature:</b>                                                                                                                                                     |                                                         |       |
| <b>Course language:</b>                                                                                                                                                            |                                                         |       |
| <b>Notes:</b>                                                                                                                                                                      |                                                         |       |
| <b>Course assessment</b><br>Total number of assessed students: 0                                                                                                                   |                                                         |       |
| abs                                                                                                                                                                                | n                                                       | neabs |
| 0.0                                                                                                                                                                                | 0.0                                                     | 0.0   |
| <b>Provides:</b>                                                                                                                                                                   |                                                         |       |
| <b>Date of last modification:</b> 11.08.2014                                                                                                                                       |                                                         |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |                                                         |       |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------|-------|-------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                                             |       |       |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                                             |       |       |     |
| <b>Course ID:</b> KFaDF/IH1/03                                                                                                                                                                          |       | <b>Course name:</b> Idea Humanitas 1 (General Introduction) |       |       |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                                             |       |       |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                                             |       |       |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |       |                                                             |       |       |     |
| <b>Course level:</b> I., II.                                                                                                                                                                            |       |                                                             |       |       |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                                             |       |       |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                                             |       |       |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                                             |       |       |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                                             |       |       |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                                             |       |       |     |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                                             |       |       |     |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                                             |       |       |     |
| <b>Course assessment</b><br>Total number of assessed students: 9                                                                                                                                        |       |                                                             |       |       |     |
| A                                                                                                                                                                                                       | B     | C                                                           | D     | E     | FX  |
| 55.56                                                                                                                                                                                                   | 11.11 | 0.0                                                         | 11.11 | 22.22 | 0.0 |
| <b>Provides:</b> Doc. PhDr. Peter Nezník, CSc.                                                                                                                                                          |       |                                                             |       |       |     |
| <b>Date of last modification:</b> 26.01.2014                                                                                                                                                            |       |                                                             |       |       |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |       |                                                             |       |       |     |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------|------|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                       |      |                                                      |      |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                          |      |                                                      |      |     |     |
| <b>Course ID:</b> ÚGE/ISU/12                                                                                                                                                                                                                                                                |      | <b>Course name:</b> Information systems on territory |      |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 2 <b>Per study period:</b> 14 / 28<br><b>Course method:</b> present                                                                  |      |                                                      |      |     |     |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                 |      |                                                      |      |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                     |      |                                                      |      |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                    |      |                                                      |      |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                       |      |                                                      |      |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                    |      |                                                      |      |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                   |      |                                                      |      |     |     |
| <b>Brief outline of the course:</b><br>The class focuses on introduction to the information systems of regions providing mainly geospatial information on particular phenomenon. We discuss mainly web based information systems on soils, cadastre, geology, etc. and their practical use. |      |                                                      |      |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                              |      |                                                      |      |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                     |      |                                                      |      |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                               |      |                                                      |      |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 133                                                                                                                                                                                                                          |      |                                                      |      |     |     |
| A                                                                                                                                                                                                                                                                                           | B    | C                                                    | D    | E   | FX  |
| 85.71                                                                                                                                                                                                                                                                                       | 6.77 | 3.01                                                 | 4.51 | 0.0 | 0.0 |
| <b>Provides:</b> prof. Mgr. Jaroslav Hofierka, PhD., Mgr. Michal Gallay, PhD., RNDr. Ján Kaňuk, PhD.                                                                                                                                                                                        |      |                                                      |      |     |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                |      |                                                      |      |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                         |      |                                                      |      |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                           |                                                                |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                              |                                                                |
| <b>Course ID:</b> KPE/MPPa/12                                                                                                                                                                   | <b>Course name:</b> Interim Pedagogical-Psychological Training |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 36s<br><b>Course method:</b> present |                                                                |
| <b>Number of credits:</b> 2                                                                                                                                                                     |                                                                |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                         |                                                                |
| <b>Course level:</b> II.                                                                                                                                                                        |                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                           |                                                                |
| <b>Conditions for course completion:</b>                                                                                                                                                        |                                                                |
| <b>Learning outcomes:</b>                                                                                                                                                                       |                                                                |
| <b>Brief outline of the course:</b>                                                                                                                                                             |                                                                |
| <b>Recommended literature:</b>                                                                                                                                                                  |                                                                |
| <b>Course language:</b>                                                                                                                                                                         |                                                                |
| <b>Notes:</b>                                                                                                                                                                                   |                                                                |
| <b>Course assessment</b><br>Total number of assessed students: 691                                                                                                                              |                                                                |
| abs                                                                                                                                                                                             | n                                                              |
| 99.86                                                                                                                                                                                           | 0.14                                                           |
| <b>Provides:</b> PhDr. Beáta Gajdošová, PhD., PaedDr. Renáta Orosová, PhD., Mgr. Ján Juščák, PhD., Mgr. Zuzana Nováková, PhD.                                                                   |                                                                |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                    |                                                                |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                             |                                                                |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                             |
| <b>Course ID:</b> ÚCHV/<br>UECH/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Course name:</b> Introduction to Environmental Chemistry |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                             |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                             |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                             |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |
| <b>Conditions for course completion:</b><br>Oral examination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                             |
| <b>Learning outcomes:</b><br>Introduction to topics in environmental chemistry and basic procedures applied for environmental protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                             |
| <b>Brief outline of the course:</b><br>Introduction to Environmental Chemistry<br>Chemical aspects of pollution and environmental problems. Composition and behavior of the atmosphere. Energy balance of the Earth and climate changes. Principles of photochemistry, photoprocesses in the atmosphere. Petroleum, hydrocarbons and coal (characteristics, sources and environmental pollution). Soaps, polymers and synthetic surfactants. Haloorganics and pesticides. Environmental chemistry of some important elements (C, N, S, P, halogens, biologically important metals ...). Environmental chemistry in aqueous media. Aqueous systems, parameters, cycles and their protection. The Earth's crust (rocks, minerals, soils). Natural and artificial radioactivity, utilization. Energy and energy sources (fossil fuels, nuclear, geothermal, solar energy, wind and water energy). Solid waste disposal and recycling. |                                                             |
| <b>Recommended literature:</b><br>1. Gary W. van Loon, Stephen J. Duffy : Environmental Chemistry - A Global Perspective, Oxford University Press, Oxford 2003<br>2. R.A. Bailey, H.M. Clark, J.P. Ferris, S. Krause, R.L. Strong : Chemistry of the Environment, Academic Press, San Diego 2002<br>3. G. Schwedt: The Essential Guide to Environmental Chemistry, Wiley and Sons, London 2001<br>4. R.N. Reeve, J.D. Barnes: General Environmental Chemistry, Wiley, London 1994<br>5. G. Burton, J. Holman, G. Pilling, D. Waddington: Chemical Storylines, Heinemann, Oxford, London 1994<br>6. www                                                                                                                                                                                                                                                                                                                             |                                                             |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                             |

|                                                                                                                     |       |       |      |      |      |
|---------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|
| <b>Course assessment</b>                                                                                            |       |       |      |      |      |
| Total number of assessed students: 189                                                                              |       |       |      |      |      |
| A                                                                                                                   | B     | C     | D    | E    | FX   |
| 48.15                                                                                                               | 19.05 | 16.93 | 9.52 | 5.82 | 0.53 |
| <b>Provides:</b> RNDr. Andrea Straková Fedorková, PhD.                                                              |       |       |      |      |      |
| <b>Date of last modification:</b> 03.02.2014                                                                        |       |       |      |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |       |      |      |      |

## COURSE INFORMATION LETTER

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
| <b>Course ID:</b> ÚCHV/<br>FUMCH1/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Course name:</b> Introduction to Material Chemistry |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |
| <b>Recommended semester/trimester of the course:</b> 1., 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |
| <b>Conditions for course completion:</b><br>Seminar work.<br>Examination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |
| <b>Learning outcomes:</b><br>To present the different types of functional materials, their atomic structure and mechanical properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |
| <b>Brief outline of the course:</b><br>Historical perspectives. Materials and human being. Participation of natural science in material engineering. Material revolutions. Classification of materials. Atomic structure and interatomic bonding. Amorphous and crystalline materials. Mechanics of materials. Imperfections in solids. Crystal lattice defects. Point defects. Line defects. Dislocations. Diffusion. Diffusion mechanisms. Deformations and failures, re-crystallization. Deformations. Plastic deformations. Solid solutions. Intermediary phases. Phases in ceramic systems. Phase transformations. Crystallization of metals. Phase identification methods. Stress and strain. Structure of metallic and ceramic materials. Alloys. Steel. Light metals. Metallic glasses. Gold. Inorganic non-metallic materials. Ceramic construction materials. Ceramic tools. Bio-ceramics. Ceramics in cosmos. High-temperature superconductors. Glass. Building binders. Polymers. Essence of polymers. Thermoplastics. Reactoplastics. Polymer structure. Mechanical properties of polymers. Natural materials. Wood. Bones. Teeth. Conchs and shells. Tectrices. |                                                        |
| <b>Recommended literature:</b><br>W. D. Callister, Jr.: Fundamentals of Materials Science and Engineering, John Wiley & Sons, 2001.<br>Brian S. Mitchell: An Introduction to Materials Engineering and Science: For Chemical and Materials Engineers, John Wiley & Sons, 2004.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |

|                                                                                                                     |       |     |     |     |      |
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| <b>Course assessment</b>                                                                                            |       |     |     |     |      |
| Total number of assessed students: 49                                                                               |       |     |     |     |      |
| A                                                                                                                   | B     | C   | D   | E   | FX   |
| 85.71                                                                                                               | 12.24 | 0.0 | 0.0 | 0.0 | 2.04 |
| <b>Provides:</b> doc. RNDr. Renáta Oriňáková, PhD.                                                                  |       |     |     |     |      |
| <b>Date of last modification:</b> 03.02.2014                                                                        |       |     |     |     |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |     |     |     |      |

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                        |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                        |     |     |     |
| <b>Course ID:</b> ÚCHV/<br>USA/03                                                                                                                                                                                          |       | <b>Course name:</b> Introduction to Structure Analysis |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present |       |                                                        |     |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                |       |                                                        |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                    |       |                                                        |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                   |       |                                                        |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                        |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                        |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                        |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                        |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                        |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                        |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                        |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 1                                                                                                                                                           |       |                                                        |     |     |     |
| A                                                                                                                                                                                                                          | B     | C                                                      | D   | E   | FX  |
| 0.0                                                                                                                                                                                                                        | 100.0 | 0.0                                                    | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Ivan Potočný, PhD.                                                                                                                                                                             |       |                                                        |     |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                               |       |                                                        |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                     |       |                                                        |     |     |     |

## COURSE INFORMATION LETTER

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
| <b>Course ID:</b> ÚGE/<br>MED/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Course name:</b> Medical geography |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| <b>Conditions for course completion:</b><br>Presentation of paper on the assignment theme, concluding test – minimum of success rate is 60 %.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| <b>Learning outcomes:</b><br>Special aspects of health, illness, mortality and socio-patological phenomenons and processes of Earth.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |
| <b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Medical geography, its genesis and development, object of study, representatives: world – Europe - Slovakia).</li> <li>2. Medical geography in the system of geographical sciences. Medicine and other helping events of medical geography and its intersection problems).</li> <li>3. Medical and medical geography statistics and possibilities of basic analysis and synthesis</li> <li>4. Basic demographic analysis and synthesis of the world – continents – from the point of view of medical relevance – fertility, natality, morbidity – lethality, prevalence, mortality – newborn mortality, sucling mortality, ...), structure of mortality by causes . classification causes of mortality.</li> <li>5. Nozogeography (diseases a morbidity – incidence, conditionality, nozo regions, ...).</li> <li>6. Spatial distribution of selected diseases (espetially endemic-, pandemic-, tropic- and civilization diseases , ...). Characteristics of selected diseases and world statistics of diseases).</li> <li>7. Health services – genesis, development, health systems and its types</li> <li>8. Red Cross organization (genesis, function, activity, WHO – world health organization (genesis, structure, function and activity). Other international medical organizations, organization for health protection.</li> <li>9. Health services and institution in Slovakia.</li> <li>10. Social pathology - object and subject of study, phenomenon and Processes, statistics and possibilities of geographical application.</li> <li>11. Poverty in its the spatial distribution.</li> <li>12. Medicine of catastrophes and its geographic relevance.</li> </ol> |                                       |
| <b>Recommended literature:</b><br>BÁLINT, O. (1998): Tropická a cestovná medicína. Medon, 569 s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |

BENCKO, V., NOVÁK, J., SUK, M. 2011: Zdraví a přírodní podmínky. Dolin, s. r. o. Praha, 389 s. ISBN 978-80-905047-0-7

DANEŠ, L. (1999): Přírodní ohniskovost' chorôb. Praha.

KANDRÁČOVÁ, V. 2005: Medicínska (lekárska) geografia – nová geografická disciplína so starou tradíciou. BIGECHE č. 7, Metodické centrum Prešov, s. 49-55.

KRAJČÍR, A. 1970: Vývoj a súčasný stav medicínskej geografie. Geografický časopis, roč. 22, s. 51-65.

KRAJČÍR, A. 1971: Teoretická problematika medicínskej geografie. Geografický časopis roč. 23, č. 3, s. 339-353.

ŠERÝ, V. 1979: Nemoci na Zemi. Academia Praha. 355 s.

ŠIMKO, Š., BABÍK, J. 1997: Hromadné nešťastia – medicína katastrof. Osveta Martin, 248 s. ISBN 80-88824-65-6.

SCHIAVONE, Ch.J., IVY, R. L. (1998): Modeling for health care planning: A case of the Slovak republik. Geografické štúdie 5, Nitra, s. 5-21.

KAVKA, S. (1989): Světová zdravotnická organizace. Avicenum Praha, 176 s. ŠVK-PO sig.: A 147887.

KOVALEVA, J.P., LYSENKO, A.J., NIKITIN, D.P. (1987): Urbanizace a problémy epidemiologie. Avicenum Praha, 148 s. ŠVK-PO sig.: A 139554

MAĐAR, R. (2001): Zdravie, nejlepší spoločník na cestách. Choroby nepoznajú hranice a nepoznajú víza. ARD s.r.o. Žilina pre Aventis Pasteur, 99 s.

MICHÁLEK, A. (1998): Stručná analýza úrovne a faktorov kriminality vo vybraných okresoch Slovenska. Geografické štúdie 5, Nitra, s. 55-67.

ŠERÝ, V. (1979): Nemoci na Zemi. Academia Praha.

ŠERÝ, V., LYSENKO, A.J. (1984): Lékařství v tropech a subtropch. Avicenum Praha, 496 s.

ŠERÝ, V.,

**Course language:**

Slovak

**Notes:**

**Course assessment**

Total number of assessed students: 38

| A     | B   | C   | D   | E   | FX  |
|-------|-----|-----|-----|-----|-----|
| 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Provides:** RNDr. Katarína Kozáková, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                         |      |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                         |      |      |      |
| <b>Course ID:</b> ÚCHV/DCHa/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | <b>Course name:</b> Methodology of Chemistry Teaching I |      |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 1 <b>Per study period:</b> 14 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                         |      |      |      |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                         |      |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                         |      |      |      |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                         |      |      |      |
| <b>Prerequisites:</b> ÚCHV/SPC1a/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                         |      |      |      |
| <b>Conditions for course completion:</b><br>Seminar work<br>Oral examination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                         |      |      |      |
| <b>Learning outcomes:</b><br>The aim of this subject is to apply the pedagogical, psychological and didactic relation of education with connection to theory and praxis. It is meant for education of chemistry on primary and secondary school.                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                         |      |      |      |
| <b>Brief outline of the course:</b><br>Methodology of Teaching Chemistry as Science and as object of Teaching. Select, structural, compassion, documentation of curriculum chemistry, concretization of pedagogical-educational aims. View of forms Teaching chemistry, methods of Teaching and means disclosure of curriculum on the concrete subject of curriculum secondary chemistry. Complex summary of use material didactic resources in the academic too contemporary forms Teaching of chemistry. The use of didactic technology in theoretical and experimental Teaching of chemistry. Hobby and out of school activities in chemistry. |       |                                                         |      |      |      |
| <b>Recommended literature:</b><br>1. Ganajová, M.: Vybrané kapitoly zo všeobecnej didaktiky chémie, UPJŠ Košice 2009, ISBN 978-80-7097-756-9<br>2. Ganajová, M., Kalafutová, J.: <a href="http://moodle.science.upjs.sk">http://moodle.science.upjs.sk</a> e-kurz: Vybrané kapitoly zo všeobecnej didaktiky chémie pre rok 2008/2009                                                                                                                                                                                                                                                                                                              |       |                                                         |      |      |      |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                         |      |      |      |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                         |      |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 238                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                         |      |      |      |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B     | C                                                       | D    | E    | FX   |
| 68.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 18.91 | 6.72                                                    | 3.78 | 1.68 | 0.84 |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                         |      |      |      |

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|---------------------------------------------------------------------------------------------------------------------|
| <b>Date of last modification:</b> 03.02.2014                                                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                    |      |                                                          |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                       |      |                                                          |     |     |     |
| <b>Course ID:</b> ÚCHV/DCHb/03                                                                                                                                                                                                                                                                                                                                                                           |      | <b>Course name:</b> Methodology of Chemistry Teaching II |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28<br><b>Course method:</b> present                                                                                                                                                                               |      |                                                          |     |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                              |      |                                                          |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                  |      |                                                          |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                          |     |     |     |
| <b>Prerequisites:</b> ÚCHV/DCHa/03                                                                                                                                                                                                                                                                                                                                                                       |      |                                                          |     |     |     |
| <b>Conditions for course completion:</b><br>Seminar work<br>Oral examination                                                                                                                                                                                                                                                                                                                             |      |                                                          |     |     |     |
| <b>Learning outcomes:</b><br>The aim of this subject is an analysis of a concrete theme and themes of chemistry curriculum meant for secondary school. Students should familiarize with contents, selected teaching methods and possibility of ICT applying in chemistry education                                                                                                                       |      |                                                          |     |     |     |
| <b>Brief outline of the course:</b><br>Didactic of Atomic structure<br>Didactic of Molecular structure and chemical bonding<br>Didactic of Chemical action<br>Didactic of Periodic system of elements<br>Didactic of Chemical thermodynamics and kinetics<br>Didactic of Organic chemistry<br>Didactic of Chemistry of common life                                                                       |      |                                                          |     |     |     |
| <b>Recommended literature:</b><br>1. Pachman E. a kol.: Speciální didaktika chemie. SPN Praha 1986.<br>2. Smik L. a kol.: Špeciálna didaktika chémie. Učebný text I. a II. UPJŠ 1984.<br>3. Pfeifer P.: Konkrete Fachdidaktik Chemie Oldenbourg Verlag GmbH. München 1992.<br>4. The primary and secondary textbook of chemistry<br>5. Journals: J. Chem. Educ., Chemie in der Schule, Přírodní vědy šk. |      |                                                          |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                  |      |                                                          |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                          |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 200                                                                                                                                                                                                                                                                                                                                       |      |                                                          |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                        | B    | C                                                        | D   | E   | FX  |
| 61.5                                                                                                                                                                                                                                                                                                                                                                                                     | 21.5 | 12.5                                                     | 2.5 | 2.0 | 0.0 |

|                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                           |
| <b>Date of last modification:</b> 03.02.2014                                                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |
| <b>Course ID:</b> ÚFV/<br>FEP1/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course name:</b> Microcomputer Based Science Laboratory |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 2 <b>Per study period:</b> 14 / 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |
| <b>Conditions for course completion:</b><br>test 30 points<br>active participation 10 points<br>project (development of mathematical model, videomeasurement and physical experiment) 60 points<br>The final assessment is based on the sum of partial results                                                                                                                                                                                                                                                                                                                                                                        |                                                            |
| <b>Learning outcomes:</b><br>After the course student gains an overview about the possible use of digital technologies to support active learning in science. He gains skills to use and develop activities on measuring data with the help of datalogging, measuring on picture and viderecording and modeling natural processes. Student is able to implement such activities in science teaching to support active learning and conceptual understanding.                                                                                                                                                                          |                                                            |
| <b>Brief outline of the course:</b><br>The aim of the course is to present the use of digital technologies to enhance active learning in science with the help of datalogging, videomeasurement and modeling tools. Mathematical modeling is based on dynamical modeling of natural phenomena. Within the course students carry out computer-based experiments, videomeasurements and measurement on picture and create corresponding models. The activities involve selected topics of secondary schools science. The emphasize is put on the methods of implementation of the activities with regard to active students ' learning. |                                                            |
| <b>Recommended literature:</b><br>[1]Koubek, V., Pecen, I.: Fyzikálne experimenty a modely v školskom mikropočítačom podporovanom laboratóriu, Univerzita Komenského, Bratislava, 1999<br>[2]Príručka COACH<br>[3] <a href="http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm">http://physedu.science.upjs.sk/sis/fyzika/experimenty/index.htm</a>                                                                                                                                                                                                                                                                      |                                                            |
| <b>Course language:</b><br>Slovak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |

|                                                                                                                     |       |       |     |     |     |
|---------------------------------------------------------------------------------------------------------------------|-------|-------|-----|-----|-----|
| <b>Course assessment</b>                                                                                            |       |       |     |     |     |
| Total number of assessed students: 34                                                                               |       |       |     |     |     |
| A                                                                                                                   | B     | C     | D   | E   | FX  |
| 44.12                                                                                                               | 44.12 | 11.76 | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Zuzana Ješková, PhD.                                                                    |       |       |     |     |     |
| <b>Date of last modification:</b> 18.02.2014                                                                        |       |       |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |       |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |      |                                                |     |     |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |      |                                                |     |     |      |
| <b>Course ID:</b> ÚFV/<br>MDT06/06                                                                                                                                                                      |      | <b>Course name:</b> Modern Didactical Technics |     |     |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |      |                                                |     |     |      |
| <b>Number of credits:</b> 3                                                                                                                                                                             |      |                                                |     |     |      |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                    |      |                                                |     |     |      |
| <b>Course level:</b> I., II.                                                                                                                                                                            |      |                                                |     |     |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |      |                                                |     |     |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |      |                                                |     |     |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |      |                                                |     |     |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |      |                                                |     |     |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |      |                                                |     |     |      |
| <b>Course language:</b>                                                                                                                                                                                 |      |                                                |     |     |      |
| <b>Notes:</b>                                                                                                                                                                                           |      |                                                |     |     |      |
| <b>Course assessment</b><br>Total number of assessed students: 76                                                                                                                                       |      |                                                |     |     |      |
| A                                                                                                                                                                                                       | B    | C                                              | D   | E   | FX   |
| 97.37                                                                                                                                                                                                   | 1.32 | 0.0                                            | 0.0 | 0.0 | 1.32 |
| <b>Provides:</b> doc. RNDr. Marián Kireš, PhD.                                                                                                                                                          |      |                                                |     |     |      |
| <b>Date of last modification:</b> 18.02.2014                                                                                                                                                            |      |                                                |     |     |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |      |                                                |     |     |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
| <b>Course ID:</b> ÚGE/<br>NTG/13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Course name:</b> Modern trends in geography teaching |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |
| <b>Conditions for course completion:</b><br>active participation at seminar, submission of tasks, model of a geography lesson. A credit will be awarded to a student who actively participates at classes, submits the works and presents a geography lesson.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| <b>Learning outcomes:</b><br>The students will master the work with modern teaching tool and modern teaching equipment suitable for geography teaching at primary and secondary schools. The students will be provided with conceptions of field work and inquiry-based learning as well as doing practical activities for geography teaching.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <b>Brief outline of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| <b>Recommended literature:</b><br>FARÁRIK, P. 2013: Geografia moderne a zábavne. Bratislava: Metodické centrum<br>GAVORA, P. 2011: Akí sú moji žiaci. Nitra: Enigma<br>KANCÍR, J., MADZIKOVÁ, A. 2011: Didaktika vlastivedy. Prešov: Prešovská univerzita<br>KÚNHLOVÁ, H. 1999: Kapitoly z didaktiky geografie, Praha: Univerzita Karlova<br>LAMBERT, D., BALDERSTONE, D. (2007). Learning to Teach Geography in the Secondary School.<br>LIKAVSKÝ, P. 2006: Všeobecná didaktika geografie. Bratislava: Univerzita Komenského<br>Využitie informačných a komunikačných technológií v predmete geografia pre základné školy, učebný materiál, Modul 3, UIPŠ, 2010<br>Využitie informačných a komunikačných technológií v predmete geografia pre stredné školy, učebný materiál, Modul 3, UIPŠ, 2010<br>Časopisy Dnešní svět, Moderní vyučování, Geografia, Geografické rozhledy, BIGECHE<br>web stránka Štátneho pedagogického ústavu <a href="http://www.spu.sk">www.spu.sk</a> |                                                         |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |

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|---------------------------------------------------------------------------------------------------------------------|------|-----|-----|-----|-----|
| <b>Course assessment</b>                                                                                            |      |     |     |     |     |
| Total number of assessed students: 10                                                                               |      |     |     |     |     |
| A                                                                                                                   | B    | C   | D   | E   | FX  |
| 50.0                                                                                                                | 50.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> RNDr. Alena Gessert, PhD., RNDr. Stela Csachová, PhD.                                              |      |     |     |     |     |
| <b>Date of last modification:</b> 11.02.2014                                                                        |      |     |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |      |     |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                     |                                    |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                        |                                    |
| <b>Course ID:</b> ÚTVŠ/<br>NJ//13                                                                                                                                                                         | <b>Course name:</b> Naval Yachting |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 36 <b>Per study period:</b> 504<br><b>Course method:</b> present |                                    |
| <b>Number of credits:</b> 2                                                                                                                                                                               |                                    |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                      |                                    |
| <b>Course level:</b> I., II.                                                                                                                                                                              |                                    |
| <b>Prerequisites:</b>                                                                                                                                                                                     |                                    |
| <b>Conditions for course completion:</b>                                                                                                                                                                  |                                    |
| <b>Learning outcomes:</b>                                                                                                                                                                                 |                                    |
| <b>Brief outline of the course:</b>                                                                                                                                                                       |                                    |
| <b>Recommended literature:</b>                                                                                                                                                                            |                                    |
| <b>Course language:</b>                                                                                                                                                                                   |                                    |
| <b>Notes:</b>                                                                                                                                                                                             |                                    |
| <b>Course assessment</b><br>Total number of assessed students: 2                                                                                                                                          |                                    |
| abs                                                                                                                                                                                                       | n                                  |
| 100.0                                                                                                                                                                                                     | 0.0                                |
| <b>Provides:</b> doc. Mgr. Rastislav Feč, PhD.                                                                                                                                                            |                                    |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                              |                                    |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                    |                                    |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                      |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                      |     |     |     |
| <b>Course ID:</b> ÚCHV/<br>NTVC/06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | <b>Course name:</b> New Trends in Chemistry Teaching |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                              |      |                                                      |     |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                      |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                      |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                                      |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                      |     |     |     |
| <b>Conditions for course completion:</b><br>Seminar work<br>Oral examination                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                      |     |     |     |
| <b>Learning outcomes:</b><br>The aim of this subject is to acquaint future teachers of chemistry with brand new trends of education in European Union countries.                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                      |     |     |     |
| <b>Brief outline of the course:</b><br>Chemistry of everyday life both at home and abroad, educational texts, chemical experiments, CD-ROMs, Chemistry Nourishes Us, Chemistry of Water, Soil and Air<br>Chemical experiments of everyday life connected with the themes such as Chemistry Nourishes Us, Cosmetic Chemistry, Acids and Bases of Common Life, Project-based learning in chemistry, Teleprojects in chemistry, Using ICT in the teaching of themes: Chemical experiments of everyday life, Vitamins, Mineral substances and Mineral water |      |                                                      |     |     |     |
| <b>Recommended literature:</b><br>1. Ganajová, M. 2005: Chemické experimenty s vybranými produktami z obchodu. UPJŠ v Košiciach, Prírodovedecká fakulta, 110 s. ISBN 80-7097-611-X<br>2. Obendrauf, V., Becker, R., Ganajová, M., Dunčková, I., Müllerová, V., Kövaryová, E.: Chémia dnes. Košice: Prírodovedecká fakulta UPJŠ, 2001. 80s. ISBN 80-7097-472-9<br>3. <a href="http://kekule.science.upjs.sk">http://kekule.science.upjs.sk</a>                                                                                                           |      |                                                      |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                      |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                      |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                      |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | B    | C                                                    | D   | E   | FX  |
| 93.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5.41 | 1.35                                                 | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                      |     |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                      |     |     |     |

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.  
Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |
| <b>Course ID:</b> ÚINF/<br>PES1/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Course name:</b> Pedagogical software |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 2 <b>Per study period:</b> 14 / 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
| <b>Conditions for course completion:</b><br>Assessment of preliminary assignments - a review of selected educational software, specification of own educational software.<br>In final exam students will demonstrate an overview of types, evaluation and life cycle of educational software in written form and they will present and defend their own final project - educational interactive hypertext project (containing motivation, interactive simulation, collection of tasks, vocabulary, autotest), respectively an educational game (labyrinth, pexeso, quiz, crossword, interactive story, simulation) including methodological guide for teachers. |                                          |
| <b>Learning outcomes:</b><br>- To acquire an overview of the types of educational software, its evaluation, process development and use in education.<br>- To create your own educational interactive hypertext, respectively an educational game including methodological guide for teachers.                                                                                                                                                                                                                                                                                                                                                                  |                                          |
| <b>Brief outline of the course:</b><br>Typology of educational software, its evaluation, process development and use in education. Creation of educational interactive hypertext (containing motivation, interactive simulation, collection of tasks, vocabulary, autotest), respectively an educational game (labyrinth, pexeso, quiz, crossword, interactive story, simulation) including methodological guide for teachers.                                                                                                                                                                                                                                  |                                          |
| <b>Recommended literature:</b><br>LACHS, V. Making Multimedia in the Classroom. London : RoutledgeFalmer, 2000. ISBN 0415216842.<br>GÖBEL, S. et al. Technologies for Interactive Digital Storytelling and Entertainment (LNCS 4326). Darmstadt : Springer, 2006. ISBN 3540499342.<br>SCHURMANN, E. M., PARDI, W. J. Dynamické HTML v akci. Praha : Computer Press, 2001. ISBN 807226401X.<br>KOSEK, J. Téměř vše o WWW. [online] Dostupné na internete: < <a href="http://www.kosek.cz">http://www.kosek.cz</a> >.                                                                                                                                             |                                          |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |

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|---------------------------------------------------------------------------------------------------------------------|-------|------|------|-------|------|
| <b>Course assessment</b>                                                                                            |       |      |      |       |      |
| Total number of assessed students: 94                                                                               |       |      |      |       |      |
| A                                                                                                                   | B     | C    | D    | E     | FX   |
| 23.4                                                                                                                | 28.72 | 26.6 | 8.51 | 10.64 | 2.13 |
| <b>Provides:</b> RNDr. Ľubomír Šnajder, PhD.                                                                        |       |      |      |       |      |
| <b>Date of last modification:</b> 03.02.2014                                                                        |       |      |      |       |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |       |      |      |       |      |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------|-------|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |       |                                             |       |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |       |                                             |       |     |     |
| <b>Course ID:</b> KPE/PP/14                                                                                                                                                        |       | <b>Course name:</b> Pedagogy and Psychology |       |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |       |                                             |       |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                        |       |                                             |       |     |     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |       |                                             |       |     |     |
| <b>Course level:</b> II.                                                                                                                                                           |       |                                             |       |     |     |
| <b>Prerequisites:</b> KPE/VPD/03 and KPPaPZ/PPGS/04 or KPPaPZ/PaSPP/09                                                                                                             |       |                                             |       |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                           |       |                                             |       |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                          |       |                                             |       |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                |       |                                             |       |     |     |
| <b>Recommended literature:</b>                                                                                                                                                     |       |                                             |       |     |     |
| <b>Course language:</b>                                                                                                                                                            |       |                                             |       |     |     |
| <b>Notes:</b>                                                                                                                                                                      |       |                                             |       |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 133                                                                                                                 |       |                                             |       |     |     |
| A                                                                                                                                                                                  | B     | C                                           | D     | E   | FX  |
| 16.54                                                                                                                                                                              | 30.83 | 28.57                                       | 21.05 | 1.5 | 1.5 |
| <b>Provides:</b>                                                                                                                                                                   |       |                                             |       |     |     |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                       |       |                                             |       |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |       |                                             |       |     |     |

## COURSE INFORMATION LETTER

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------|-----|------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |       |                                              |     |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |       |                                              |     |      |     |
| <b>Course ID:</b> KPE/<br>PVC/09                                                                                                                                                                        |       | <b>Course name:</b> Pedagogy of Leisure Time |     |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |       |                                              |     |      |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |       |                                              |     |      |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                 |       |                                              |     |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                |       |                                              |     |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |       |                                              |     |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |       |                                              |     |      |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |       |                                              |     |      |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |       |                                              |     |      |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |       |                                              |     |      |     |
| <b>Course language:</b>                                                                                                                                                                                 |       |                                              |     |      |     |
| <b>Notes:</b>                                                                                                                                                                                           |       |                                              |     |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 222                                                                                                                                      |       |                                              |     |      |     |
| A                                                                                                                                                                                                       | B     | C                                            | D   | E    | FX  |
| 75.68                                                                                                                                                                                                   | 16.67 | 6.31                                         | 0.0 | 1.35 | 0.0 |
| <b>Provides:</b> Mgr. Ján Juščák, PhD.                                                                                                                                                                  |       |                                              |     |      |     |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |       |                                              |     |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |       |                                              |     |      |     |

## COURSE INFORMATION LETTER

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                           |     |                                                                                                |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                              |     |                                                                                                |     |     |     |
| <b>Course ID:</b> Dek. PF UPJŠ/PPZ/13                                                                                                                                                           |     | <b>Course name:</b> Personality Development and Key Competences for Success on a Labour Market |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b> 14s<br><b>Course method:</b> present |     |                                                                                                |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                     |     |                                                                                                |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 1., 3.                                                                                                                                     |     |                                                                                                |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                        |     |                                                                                                |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                           |     |                                                                                                |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                        |     |                                                                                                |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                       |     |                                                                                                |     |     |     |
| <b>Brief outline of the course:</b>                                                                                                                                                             |     |                                                                                                |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                  |     |                                                                                                |     |     |     |
| <b>Course language:</b>                                                                                                                                                                         |     |                                                                                                |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                   |     |                                                                                                |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 39                                                                                                                               |     |                                                                                                |     |     |     |
| A                                                                                                                                                                                               | B   | C                                                                                              | D   | E   | FX  |
| 100.0                                                                                                                                                                                           | 0.0 | 0.0                                                                                            | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> RNDr. Peter Stefányi, PhD.                                                                                                                                                     |     |                                                                                                |     |     |     |
| <b>Date of last modification:</b> 17.02.2014                                                                                                                                                    |     |                                                                                                |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                             |     |                                                                                                |     |     |     |

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------|-------|------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                  |       |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                  |       |      |     |
| <b>Course ID:</b> ÚGE/<br>FGE/13                                                                                                                                                                                           |       | <b>Course name:</b> Physical Geography of Europe |       |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present |       |                                                  |       |      |     |
| <b>Number of credits:</b> 4                                                                                                                                                                                                |       |                                                  |       |      |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                    |       |                                                  |       |      |     |
| <b>Course level:</b> I., II.                                                                                                                                                                                               |       |                                                  |       |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                  |       |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                  |       |      |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                  |       |      |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                  |       |      |     |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                  |       |      |     |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                  |       |      |     |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                  |       |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 92                                                                                                                                                          |       |                                                  |       |      |     |
| A                                                                                                                                                                                                                          | B     | C                                                | D     | E    | FX  |
| 33.7                                                                                                                                                                                                                       | 32.61 | 18.48                                            | 13.04 | 2.17 | 0.0 |
| <b>Provides:</b> doc. RNDr. Zdenko Hochmuth, CSc., RNDr. Katarína Kozáková, PhD.                                                                                                                                           |       |                                                  |       |      |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                               |       |                                                  |       |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                        |       |                                                  |       |      |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                         |
| <b>Course ID:</b> ÚGE/<br>POL/13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Course name:</b> Political geography and geopolitics |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 2 <b>Per study period:</b> 14 / 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                         |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |
| <b>Conditions for course completion:</b><br>active participation, works during semester, final test. The student is awarded a grade provided they attend the classes regularly, submit and present the seminar work and write a final test with a value 50 % at least - grade E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| <b>Brief outline of the course:</b><br>Political geography as a science, world political map, state as a political region, states in the world, state recognition, political and geographical classification of states, state boundaries, enclaves and exclaves, international sea law, international rivers, political and geographical aspects of air and cosmic space, Arctic and Antarctica. Development of world political map. Geopolitics - English, American, German and Russian geopolitics - main concepts and doctrines                                                                                                                                                                                                                                                          |                                                         |
| <b>Recommended literature:</b><br>BLACKSELL, M. 2006: Political Geography. Routledge. ISBN 0-415-24668-7<br>GURŇÁK, D., BLAŽÍK, T., LAUKO, V. 2007: Úvod do politickej geografie, geopolitiky a regionálnej geografie, Bratislava: UK, 140 s. ISBN 978-80-969338-84<br>FŇUKAL, M. Politická geografie (pracovní verze určená k ověření ve výuce). Katedra geografie Univerzity Palackého v Olomouci. Dostupné na internete.<br>IŠTOK, R. 2004: Politická geografia a geopolitika, Prešov. 392 s. ISBN 80-8068-313-1<br>IŠTOK, R., KOZIAK, T., HUDEČEK, T., MATTOVÁ, I. 2010: Geopolitika, Globalistika, Medzinárodná politika. Komentovaný výber textov. 357 s. ISBN 978-80-5550-164-2<br>ŠLACHTA, M. 2007: Ohniska napětí ve světě. NČGS: Kartografie Praha, 192 s. ISBN 978-80-7011-926-6 |                                                         |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |

|                                                                                                                     |      |       |      |      |     |
|---------------------------------------------------------------------------------------------------------------------|------|-------|------|------|-----|
| <b>Course assessment</b>                                                                                            |      |       |      |      |     |
| Total number of assessed students: 70                                                                               |      |       |      |      |     |
| A                                                                                                                   | B    | C     | D    | E    | FX  |
| 65.71                                                                                                               | 8.57 | 15.71 | 7.14 | 2.86 | 0.0 |
| <b>Provides:</b> RNDr. Stela Csachová, PhD.                                                                         |      |       |      |      |     |
| <b>Date of last modification:</b> 11.02.2014                                                                        |      |       |      |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |      |       |      |      |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |
| <b>Course ID:</b> ÚGE/<br>PVS2/06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Course name:</b> Population development of world |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |
| <b>Prerequisites:</b> ÚGE/GOB1/07 or ÚGE/OBY2/03 or ÚGE/AZG1/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |
| <b>Conditions for course completion:</b><br>Papers on regional principles, building of database about states of world and statistical dates construction – graphs and thematic maps. All introduced condition must by fulfilled minimally on the level 60 %.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |
| <b>Learning outcomes:</b><br>Gaining general knowledge and recognising demographic naturallity in megadimensional level (continents and regions of world).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |
| <b>Brief outline of the course:</b> <ol style="list-style-type: none"> <li>1. Demogeography and its object, and the object of study. Population and its geographical attributes, phenomena and processes related to it and determining development.</li> <li>2. Anthropogeny and initial spread - the migration of mankind.</li> <li>3. Population patterns at deferent regional levels (specific emphasis on megalevel – world and regions of the world)</li> <li>4. Basic demogeographic phenomena in the global context.</li> <li>5. Birth rate and a specific rate in the world - regionalization.</li> <li>6. Fertility and its specific rates in the world - regionalization. Fertility and its specific rates in the world - regionalization.</li> <li>7. Morbidity and the specific rates in the world – regionalization</li> <li>8. Mortality and its specific rates in the world - regionalization.</li> <li>9. Marriage and its specific rates in the world - regionalization.</li> <li>10. Divorce and its specific rates in the world - regionalization.</li> <li>11. The total increase in world population and its geographic differentiation.</li> <li>12. Structure of world population by cultural attributes.</li> <li>13. Structure of world population by social and economic attributes.</li> <li>14. Global migration movements and trends of mankind.</li> <li>15. Globalization and population development.</li> </ol> |                                                     |
| <b>Recommended literature:</b><br>MLÁDEK, J. 1992: Základy geografie obyvateľstva. SPN Bratislava.230 s.<br>KOSIŇSKI, L. 1967: Geografia ludności. PWN Warszawa, 236 s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |

PODOLÁK, P. 2007: Migrácie vo svete. Forum statisticum slovacum 3. SŠDS Bratislava, s. 193-196.  
 VALLIN, J. 1992: Světové obyvatelstvo. Academia Praha, 148 s. ISBN 80-200-0437-8  
 WATTENBERG, B., J. 2004: How the New Demography of Depopulation Will Shape Our Future. Chicago: R. Dee, ISBN 1-56663-606-X  
 ČASOPISY: GEOGRAFIA, DEMOGRAFIE  
 Výročné správy Populačného fondu OSN (UNFPA)  
 World Population Data Sheet 2007  
 www.rozvojovevzdelavanie.sk  
 www stránky: www.fao.com, www.infoplease.com, www.  
 www.census.com, www.who.com, www.statistics.sk

**Course language:**

Slovak

**Notes:**

**Course assessment**

Total number of assessed students: 151

| A     | B     | C     | D    | E    | FX  |
|-------|-------|-------|------|------|-----|
| 47.68 | 35.76 | 13.25 | 2.65 | 0.66 | 0.0 |

**Provides:** RNDr. Janetta Nestorová-Dická, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------|-------|-------|------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                           |       |       |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                           |       |       |      |
| <b>Course ID:</b><br>KPPaPZ/PPGS/04                                                                                                                                                                                        |       | <b>Course name:</b> Psychology and Educational Psychology |       |       |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 2 <b>Per study period:</b> 28 / 28<br><b>Course method:</b> present |       |                                                           |       |       |      |
| <b>Number of credits:</b> 5                                                                                                                                                                                                |       |                                                           |       |       |      |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                    |       |                                                           |       |       |      |
| <b>Course level:</b> II.                                                                                                                                                                                                   |       |                                                           |       |       |      |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                           |       |       |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                           |       |       |      |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                           |       |       |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                           |       |       |      |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                           |       |       |      |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                           |       |       |      |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                           |       |       |      |
| <b>Course assessment</b><br>Total number of assessed students: 790                                                                                                                                                         |       |                                                           |       |       |      |
| A                                                                                                                                                                                                                          | B     | C                                                         | D     | E     | FX   |
| 10.13                                                                                                                                                                                                                      | 17.22 | 21.39                                                     | 22.03 | 24.81 | 4.43 |
| <b>Provides:</b> Prof. PhDr. Oľga Orosová, CSc., PhDr. Karolína Barinková, PhD., Mgr. Lucia Hricová, PhDr. Anna Janovská, PhD.                                                                                             |       |                                                           |       |       |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                                               |       |                                                           |       |       |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                        |       |                                                           |       |       |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Course ID:</b> ÚGE/AFAU/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Course name:</b> Regional geography of Africa and Australia |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                |
| <b>Conditions for course completion:</b><br>Exam. Only students who reached weighted average of continuous grading at least 60% may sign up for the final exam. Continuous grading consists of written tests and orientation in the blank maps (70% of continuous grading) and the presentation of assigned topic (30%). At the final grading, the weight of exam is 70% and the weight of continuous grading is 30%). To obtain A grade, weighted average of the both parts of grading must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtains less than 50 % from any of both parts of examination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                |
| <b>Learning outcomes:</b><br>Student acquires comprehensive knowledge of the continents and their regions, understands the geographic phenomena and is able to interpret them in a context of wider vertical and horizontal relations with other geographic phenomena.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |
| <b>Brief outline of the course:</b><br>Basic geographic definition and relief in Africa, Australia and Oceania; Tectonic movements, geological evolution, minerals and formation of the current orography of continents, main geomorphologic units; Geographic conditions of climate and hydrosphere (the influence of individual factors in shaping climatic conditions, basic climatic zones, river system, drainage areas, drainless areas, lakes); Peco-geographic and bio-geographic conditions (soil types and their geographical distribution, phytogeographical regions, vegetation zones, zoogeographical regions, nature protection.); Historical and political development (the oldest civilizations and ancient migration, ancient and medieval empires, European colonization, the collapse of colonial system, current political situation, integration groups); Population and settlements (population growth, racial and ethnic structure of population, linguistic groups, natural growth and migration, settlements and urbanization); Economy (economy growth, general nature of economy, types of countries according to the nature of economy, current statistic indicators, individual sectors of economy, foreign trade); Detailed characterization of selected regions. |                                                                |
| <b>Recommended literature:</b><br>HOBBS, J. J. 2010: Fundaments of World Regional Geography, 2nd edition. Belmont (Brooks/Cole), 438 p.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |

DE BLIJ, H. J. et al: 2013: The World Today - Concepts and Regions in Geography, 6th edition. New York (Wiley), 528 p.

KOVÁŘ, M. 2004: Afrika a Arabský poloostrov. Ostrava (Ostravská Univerzita, Přírodovědecká fakulta), 71 s.

ČEMAN, R. 2006: Zemepisný atlas Svet. Bratislava (Mapa Slovakia), 256 s.

EPERJEŠI, M. 2007: Vybrané problémy Afriky na začiatku 21. storočia, diplomová práca, dostupné on-line na: <http://diplomovka.sme.sk/zdroj/3202.pdf>, 98 s.

LIPKOVÁ, Ľ. 2000: Medzinárodné hospodárske vzťahy. Bratislava (Sprint), 238 s.

**Course language:**

Slovak and English

**Notes:**

**Course assessment**

Total number of assessed students: 450

| A     | B     | C    | D     | E    | FX   |
|-------|-------|------|-------|------|------|
| 28.89 | 23.78 | 22.0 | 15.78 | 9.11 | 0.44 |

**Provides:** Mgr. Ladislav Novotný, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                   |
| <b>Course ID:</b> ÚGE/AMG/13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Course name:</b> Regional geography of America |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   |
| <b>Prerequisites:</b> ÚGE/AZG1/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   |
| <b>Conditions for course completion:</b><br>Exam. Only students who reached weighted average of continuous grading at least 60% may sign up for the final exam. Continuous grading consists of written tests and orientation in the blank maps (70% of continuous grading) and the presentation of assigned topic (30%). At the final grading, the weight of exam is 70% and the weight of continuous grading is 30%). To obtain A grade, weighted average of the both parts of grading must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtains less than 50 % from any of both parts of examination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   |
| <b>Learning outcomes:</b><br>Student acquires comprehensive knowledge of the continent and its regions, understands the geographic phenomena and is able to interpret them in a context of wider vertical and horizontal relations with other geographic phenomena.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |
| <b>Brief outline of the course:</b><br>Basic geographical definition and relief in Americas (location of continent, tectonic movements and shaping of recent forms of continent, geological evolution, minerals and formation of current relief, basic geomorphological units); Geographic conditions of climate and hydrosphere (the influence of individual factors in shaping climatic conditions, basic climatic zones, river system, drainage areas, endorheic basins, lakes); Peto-geographic and bio-geographic conditions (soil types and their geographical distribution, phyto-geographical regions, vegetation zones, zoo-geographical regions, nature protection.); Historical and political development (the oldest civilizations and ancient migration, ancient and medieval empires, European colonization, the collapse of colonial system, current political situation, integration groups); Population and settlements (population growth, racial and ethnic structure of population, linguistic groups, natural growth and migration, settlements and urbanization); Economy (economy growth, general nature of economy, types of countries according to the nature of economy, current statistic indicators, individual sectors of economy, foreign trade); Detailed characterization of selected regions. |                                                   |
| <b>Recommended literature:</b><br>KENT, R. B. 2006: Latin America – Regions and People. New York (The Guilford Press), 422 p.<br>HARDWICK, S., SHELLEY, F., HOLTGRIEVE, D. 2013: The Geography of North America – Environment, Culture, Economy, 2nd edition. Glenview (Pearson), 428 p.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   |

VEBLEN, T., YOUNG, K., ORME, A. eds. 2007: The Physical Geography of South America. Oxford (University Press), 361 p.

BAAR, V. 2002: Národy na prahu 21. století. Emancipace nebo nacionalismus? Ostrava (Ostravská univerzita), 416 s.

ČEMAN, R. 2006: Zemepisný atlas Svet. Bratislava (Mapa Slovakia), 256 s.

DE BLIJ, H. J. et al: 2013: The World Today - Concepts and Regions in Geography, 6th edition. New York (Wiley), 528 p.

HOBBS, J. J. 2010: Fundaments of World Regional Geography, 2nd edition. Belmont (Brooks/Cole), 438 p.

SLOBODNÍKOVÁ, O. 2012: Regionálna geografia Kanady. 2. vydanie. Banská Bystrica (Dali), 344 s.

**Course language:**  
Slovak and English

**Notes:**

**Course assessment**

Total number of assessed students: 135

| A     | B     | C     | D     | E    | FX  |
|-------|-------|-------|-------|------|-----|
| 21.48 | 27.41 | 28.89 | 13.33 | 8.89 | 0.0 |

**Provides:** Mgr. Ladislav Novotný, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |
| <b>Course ID:</b> ÚGE/<br>AZG1/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Course name:</b> Regional geography of Asia |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |
| <b>Conditions for course completion:</b><br>Exam. Only students who reached weighted average of continuous grading at least 60% may sign up for the final exam. Continuous grading consists of written tests and orientation in the blank maps (70% of continuous grading) and the presentation of assigned topic (30%). At the final grading, the weight of exam is 70% and the weight of continuous grading is 30%). To obtain A grade, weighted average of the both parts of grading must reach at least 90%, To obtain B it is 80%, for C it is 70%, for D 60% and for E 50%. Credits shall not be granted to a student who obtains less than 50 % from any of both parts of examination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| <b>Learning outcomes:</b><br>Student acquires comprehensive knowledge of the continent and its regions, understands the geographic phenomena and is able to interpret them in a context of wider vertical and horizontal relations with other geographic phenomena.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |
| <b>Brief outline of the course:</b><br>Basic geographical definition and relief in Asia (location of continent, tectonic movements and shaping of recent forms of continent, geological evolution, minerals and formation of current relief, basic geomorphological units); Geographic conditions of climate and hydrosphere (the influence of individual factors in shaping climatic conditions, basic climatic zones, river system, drainage areas, endorheic basins, lakes); Pedo-geographic and bio-geographic conditions (soil types and their geographical distribution, phyto-geographical regions, vegetation zones, zoo-geographical regions, nature protection.); Historical and political development (the oldest civilizations and ancient migration, ancient and medieval empires, European colonization, the collapse of colonial system, current political situation, integration groups); Population and settlements (population growth, racial and ethnic structure of population, linguistic groups, natural growth and migration, settlements and urbanization); Economy (economy growth, general nature of economy, types of countries according to the nature of economy, current statistic indicators, individual sectors of economy, foreign trade); Detailed characterization of selected regions. |                                                |
| <b>Recommended literature:</b><br>DE BLIJ, H. J. et al: 2013: The World Today - Concepts and Regions in Geography, 6th edition. New York (Wiley), 528 p.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |

HOBBS, J. J. 2010: Fundaments of World Regional Geography, 2nd edition. Belmont (Brooks/Cole), 438 p.

WEIGHTMAN, B. 2010: Dragons and Tigers – A Geography of South, East and Southeast Asia, 3rd edition. Hoboken (Wiley), 523 p.

BAAR, V. 2002: Národy na prahu 21. století. Emancipace nebo nacionalismus? Ostrava (Ostravská univerzita), 416 s.

ČEMAN, R. 2006: Zemepisný atlas Svet. Bratislava (Mapa Slovakia), 256 s.

KRUPA, V. et al. 1999: Geopolitické špecifiká regiónov sveta - Afrika a Ázia. Bratislava (Univerzita Komenského), 247 s.

RÁCOVÁ, A. (ed.) 2006: Štát a náboženstvo v Ázii a Afrike. Bratislava (Ústav orientistiky SAV), 233 s.

SLOBODNÍK, M., KOVÁCS, A. (ed.) 2006: Politická moc versus náboženská autorita v Ázii. Bratislava (Chronos), 303 s.

**Course language:**

Slovak and English

**Notes:**

**Course assessment**

Total number of assessed students: 348

| A     | B    | C     | D     | E     | FX   |
|-------|------|-------|-------|-------|------|
| 25.86 | 25.0 | 22.41 | 12.36 | 14.08 | 0.29 |

**Provides:** Mgr. Ladislav Novotný, PhD.

**Date of last modification:** 11.02.2014

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------|-------|-------|------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                              |       |                                                                                |       |       |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                 |       |                                                                                |       |       |      |
| <b>Course ID:</b> ÚGE/RDG/14                                                                                                                                                       |       | <b>Course name:</b> Regional geography of the world and didactics of geography |       |       |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present |       |                                                                                |       |       |      |
| <b>Number of credits:</b> 1                                                                                                                                                        |       |                                                                                |       |       |      |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                               |       |                                                                                |       |       |      |
| <b>Course level:</b> II.                                                                                                                                                           |       |                                                                                |       |       |      |
| <b>Prerequisites:</b> ÚGE/FGE/13 and ÚGE/HGE/13 and ÚGE/AZG1/08 and ÚGE/DIG/08 and ÚGE/AMG/13 and ÚGE/AFAU/12                                                                      |       |                                                                                |       |       |      |
| <b>Conditions for course completion:</b>                                                                                                                                           |       |                                                                                |       |       |      |
| <b>Learning outcomes:</b>                                                                                                                                                          |       |                                                                                |       |       |      |
| <b>Brief outline of the course:</b>                                                                                                                                                |       |                                                                                |       |       |      |
| <b>Recommended literature:</b>                                                                                                                                                     |       |                                                                                |       |       |      |
| <b>Course language:</b>                                                                                                                                                            |       |                                                                                |       |       |      |
| <b>Notes:</b>                                                                                                                                                                      |       |                                                                                |       |       |      |
| <b>Course assessment</b><br>Total number of assessed students: 29                                                                                                                  |       |                                                                                |       |       |      |
| A                                                                                                                                                                                  | B     | C                                                                              | D     | E     | FX   |
| 27.59                                                                                                                                                                              | 27.59 | 13.79                                                                          | 17.24 | 10.34 | 3.45 |
| <b>Provides:</b>                                                                                                                                                                   |       |                                                                                |       |       |      |
| <b>Date of last modification:</b> 14.02.2014                                                                                                                                       |       |                                                                                |       |       |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                |       |                                                                                |       |       |      |

## COURSE INFORMATION LETTER

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                     |                                              |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                        |                                              |
| <b>Course ID:</b> ÚTVŠ/<br>ÚTVŠ/CM/13                                                                                                                                                                     | <b>Course name:</b> Seaside Aerobic Exercise |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 36 <b>Per study period:</b> 504<br><b>Course method:</b> present |                                              |
| <b>Number of credits:</b> 2                                                                                                                                                                               |                                              |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                      |                                              |
| <b>Course level:</b> I., II.                                                                                                                                                                              |                                              |
| <b>Prerequisites:</b>                                                                                                                                                                                     |                                              |
| <b>Conditions for course completion:</b>                                                                                                                                                                  |                                              |
| <b>Learning outcomes:</b>                                                                                                                                                                                 |                                              |
| <b>Brief outline of the course:</b>                                                                                                                                                                       |                                              |
| <b>Recommended literature:</b>                                                                                                                                                                            |                                              |
| <b>Course language:</b>                                                                                                                                                                                   |                                              |
| <b>Notes:</b>                                                                                                                                                                                             |                                              |
| <b>Course assessment</b><br>Total number of assessed students: 7                                                                                                                                          |                                              |
| abs                                                                                                                                                                                                       | n                                            |
| 57.14                                                                                                                                                                                                     | 42.86                                        |
| <b>Provides:</b> Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.                                                                                                                                        |                                              |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                              |                                              |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                    |                                              |

## COURSE INFORMATION LETTER

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                          |     |                                                             |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                             |     |                                                             |     |     |     |
| <b>Course ID:</b> ÚCHV/<br>VKACH/03                                                                                                                                                                                                            |     | <b>Course name:</b> Selected Topics in Analytical Chemistry |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                     |     |                                                             |     |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                    |     |                                                             |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                        |     |                                                             |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                       |     |                                                             |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                          |     |                                                             |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                       |     |                                                             |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                      |     |                                                             |     |     |     |
| <b>Brief outline of the course:</b><br>Classical methods of analytical chemistry - volumetric analysis, gravimetry. Review of analytical instrumental methods. New analytical techniques for characterization and identifications of analytes. |     |                                                             |     |     |     |
| <b>Recommended literature:</b><br>Skoog D.A.: Principles of Instrumental Analysis. Saunders Col. Publishing, New York 1985.<br>D.Harvey: Modern Analytical Chemistry. McGraw Hill, Boston, 2000.                                               |     |                                                             |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                        |     |                                                             |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                  |     |                                                             |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 3                                                                                                                                                                               |     |                                                             |     |     |     |
| A                                                                                                                                                                                                                                              | B   | C                                                           | D   | E   | FX  |
| 100.0                                                                                                                                                                                                                                          | 0.0 | 0.0                                                         | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Tat'ána Gondová, CSc.                                                                                                                                                                                              |     |                                                             |     |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                   |     |                                                             |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                            |     |                                                             |     |     |     |

## COURSE INFORMATION LETTER

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------|------|------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                            |      |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                            |      |      |     |
| <b>Course ID:</b> ÚCHV/<br>VKA/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | <b>Course name:</b> Selected Topics in Inorganic Chemistry |      |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                     |       |                                                            |      |      |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                            |      |      |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                            |      |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                            |      |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                            |      |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                            |      |      |     |
| <b>Learning outcomes:</b><br>To make the acquaintance of actual status of research in inorganic chemistry.                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                            |      |      |     |
| <b>Brief outline of the course:</b><br>Cu-Zn heterobimetallic compounds: preparation, structure and properties.<br>Biological and physicochemical properties of some zinc complex compounds with bioactive ligands.<br>Pentacoordinated Copper(II) compounds: a trigonal bipyramid or a tetragonal pyramid?<br>Structure, spectral and thermal properties of cyanoargentates.<br>Hydrothermal synthesis in inorganic chemistry.<br>Materials on the basis of inclusion compounds, their structure, properties and application. |       |                                                            |      |      |     |
| <b>Recommended literature:</b><br>1. Greenwood, N.N., Earnshaw, A.: Chemistry of the elements I and II, Pergamon Press N.Y., 1993<br>2. J. E. Huheey, E.A. Keiter, R.L. Keiter: Inorganic Chemistry: Principles of Structure and Reactivity (4th Edition, Addison-Wesley Pub Co, 4th edition, 1997                                                                                                                                                                                                                             |       |                                                            |      |      |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                            |      |      |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                            |      |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 197                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                            |      |      |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B     | C                                                          | D    | E    | FX  |
| 41.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 27.41 | 17.77                                                      | 8.12 | 5.08 | 0.0 |
| <b>Provides:</b> prof. RNDr. Juraj Černák, CSc., prof. RNDr. Katarína Györyová, DrSc., doc. RNDr. Vladimír Zelenák, PhD., doc. RNDr. Zuzana Vargová, Ph.D., doc. RNDr. Ivan Potočník, PhD., doc. RNDr. Jozef Chomič, CSc., doc. RNDr. Mária Reháková, CSc., RNDr. Juraj Kuchár, PhD.                                                                                                                                                                                                                                           |       |                                                            |      |      |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                            |      |      |     |

**Approved:** doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.  
Volodymyr Starosta, DrSc.

## COURSE INFORMATION LETTER

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------|-------|------|-----|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                          |       |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                          |       |      |     |
| <b>Course ID:</b> ÚCHV/<br>VKOCH/03                                                                                                                                                                                        |       | <b>Course name:</b> Selected topics in organic chemistry |       |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present |       |                                                          |       |      |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                |       |                                                          |       |      |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                    |       |                                                          |       |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                                   |       |                                                          |       |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                          |       |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                          |       |      |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                          |       |      |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                          |       |      |     |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                          |       |      |     |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                          |       |      |     |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                          |       |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 74                                                                                                                                                          |       |                                                          |       |      |     |
| A                                                                                                                                                                                                                          | B     | C                                                        | D     | E    | FX  |
| 35.14                                                                                                                                                                                                                      | 17.57 | 21.62                                                    | 17.57 | 8.11 | 0.0 |
| <b>Provides:</b> doc. RNDr. Ján Imrich, CSc.                                                                                                                                                                               |       |                                                          |       |      |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                               |       |                                                          |       |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                     |       |                                                          |       |      |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                       |      |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                       |      |     |     |
| <b>Course ID:</b> ÚGE/SDG/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>Course name:</b> Seminar of didactics of geography |      |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                       |      |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                       |      |     |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                       |      |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                       |      |     |     |
| <b>Prerequisites:</b> ÚGE/DIG/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                       |      |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                       |      |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                       |      |     |     |
| <b>Brief outline of the course:</b><br>Teaching geography at primary and secondary schools, methods and forms of geography teaching, relationship to students, climate at class, geography adjusted to the age of students, individual geography subject teaching, interdisciplinary relations. Methodology of basic geographical disciplines of physical, human and regional geographies.                                                                                                                                                                                                                                             |       |                                                       |      |     |     |
| <b>Recommended literature:</b><br>ČIŽMÁROVÁ, K. 2000: Didaktika geografie I. Banská Bystrica: Univerzita Mateja Bela<br>ČIŽMÁROVÁ, K. 2006: Didaktika II. Banská Bystrica: Univerzita Mateja Bela<br>GAVORA, P. 2011: Akí sú moji žiaci. Nitra: Enigma<br>KANCÍR, J., MADZIKOVÁ, A. 2011: Didaktika vlastivedy. Prešov: Prešovská univerzita<br>KOLAŘÍK, M. 2011: Interakční psychologický výcvik. Praha: Grada<br>KÚNHLOVÁ, H. 1999: Kapitoly z didaktiky geografie, Praha: Univerzita Karlova<br>LIKAVSKÝ, P. 2006: Všeobecná didaktika geografie. Bratislava: Univerzita Komenského učebnice Geografie pre základné a stredné školy |       |                                                       |      |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                       |      |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                       |      |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                       |      |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | B     | C                                                     | D    | E   | FX  |
| 55.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32.22 | 7.41                                                  | 5.19 | 0.0 | 0.0 |
| <b>Provides:</b> RNDr. Stela Csachová, PhD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                       |      |     |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                       |      |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                       |      |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |                                                                                           |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |                                                                                           |     |
| <b>Course ID:</b><br>KPPaPZ/SPVKE/07                                                                                                                                                                    | <b>Course name:</b> Social-Psychological Training of Coping with Critical Life Situations |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |                                                                                           |     |
| <b>Number of credits:</b> 2                                                                                                                                                                             |                                                                                           |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                 |                                                                                           |     |
| <b>Course level:</b> II.                                                                                                                                                                                |                                                                                           |     |
| <b>Prerequisites:</b>                                                                                                                                                                                   |                                                                                           |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                |                                                                                           |     |
| <b>Learning outcomes:</b>                                                                                                                                                                               |                                                                                           |     |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |                                                                                           |     |
| <b>Recommended literature:</b>                                                                                                                                                                          |                                                                                           |     |
| <b>Course language:</b>                                                                                                                                                                                 |                                                                                           |     |
| <b>Notes:</b>                                                                                                                                                                                           |                                                                                           |     |
| <b>Course assessment</b><br>Total number of assessed students: 101                                                                                                                                      |                                                                                           |     |
| abs                                                                                                                                                                                                     | n                                                                                         | z   |
| 97.03                                                                                                                                                                                                   | 2.97                                                                                      | 0.0 |
| <b>Provides:</b>                                                                                                                                                                                        |                                                                                           |     |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |                                                                                           |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                     |                                                                                           |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                 |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                 |     |     |     |
| <b>Course ID:</b> ÚCHV/SPC1a/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | <b>Course name:</b> Special practising the school experiments I |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 4 <b>Per study period:</b> 56<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                 |     |     |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                 |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                 |     |     |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                 |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                 |     |     |     |
| <b>Conditions for course completion:</b><br>Continuous checking of theoretical preparation, development of report and presentation.<br>Semestral test                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                 |     |     |     |
| <b>Learning outcomes:</b><br>The aim of this subject is learn of basic experimental skillfulness in techniques in school experiment with accent on safety and health protections of students at scholar experimental work.                                                                                                                                                                                                                                                                                                                                               |       |                                                                 |     |     |     |
| <b>Brief outline of the course:</b><br>Selection and arrangement of chemical experiments as the demonstrative experiments, or pupils ' experiments to themes basic laws of chemistry, determination of constant physicochemical, factors influence speed of chemical reaction, experiments from electrochemistry, creating gases; preparation works characters of quantitative, interesting experiments of everyday life.                                                                                                                                                |       |                                                                 |     |     |     |
| <b>Recommended literature:</b><br>1. Ganajová, M., Dzurillová, M. 2005: Školské pokusy z chémie I. UPJŠ v Košiciach, Prírodovedecká fakulta, 140 s. ISBN 80-7097-617-9<br>2. Ganajová, M. 2005: Chemické experimenty s vybranými produktami z obchodu. UPJŠ v Košiciach, Prírodovedecká fakulta, 110 s. ISBN 80-7097-611-X<br>3. Tomeček, O.: Školská experimentálna semimikrosúprava. Učebné pomôcky Banská Bystrica 1980<br>4. The primary and secondary textbook of chemistry<br>5. <a href="http://kekule.science.upjs.sk">http://kekule.science.upjs.sk</a> – (ŠIS) |       |                                                                 |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                 |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                 |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                 |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | B     | C                                                               | D   | E   | FX  |
| 61.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 29.83 | 7.18                                                            | 1.1 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Mária Ganajová, CSc., RNDr. Milena Kristofová                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                 |     |     |     |

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| <b>Date of last modification:</b> 03.02.2014                                                                        |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc. |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                  |
| <b>Course ID:</b> ÚCHV/<br>SPC1b/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Course name:</b> Special practising the school experiments II |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 3 <b>Per study period:</b> 42<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |
| <b>Conditions for course completion:</b><br>The knowledge of the reaction mechanism of the main tests of several organic compounds derivatives and the ability of their laboratory realization are required. Written tests: more than 50% from each one is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  |
| <b>Learning outcomes:</b><br>The students will become familiar with the basic laboratory skills and techniques that they can apply in demonstrating experiments in their future career as a teacher. The rules of healthy and safety laboratory work are emphasised.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  |
| <b>Brief outline of the course:</b><br>Qualitative analysis of organic compounds<br>Alkanes - preparation of methane<br>Alkenes preparation and addition reactions of ethene, addition reaction of $\beta$ -carotene<br>Alkynes, Aromatic hydrocarbons and their derivatives – preparation of benzene, aromatic electrophilic substitution reactions – nitration of toluene and naphthalene, preparation of benzyl bromide<br>Halogenoderivatives – preparation of chloroethane, chloroform, methyl iodide, iodoform<br>Hydroxoderivatives – properties and reactivity - methanol, ethanol, ethylene glycol, glycerol, preparation of sodium ethanolate and sodium phenoxide, bromation of phenol, colour reactions of phenols, naphthols<br>Oxoderivatives – diethyl ether – preparation and properties, Aldehydes and Ketones – preparation of formaldehyde, oxidation of formaldehyde, acetone – addition of sodium hydrogensulfite<br>Carboxylic acids and their derivatives – preparation and properties of soap<br>Natural compounds – carbohydrates, proteins, amino acids, lipids<br>Factors that affect the rate of chemical reactions – temperature and concentration<br>Isolation of the fragrant components using steam distillation |                                                                  |
| <b>Recommended literature:</b><br>1. Smik, L., Merva, L., Brutovská, A: Technika a didaktika školských pokusov, Vyd.Rektorát UPJŠ,Košice,1988<br>2. Smik, L. a kol.: Špeciálna didaktika chémie II., Vyd.Rektorát UPJŠ,Košice, 1984<br>3. Internal scripts -Školské pokusy z organickej chémie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                  |

|                                                                                                                                     |       |      |       |     |     |
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| <b>Course language:</b><br>slovak                                                                                                   |       |      |       |     |     |
| <b>Notes:</b>                                                                                                                       |       |      |       |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 160                                                                  |       |      |       |     |     |
| A                                                                                                                                   | B     | C    | D     | E   | FX  |
| 33.75                                                                                                                               | 29.38 | 20.0 | 11.88 | 5.0 | 0.0 |
| <b>Provides:</b> RNDr. Jana Špaková Raschmanová, PhD., RNDr. Ján Elečko, RNDr. Margaréta Takácsová, RNDr. Kvetoslava Stanková, PhD. |       |      |       |     |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                        |       |      |       |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                 |       |      |       |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |      |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                         |       |                                        |      |      |     |
| <b>Course ID:</b> ÚCHV/<br>STOX/04                                                                                                                                                                                                                                                                                                                                                                                         |       | <b>Course name:</b> Special Toxicology |      |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                 |       |                                        |      |      |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                |       |                                        |      |      |     |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                                                                                                                                    |       |                                        |      |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                        |      |      |     |
| <b>Prerequisites:</b> ÚCHV/ZTOX/04                                                                                                                                                                                                                                                                                                                                                                                         |       |                                        |      |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                                                                                                   |       |                                        |      |      |     |
| <b>Learning outcomes:</b><br>Goal of the course is to provide the students with a knowledge of toxicology of organic and inorganic compounds, drugs, food additives, e.g., safety of substances, designation of substances in accordance of norm of European Union and order of Government of Slovak Republic.                                                                                                             |       |                                        |      |      |     |
| <b>Brief outline of the course:</b><br>Goal of the course is to provide the students with a knowledge of toxicology of organic and inorganic compounds, drugs, food additives, e.g., safety of substances, designation of substances in accordance of norm of European Union and order of Government of Slovak Republic.                                                                                                   |       |                                        |      |      |     |
| <b>Recommended literature:</b><br>J. A. Timbrell: Introduction to Toxicology, Taylor and Francis, London 1989.<br>H. Kenneth Dillon, Mat H. Ho: Biological Monitoring of Exposure to Chemicals: Metals, John Wiley & Sons, New York 1991.<br>V. E. Forbes, T. L. Forbes: Toxicology in Theory and Practice, Chapman Hall, London 1994.<br>H. M. Stahr: Analytical Methods in Toxicology, John Wiley & Sons, New York 1991. |       |                                        |      |      |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                        |      |      |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                        |      |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 192                                                                                                                                                                                                                                                                                                                                                         |       |                                        |      |      |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                          | B     | C                                      | D    | E    | FX  |
| 50.52                                                                                                                                                                                                                                                                                                                                                                                                                      | 23.96 | 17.19                                  | 6.25 | 2.08 | 0.0 |
| <b>Provides:</b> prof. RNDr. Katarína Györyová, DrSc.                                                                                                                                                                                                                                                                                                                                                                      |       |                                        |      |      |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                                                                                                               |       |                                        |      |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                        |       |                                        |      |      |     |

## COURSE INFORMATION LETTER

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------|
| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                  |                                          |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                     |                                          |       |
| <b>Course ID:</b> ÚTVŠ/<br>TVa/11                                                                                                                                                                                                                                                                      | <b>Course name:</b> Sports Activities I. |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                |                                          |       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                            |                                          |       |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                |                                          |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                                                                                                                                    |                                          |       |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                  |                                          |       |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                               |                                          |       |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                              |                                          |       |
| <b>Brief outline of the course:</b>                                                                                                                                                                                                                                                                    |                                          |       |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                         |                                          |       |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                |                                          |       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                          |                                          |       |
| <b>Course assessment</b><br>Total number of assessed students: 7160                                                                                                                                                                                                                                    |                                          |       |
| abs                                                                                                                                                                                                                                                                                                    | n                                        | neabs |
| 88.42                                                                                                                                                                                                                                                                                                  | 7.82                                     | 3.76  |
| <b>Provides:</b> PaedDr. Imrich Staško, doc. PhDr. Ivan Šulc, CSc., doc. Mgr. Rastislav Feč, PhD., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., PaedDr. Milena Švedová, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško |                                          |       |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                                                                                                                           |                                          |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                    |                                          |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                  |                                           |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                     |                                           |       |
| <b>Course ID:</b> ÚTVŠ/<br>TVb/11                                                                                                                                                                                                                                                                      | <b>Course name:</b> Sports Activities II. |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                |                                           |       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                            |                                           |       |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                |                                           |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                                                                                                                                    |                                           |       |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                  |                                           |       |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                               |                                           |       |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                              |                                           |       |
| <b>Brief outline of the course:</b>                                                                                                                                                                                                                                                                    |                                           |       |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                         |                                           |       |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                |                                           |       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                          |                                           |       |
| <b>Course assessment</b><br>Total number of assessed students: 6364                                                                                                                                                                                                                                    |                                           |       |
| abs                                                                                                                                                                                                                                                                                                    | n                                         | neabs |
| 84.95                                                                                                                                                                                                                                                                                                  | 11.06                                     | 3.99  |
| <b>Provides:</b> PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, doc. PaedDr. Ivan Uher, PhD., Mgr. Peter Bakalár, PhD., PaedDr. Milena Švedová, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško |                                           |       |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                                                                                                                           |                                           |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                    |                                           |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                           |                                            |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                              |                                            |       |
| <b>Course ID:</b> ÚTVŠ/<br>TVc/11                                                                                                                                                                                                                                                                               | <b>Course name:</b> Sports Activities III. |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                         |                                            |       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                     |                                            |       |
| <b>Recommended semester/trimester of the course:</b> 3.                                                                                                                                                                                                                                                         |                                            |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                                                                                                                                             |                                            |       |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                           |                                            |       |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                        |                                            |       |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                       |                                            |       |
| <b>Brief outline of the course:</b>                                                                                                                                                                                                                                                                             |                                            |       |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                  |                                            |       |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                         |                                            |       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                   |                                            |       |
| <b>Course assessment</b><br>Total number of assessed students: 4191                                                                                                                                                                                                                                             |                                            |       |
| abs                                                                                                                                                                                                                                                                                                             | n                                          | neabs |
| 89.91                                                                                                                                                                                                                                                                                                           | 4.72                                       | 5.37  |
| <b>Provides:</b> PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc.,<br>Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, doc. PaedDr. Ivan Uher, PhD., PaedDr. Milena<br>Švedová, PhD., Mgr. Peter Bakalár, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr.<br>Dávid Kaško |                                            |       |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                                                                                                                                    |                                            |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                                                                                                          |                                            |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                  |                                           |       |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                     |                                           |       |
| <b>Course ID:</b> ÚTVŠ/<br>TVd/11                                                                                                                                                                                                                                                                      | <b>Course name:</b> Sports Activities IV. |       |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present                                                                                                |                                           |       |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                            |                                           |       |
| <b>Recommended semester/trimester of the course:</b> 4.                                                                                                                                                                                                                                                |                                           |       |
| <b>Course level:</b> I., I.II., II.                                                                                                                                                                                                                                                                    |                                           |       |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                  |                                           |       |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                               |                                           |       |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                              |                                           |       |
| <b>Brief outline of the course:</b>                                                                                                                                                                                                                                                                    |                                           |       |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                         |                                           |       |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                |                                           |       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                          |                                           |       |
| <b>Course assessment</b><br>Total number of assessed students: 3363                                                                                                                                                                                                                                    |                                           |       |
| abs                                                                                                                                                                                                                                                                                                    | n                                         | neabs |
| 86.14                                                                                                                                                                                                                                                                                                  | 6.78                                      | 7.08  |
| <b>Provides:</b> PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, PaedDr. Milena Švedová, PhD., Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško |                                           |       |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                                                                                                                           |                                           |       |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                    |                                           |       |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                    |       |                                                            |     |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                       |       |                                                            |     |      |     |
| <b>Course ID:</b> ÚCHV/<br>SAZ1/03                                                                                                                                                                                                                                                                                                       |       | <b>Course name:</b> Stereochemistry of Inorganic Compounds |     |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 3 <b>Per study period:</b> 42<br><b>Course method:</b> present                                                                                                                                  |       |                                                            |     |      |     |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                              |       |                                                            |     |      |     |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                  |       |                                                            |     |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                 |       |                                                            |     |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                    |       |                                                            |     |      |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                                                                                                 |       |                                                            |     |      |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                |       |                                                            |     |      |     |
| <b>Brief outline of the course:</b><br>Symmetry, elements of symmetry, point groups, symmetrical properties of orbitals and bonds. Principles of stereochemistry, VSEPR, configuration of molecules, polyhedra, regular and semiregular polyhedra. Valence shells with 4 – 12 electron pairs, geometry of molecules and periodic system. |       |                                                            |     |      |     |
| <b>Recommended literature:</b><br>Kepert, D. L.: Inorganic Stereochemistry. Springer-Verlag, Berlin, 1982.<br>Kettle, S. F. A.: Symmetry and Structure. John Wiley & Sons, New York, 1985.                                                                                                                                               |       |                                                            |     |      |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                  |       |                                                            |     |      |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                            |       |                                                            |     |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 41                                                                                                                                                                                                                                                                        |       |                                                            |     |      |     |
| A                                                                                                                                                                                                                                                                                                                                        | B     | C                                                          | D   | E    | FX  |
| 58.54                                                                                                                                                                                                                                                                                                                                    | 21.95 | 17.07                                                      | 0.0 | 2.44 | 0.0 |
| <b>Provides:</b> doc. RNDr. Vladimír Zeleňák, PhD.                                                                                                                                                                                                                                                                                       |       |                                                            |     |      |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                                                                             |       |                                                            |     |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                      |       |                                                            |     |      |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                          |     |                                                                 |     |     |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                             |     |                                                                 |     |     |     |
| <b>Course ID:</b> ÚGE/<br>SVG/04                                                                                                                                                                                                                               |     | <b>Course name:</b> Students scientific conference of geography |     |     |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b><br><b>Recommended course-load (hours):</b><br><b>Per week: Per study period:</b><br><b>Course method:</b> present                                                                             |     |                                                                 |     |     |     |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                    |     |                                                                 |     |     |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                        |     |                                                                 |     |     |     |
| <b>Course level:</b> I., II.                                                                                                                                                                                                                                   |     |                                                                 |     |     |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                          |     |                                                                 |     |     |     |
| <b>Conditions for course completion:</b>                                                                                                                                                                                                                       |     |                                                                 |     |     |     |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                      |     |                                                                 |     |     |     |
| <b>Brief outline of the course:</b><br>After choosing a topic suggested by supervisors implying a geographical problem, the students will work on the topic, write a thesis and defense it before the committee.                                               |     |                                                                 |     |     |     |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                 |     |                                                                 |     |     |     |
| <b>Course language:</b>                                                                                                                                                                                                                                        |     |                                                                 |     |     |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                  |     |                                                                 |     |     |     |
| <b>Course assessment</b><br>Total number of assessed students: 140                                                                                                                                                                                             |     |                                                                 |     |     |     |
| A                                                                                                                                                                                                                                                              | B   | C                                                               | D   | E   | FX  |
| 100.0                                                                                                                                                                                                                                                          | 0.0 | 0.0                                                             | 0.0 | 0.0 | 0.0 |
| <b>Provides:</b> doc. RNDr. Zdenko Hochmuth, CSc., prof. RNDr. Peter Spišiak, CSc., RNDr. Dušan Barabas, CSc., RNDr. Alena Gessert, PhD., RNDr. Janetta Nestorová-Dická, PhD., Mgr. Marián Kulla, PhD., Ing. Katarína Bónová, PhD., RNDr. Stela Csachová, PhD. |     |                                                                 |     |     |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                   |     |                                                                 |     |     |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                            |     |                                                                 |     |     |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                     |                                                         |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                        |                                                         |
| <b>Course ID:</b> ÚTVŠ/<br>LKSp//13                                                                                                                                                                       | <b>Course name:</b> Summer Course-Rafting of TISA River |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 36 <b>Per study period:</b> 504<br><b>Course method:</b> present |                                                         |
| <b>Number of credits:</b> 2                                                                                                                                                                               |                                                         |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                      |                                                         |
| <b>Course level:</b> I., II.                                                                                                                                                                              |                                                         |
| <b>Prerequisites:</b>                                                                                                                                                                                     |                                                         |
| <b>Conditions for course completion:</b>                                                                                                                                                                  |                                                         |
| <b>Learning outcomes:</b>                                                                                                                                                                                 |                                                         |
| <b>Brief outline of the course:</b>                                                                                                                                                                       |                                                         |
| <b>Recommended literature:</b>                                                                                                                                                                            |                                                         |
| <b>Course language:</b>                                                                                                                                                                                   |                                                         |
| <b>Notes:</b>                                                                                                                                                                                             |                                                         |
| <b>Course assessment</b><br>Total number of assessed students: 63                                                                                                                                         |                                                         |
| abs                                                                                                                                                                                                       | n                                                       |
| 41.27                                                                                                                                                                                                     | 58.73                                                   |
| <b>Provides:</b> Mgr. Peter Bakalár, PhD.                                                                                                                                                                 |                                                         |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                              |                                                         |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                    |                                                         |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                     |                                     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                        |                                     |
| <b>Course ID:</b> ÚTVŠ/<br>KP/12                                                                                                                                                                          | <b>Course name:</b> Survival Course |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 36 <b>Per study period:</b> 504<br><b>Course method:</b> present |                                     |
| <b>Number of credits:</b> 2                                                                                                                                                                               |                                     |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                      |                                     |
| <b>Course level:</b> I., II.                                                                                                                                                                              |                                     |
| <b>Prerequisites:</b>                                                                                                                                                                                     |                                     |
| <b>Conditions for course completion:</b>                                                                                                                                                                  |                                     |
| <b>Learning outcomes:</b>                                                                                                                                                                                 |                                     |
| <b>Brief outline of the course:</b>                                                                                                                                                                       |                                     |
| <b>Recommended literature:</b>                                                                                                                                                                            |                                     |
| <b>Course language:</b>                                                                                                                                                                                   |                                     |
| <b>Notes:</b>                                                                                                                                                                                             |                                     |
| <b>Course assessment</b><br>Total number of assessed students: 185                                                                                                                                        |                                     |
| abs                                                                                                                                                                                                       | n                                   |
| 41.62                                                                                                                                                                                                     | 58.38                               |
| <b>Provides:</b> Mgr. Marek Valanský                                                                                                                                                                      |                                     |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                              |                                     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                    |                                     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                   |      |                                                          |      |     |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                      |      |                                                          |      |     |      |
| <b>Course ID:</b><br>KPPaPZ/UPR/03                                                                                                                                                                      |      | <b>Course name:</b> The Art of Aiding by Verbal Exchange |      |     |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 <b>Per study period:</b> 28<br><b>Course method:</b> present |      |                                                          |      |     |      |
| <b>Number of credits:</b> 2                                                                                                                                                                             |      |                                                          |      |     |      |
| <b>Recommended semester/trimester of the course:</b> 2., 4.                                                                                                                                             |      |                                                          |      |     |      |
| <b>Course level:</b> II.                                                                                                                                                                                |      |                                                          |      |     |      |
| <b>Prerequisites:</b>                                                                                                                                                                                   |      |                                                          |      |     |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                |      |                                                          |      |     |      |
| <b>Learning outcomes:</b>                                                                                                                                                                               |      |                                                          |      |     |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                     |      |                                                          |      |     |      |
| <b>Recommended literature:</b>                                                                                                                                                                          |      |                                                          |      |     |      |
| <b>Course language:</b>                                                                                                                                                                                 |      |                                                          |      |     |      |
| <b>Notes:</b>                                                                                                                                                                                           |      |                                                          |      |     |      |
| <b>Course assessment</b><br>Total number of assessed students: 47                                                                                                                                       |      |                                                          |      |     |      |
| A                                                                                                                                                                                                       | B    | C                                                        | D    | E   | FX   |
| 87.23                                                                                                                                                                                                   | 4.26 | 2.13                                                     | 2.13 | 0.0 | 4.26 |
| <b>Provides:</b> Mgr. Ondrej Kalina, PhD.                                                                                                                                                               |      |                                                          |      |     |      |
| <b>Date of last modification:</b> 04.02.2014                                                                                                                                                            |      |                                                          |      |     |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                  |      |                                                          |      |     |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Course ID:</b> ÚGE/<br>GME/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Course name:</b> Urban geography |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <b>Conditions for course completion:</b><br>The assessment of student's learning outcomes is carried out through a combination of in-process controls during the instructional part of the semester with an examination during the period of the semester. Monitoring or the continuous check-up consists of 80% of the active participation of the student in the early minutes and it is required to carry out specified tasks successfully. If a student fails a compulsory active participation in teaching and will not solve the task that particular student cannot successfully assign to the exams. The exam consists of a written and an oral part. If a student receives more than 51% in a written part he/she may proceed to the oral examination. If a student fails to demonstrate knowledge within the oral part of the examination, he or she must take both forms of exams again.                                                                                                                                      |                                     |
| <b>Learning outcomes:</b><br>The student in general shall acquire theoretical and methodological background in urban geography in general and he/she then implements it to the other regions of the world. in individual regions of the world with the application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| <b>Brief outline of the course:</b><br>An introduction to the study of Geography-Urban Geography, the study of the city in the context of social geography, Geography of the city, lines of research and the subject object; The definition of urban/city; The growth of the city; Stages of development of the city-the city, town, post socialist Socialist industrial city, city, city post systems-systems; The spatial structure of intraurban structure, spatial structure of the city, the transformation of the partial classification of the transformation processes; Urban ecology-social space, city space, the redistribution of the population, importers of natural ecology; Urbanization-development stage, factors; World/Global cities; Urban systems; Urban planning; Urban Shrinkage; Urban Land Use<br>Semináře<br>The focus of the course is the discussion on selected issues of the area-urban geography. seminars during the semester in the form of discussions on selected issues of the area-urban geography |                                     |
| <b>Recommended literature:</b><br>BEZÁK, A. 1987: Sociálno-priestorová štruktúra Bratislavy v kontexte faktorovej ekológie. Geografický časopis, 39, 3, 272-292.<br>CARTER, H. 1995: The Study of Urban Geography. Fourth edition, Arnold, London, 420 s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-----|
| <p>FERENČUHOVÁ, S. 2011: Meno, mesto, vec. Urbánne plánovanie v sociológii mesta a prípad (post)socialistického Brna. Masarykova univerzita, Medzinárodný politologický ústav, Brno, 275.</p> <p>GATES, L. R., STOUT, F. eds. 2003: The City Reader. 3rd Edition, London: Routledge, 520.</p> <p>KNOX, P., PINCH, S. 2000: Urban Social Geography: An Introduction (London: Prentice Hall), 375.</p> <p>MATLOVIČ, R. 1998: Geografia priestorovej štruktúry mesta Prešov. Geografické práce, roč. VII, č. 1. Fakulta humanitných a prírodných vied Prešovskej univerzity, 122.</p> <p>PACIONE, M. 2000: Urban Geography – A Global Perspective. Routledge, 686.</p> <p>SÝKORA, L. 2000: Geografie města. Texty k přednáškám na internetové stránce Geografie Města.</p> |       |       |       |       |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |       |       |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |     |
| <b>Course assessment</b><br>Total number of assessed students: 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |       |       |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | B     | C     | D     | E     | FX  |
| 30.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 17.65 | 17.65 | 14.71 | 19.12 | 0.0 |
| <b>Provides:</b> RNDr. Janetta Nestorová-Dická, PhD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       |       |       |     |
| <b>Date of last modification:</b> 11.02.2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |     |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                      |       |                                                   |     |      |      |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                         |       |                                                   |     |      |      |
| <b>Course ID:</b> ÚFV/<br>VMV1/04                                                                                                                                                                                          |       | <b>Course name:</b> Using Multimedia in Education |     |      |      |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 1 / 2 <b>Per study period:</b> 14 / 28<br><b>Course method:</b> present |       |                                                   |     |      |      |
| <b>Number of credits:</b> 4                                                                                                                                                                                                |       |                                                   |     |      |      |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                    |       |                                                   |     |      |      |
| <b>Course level:</b> II.                                                                                                                                                                                                   |       |                                                   |     |      |      |
| <b>Prerequisites:</b>                                                                                                                                                                                                      |       |                                                   |     |      |      |
| <b>Conditions for course completion:</b>                                                                                                                                                                                   |       |                                                   |     |      |      |
| <b>Learning outcomes:</b>                                                                                                                                                                                                  |       |                                                   |     |      |      |
| <b>Brief outline of the course:</b>                                                                                                                                                                                        |       |                                                   |     |      |      |
| <b>Recommended literature:</b>                                                                                                                                                                                             |       |                                                   |     |      |      |
| <b>Course language:</b>                                                                                                                                                                                                    |       |                                                   |     |      |      |
| <b>Notes:</b>                                                                                                                                                                                                              |       |                                                   |     |      |      |
| <b>Course assessment</b><br>Total number of assessed students: 85                                                                                                                                                          |       |                                                   |     |      |      |
| A                                                                                                                                                                                                                          | B     | C                                                 | D   | E    | FX   |
| 85.88                                                                                                                                                                                                                      | 10.59 | 0.0                                               | 0.0 | 1.18 | 2.35 |
| <b>Provides:</b> doc. RNDr. Marián Kireš, PhD., RNDr. Rastislav Adamek, PhD.                                                                                                                                               |       |                                                   |     |      |      |
| <b>Date of last modification:</b> 18.02.2014                                                                                                                                                                               |       |                                                   |     |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                     |       |                                                   |     |      |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |
| <b>Course ID:</b> ÚCHV/<br>VKCH/10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Course name:</b> Vybrané kapitoly z chémie |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture / Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 2 / 1 <b>Per study period:</b> 28 / 14<br><b>Course method:</b> present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |
| <b>Recommended semester/trimester of the course:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |
| <b>Conditions for course completion:</b><br>Terminal examination by written form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |
| <b>Learning outcomes:</b><br>Organic chemistry:<br>The general review on the basic chemistry of saccharides, lipids, amino acids and peptides.<br>Inorganic chemistry:<br>To get acquaintance of the students with the stereochemistry of inorganic compounds, methods of the study and its influence on the properties of the compounds. Moreover to get acquaintance of the students with actual direction of inorganic chemistry in the area of nanomaterials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |
| <b>Brief outline of the course:</b><br>Organic chemistry:<br>Nomenclature of monosaccharides, their stereochemistry (the Fischer projection, the Haworth projection, conformation of sugars). Monosaccharide derivatives. Ascending reactions. Oligosaccharides and polysaccharides.<br>Lipids, their structure and classification. Groups of lipids. Triacylglycerols, glycerophospholipids sfingophospholipids, glycosphingolipids.<br>Amino acids, their nomenclature, classification and stereochemistry. Synthesis of amino acids. Nonribosomal construction of peptides.<br>Inorganic chemistry:<br>Symmetry, elements of symmetry, point groups, symmetrical properties of orbitals and bonds. Principles of stereochemistry, VSEPR, configuration of molecules, polyhedra, regular and semiregular polyhedra, the use of concept of symmetry in IR and UV-VIS spectroscopy. Nanochemistry - definition, bonds in nanoparticles and nanopowders, interactions between nanoparticles. Unique properties of nanomaterials, new methods of the synthesis of nanomaterials. |                                               |
| <b>Recommended literature:</b><br>J. McMurry: Organic chemistry, Brooks/Cole, a Thomson Learning Company 2004, Sixth Edition, ISBN 0534389996.<br>J. Chomič: Stereochemistry of inorganic compounds, UPJŠ Košice, 1988.<br>K. J. Klabunde, R. M. Richards: Nanoscale Materials in Chemistry, Wiley-CH, 2009.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |

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|-----------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|------|------|
| <b>Course language:</b>                                                                                                     |       |       |       |      |      |
| <b>Notes:</b>                                                                                                               |       |       |       |      |      |
| <b>Course assessment</b>                                                                                                    |       |       |       |      |      |
| Total number of assessed students: 101                                                                                      |       |       |       |      |      |
| A                                                                                                                           | B     | C     | D     | E    | FX   |
| 16.83                                                                                                                       | 20.79 | 36.63 | 20.79 | 3.96 | 0.99 |
| <b>Provides:</b> doc. RNDr. Mária Kožurková, CSc., doc. RNDr. Vladimír Zeleňák, PhD., doc. RNDr. Miroslava Martinková, PhD. |       |       |       |      |      |
| <b>Date of last modification:</b> 03.02.2014                                                                                |       |       |       |      |      |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof. Volodymyr Starosta, DrSc.         |       |       |       |      |      |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                     |                                                |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                        |                                                |
| <b>Course ID:</b> ÚTVŠ/<br>ZKLS//13                                                                                                                                                                       | <b>Course name:</b> Winter Ski Training Course |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Practice<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 36 <b>Per study period:</b> 504<br><b>Course method:</b> present |                                                |
| <b>Number of credits:</b> 2                                                                                                                                                                               |                                                |
| <b>Recommended semester/trimester of the course:</b>                                                                                                                                                      |                                                |
| <b>Course level:</b> I., II.                                                                                                                                                                              |                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                     |                                                |
| <b>Conditions for course completion:</b>                                                                                                                                                                  |                                                |
| <b>Learning outcomes:</b>                                                                                                                                                                                 |                                                |
| <b>Brief outline of the course:</b>                                                                                                                                                                       |                                                |
| <b>Recommended literature:</b>                                                                                                                                                                            |                                                |
| <b>Course language:</b>                                                                                                                                                                                   |                                                |
| <b>Notes:</b>                                                                                                                                                                                             |                                                |
| <b>Course assessment</b><br>Total number of assessed students: 59                                                                                                                                         |                                                |
| abs                                                                                                                                                                                                       | n                                              |
| 25.42                                                                                                                                                                                                     | 74.58                                          |
| <b>Provides:</b> PaedDr. Imrich Staško, doc. PhDr. Ivan Šulc, CSc.                                                                                                                                        |                                                |
| <b>Date of last modification:</b> 15.01.2014                                                                                                                                                              |                                                |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                    |                                                |

## COURSE INFORMATION LETTER

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| <b>University:</b> P. J. Šafárik University in Košice                                                                                                                                                                                                                              |       |                                      |      |      |     |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                 |       |                                      |      |      |     |
| <b>Course ID:</b> ÚCHV/<br>XBCH/04                                                                                                                                                                                                                                                 |       | <b>Course name:</b> Xenobiochemistry |      |      |     |
| <b>Course type, scope and the method:</b><br><b>Course type:</b> Lecture<br><b>Recommended course-load (hours):</b><br><b>Per week:</b> 3 <b>Per study period:</b> 42<br><b>Course method:</b> present                                                                             |       |                                      |      |      |     |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                        |       |                                      |      |      |     |
| <b>Recommended semester/trimester of the course:</b> 2.                                                                                                                                                                                                                            |       |                                      |      |      |     |
| <b>Course level:</b> II.                                                                                                                                                                                                                                                           |       |                                      |      |      |     |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                              |       |                                      |      |      |     |
| <b>Conditions for course completion:</b><br>test                                                                                                                                                                                                                                   |       |                                      |      |      |     |
| <b>Learning outcomes:</b><br>Students obtained modern knowledge of xenobiotics metabolism in living organisms                                                                                                                                                                      |       |                                      |      |      |     |
| <b>Brief outline of the course:</b><br>Characterization of metabolism of xenobiotics in the liver. The basic types of biotransformation reactions - oxidation, reduction, hydrolysis, conjugation. Biotransformation enzymes. Free radicals and their effects, lipid peroxidation. |       |                                      |      |      |     |
| <b>Recommended literature:</b><br>Z. Ďuračková: Voľné radikály a antioxidyanty v medicíne, Slovak akademik press 1998.<br>Z. Vodrážka : Biochémia, Praha, 1996.<br>A. Jindra: Biochémia, molekulárnobiologické a farmakologické aspekty, Praha, 1985.                              |       |                                      |      |      |     |
| <b>Course language:</b>                                                                                                                                                                                                                                                            |       |                                      |      |      |     |
| <b>Notes:</b>                                                                                                                                                                                                                                                                      |       |                                      |      |      |     |
| <b>Course assessment</b><br>Total number of assessed students: 32                                                                                                                                                                                                                  |       |                                      |      |      |     |
| A                                                                                                                                                                                                                                                                                  | B     | C                                    | D    | E    | FX  |
| 59.38                                                                                                                                                                                                                                                                              | 21.88 | 12.5                                 | 3.13 | 3.13 | 0.0 |
| <b>Provides:</b> RNDr. Danica Sabolová, PhD.                                                                                                                                                                                                                                       |       |                                      |      |      |     |
| <b>Date of last modification:</b> 03.02.2014                                                                                                                                                                                                                                       |       |                                      |      |      |     |
| <b>Approved:</b> doc. RNDr. Mária Ganajová, CSc., doc. RNDr. Zdenko Hochmuth, CSc., prof.<br>Volodymyr Starosta, DrSc.                                                                                                                                                             |       |                                      |      |      |     |