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COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD117A/22	Course title: Basics of Didactics of Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 1	Working load: 25 hours
Recommended semester/trimester: 6.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the degree of acquisition of the relevant knowledge, skills and competencies of the student is carried out on the basis of the evaluation of the student's ongoing tasks and the final presentation. During the semester, the student demonstrates his theoretical knowledge in the form of partial tasks, which are the application of theoretical knowledge from general pedagogy to the specific subject of geography. At the end of the semester, he demonstrates his competences in a sample presentation of his independent preparation on a specific topic in geography. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - can apply the knowledge gained from the pedagogical basis to the areas of geography, - is able to analyze the lesson, - is able to keep a hospital sheet and a diary of pedagogical practice	
Course contents: 1. Didactics of geography as a scientific field - definition, methodological starting points, goals, tasks and peculiarities, meaning, inclusion in the system of sciences 2. The current position of geography in the curricula of primary and secondary schools. Causes of structural and conceptual changes. Innovative state education program 3. Educational standards – content and performance standards in geography for primary and secondary schools 4. Teaching and learning, basic components of the educational process and their unity 5. Concept-making process in geography - making concepts accessible and mastering, logical procedures (thought operations) of concept creation, the role of visualization in the process of concept creation 6. Objectives of geography education at primary and secondary school (final, staged, partial) - their relationship to the content of the curriculum and coordination with the objectives of other subjects 7. Lesson - basic characteristics, types of lessons, components, structure - specific applications using an example from geography	

8. Didactic methods in teaching geography (general, specific)
9. Ways of motivating pupils in different phases of the lesson (introductory, ongoing), demonstrations, examples
10. Planning of educational work, year-round work plan - time-thematic plan
11. Preparation for the lesson - a complete outline of the written preparation, a model sample of the interpretation of the primary school and gymnasium curriculum, determination of basic concepts and knowledge, determination of basic concepts
12. Geography textbooks for primary and secondary schools
13. Teaching aids in teaching geography

Recommended or required literature:

GNOTH, M. et al. (2003). Pedagogical practice for students of teacher combinations, PríF UK Bratislava, 140 p.

MADZIKOVÁ, A. KANCÍR, J. (2015). Didactics of geography. PU Prešov, 198 p.

ČIŽMÁROVÁ, K. (2008). Didactics of geography I. Banská Bystrica: FPV UMB.

ČIŽMÁROVÁ, K. (2006). Didactics of geography 2. Banská Bystrica: FPV UMB.

LIKAVSKÝ, P. (2006). General didactics of geography. Bratislava., PríF UK.

TOMČÍKOVÁ, I. (2011). Position of branch didactics in the system of sciences (example of didactics of geography). In: Proceedings of the international conference Interdisciplinary dialog of union didactics, Verbum - publishing house of the Catholic University in Ružomberok, 2011. - ISBN 978-80-8084-690-9, p. 1-7.

TOMČÍKOVÁ, I. (2010). Education reforms and geography in grammar schools. Disputationes Scientifcae Universitatis Catholicae in Ružomberok, vol. 10, no. 2, p. 12-15. ISSN 1335-9185

GEOGRAPHY TEXTBOOKS FOR PRIMARY AND SECONDARY SCHOOLS.

SCHOOL ATLASES, EDUCATIONAL STANDARDS ISCED 2, ISCED 3A.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 23

A	B	C	D	E	FX
73.91	26.09	0.0	0.0	0.0	0.0

Name of lecturer(s): RNDr. Ivana Tomčíková, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD103B/22	Course title: Basics of Information Technology for Geographers 1
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 2.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Homework will be assigned during the semester. Final assessment: total percentage gain from homework assessment. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - is able to evaluate, identify and use appropriate information technologies for obtaining and processing geographic data, including their analysis, synthesis, visualization and interpretation, - can use information technologies when studying and teaching geography, - has skills for working with data in text, tabular, graphic and cartographic form in various formats, - can use the potential of information technology in the field of geographic data in his everyday life on all the devices he uses (smartphone, tablet, computer, etc.). 	
Course contents: <ol style="list-style-type: none"> 1. Electronic sources of geographic data. Photos with geographic coordinates. 2. Text editors. Text formats. Keyboard shortcuts. 3. Table editors. Dataset formats. Keyboard shortcuts. 4. Formulas. Links. 5. Functions. 6. Contingency tables. Conditional formatting. 7. Graphs. 8. Data control. Working with large files. 9. Data preparation for GIS. 10. Spatial analysis. 11. Interactive geoinformatics tools on the Internet. 12. Internet map services. 13. Map and location applications. 	

Recommended or required literature:

- BLEHA, B. (2007): MS Office for the geographer. Esprit, Bratislava, 46 p. [ISBN 9788096983209], In Slovak
- NOVÁKOVÁ, G. (2009): Mathematical minimum: Precourse to Statistical methods in geography. Geo-grafika, Bratislava, 60 p. [ISBN 978-80-89317-10-3], In Slovak
- HENDL, J. (2016): Qualitative research: Basic theory, methods and applications. (4th revised and expanded edition) Prague, Portal 437 p. [ISBN 978-80-262-0982-9], In Czech
- PRAVDA, J. - KUSEDOVÁ, D. (2004): Computer creation of thematic maps. Comenius University in Bratislava, Bratislava, 264 p. [ISBN 8022320110], In Slovak
- KUSEDOVÁ, D. - BAČÍK, V. (2009): Computer creation of thematic maps. Exercises in MapInfo Professional. 2. reworking ed. Geo-grafika, Bratislava, 160 p. [ISBN 978-80-89317-07-3], In Slovak
- PRAVDA, J. - KUSEDOVÁ, D. (2007): Applied cartography. Geo-grafika, Bratislava, 224 p. [ISBN 978-80-89317-00-4], In Slovak
- HORÁK, J. (2019): Prostorové analýzy dat. Vysoká škola báňská - Technická univerzita Ostrava, Ostrava, 181 p. [ISBN 978-80-248-4368-1], In Czech, available on the Internet: <http://homel.vsb.cz/~hor10/Vyuka/PAD/SkriptaPAD2019.pdf>
- KAŇUK, J. (2015): Spatial analyzes and modeling. University teaching texts. Faculty of Natural Sciences of the University of Pavol Jozef Šafárik in Košice. 114 p., In Slovak, available on the Internet: https://uge-share.science.upjs.sk/webshared/uge_web_files/studium/ucebnice_skripta/2015_PF_Kanuk_PAaM.pdf
- HOFIERKA, J. - KAŇUK, J. - GALLAY, M. (2014): Geoinformatics. University textbook, Pavol Jozef Šafárik University, Košice, 194 p., In Slovak, available on the Internet: https://uge-share.science.upjs.sk/webshared/uge_web_files/studium/ucebnice_skripta/geoinformatics.pdf
- MIKLÍN, J., DUŠEK, R., KRTIČKA, L., KALÁB, O. (2018): Creation of maps. University of Ostrava. [ISBN 978-80-7599-017-4], In Czech, available on the Internet: <https://tvorbamap.osu.cz/>
- BOLTIŽIAR, M. - VOJTEK, M. (2009): Geographical information systems for geographers II. 1st ed. FPV UKF in Nitra, Nitra, 140 p. [ISBN 978-80-8094-553-4], In Slovak, available on the Internet: https://www.researchgate.net/publication/277018824_Geograficke_informacne_systems_for_geographers_II
- KLAUČO, M. - WEIS, K. - GREGOROVÁ, B. - ANSTEAD, L. (2014): Geographical information systems 1. Matej Bel University Publishing House in Banská Bystrica Belianum, Banská Bystrica, 71 pp., [ISBN 978-80- 557-0679-5], In Slovak, available on the Internet: <https://www.fpv.umb.sk/cms/saveDataFilePublic.php?uid=bgregorova&path=0mAqOW4IOLpwUrEk3i0QmfbxXy1YGQDzE52rKYlnf2Pyz1NCL8tG6EhOfv3CnyR3fusr9E4UBHHVxnbndRRqg>
- KLAUČO, M. - WEIS, K. - GREGOROVÁ, B. - ANSTEAD, L. (2014): Geographical information systems 2. Matej Bel University Publishing House in Banská Bystrica Belianum, Banská Bystrica, 99 pp., [ISBN 978-80- 557-0684-9], In Slovak, available on the Internet: https://www.fpv.umb.sk/cms/saveDataFilePublic.php?uid=bgregorova&path=HiG1A8G-_6BHa4hDaFv8HaWi08DqW0bHnhSfcwKKm8tgiMgfbrdhy24Ek14ZOiyb0j8bcfbJITcxs6zgdLWWjQ
- KLAUČO, M. - WEIS, K. - GREGOROVÁ, B. - ANSTEAD, L. (2014): Geographical information systems 3. Matej Bel University Publishing House in Banská Bystrica Belianum, Banská Bystrica, 87 pp., [ISBN 978-80- 557-0691-7], In Slovak, available on the Internet: https://www.fpv.umb.sk/cms/saveDataFilePublic.php?uid=bgregorova&path=815ZKzY8b64ehkxZKJV9QADPaiffpwQ0apCY7dAPH6OGF_Quyuoj-PIGbJZtb51h54Iw5VYizjUKdtAdJSQzHKg
- KLAUČO, M. et al. (2011-2019): Geoinformation minimum in the field of nature and landscape protection. SAŽP, Banská Bystrica, In Slovak, available on the Internet: <http://geomimimum/sazp.sk/>
- ORŠULÁK, T. - PACINA, J. (2012): Geoinformatics. 1st ed. Digital Services Center MINO, Bratislava, 60 p. [ISBN 978-80-904927-5-2], In Slovak, available on the Internet: <http://www.mino.sk/>

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 23					
A	B	C	D	E	FX
78.26	4.35	0.0	13.04	0.0	4.35
Name of lecturer(s): RNDr. Pavol Papčo, PhD.					
Last modification: 27.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD109B/22	Course title: Basics of Information Technology for Geographers 2
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Elaboration of a separate semester paper in the range of 5-10 pages, the content of which are selected exported thematic maps created in the environment of the freely available Quantum GIS software. Final assessment: total percentage gain from the evaluation of the semester work (80%) and the presentation of the semester work (20%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - knows basic theoretical knowledge related to GIS, - has practical skills of working in the freely available Quantum GIS software environment.	
Course contents: 1. Geographic information system (GIS), geoinformatics 2. Quantum GIS 3. Coordinate systems 4. Georeferencing 5. Working with raster data 6. Working with vector data 7. Creating a new layer 8. Basic cartographic methods 9. Map composition: map content 10. Composition of the map: title, legend, scale, orientation to the cardinal directions 11. WMS 12. Exporting 13. Presentations of semester works	

Recommended or required literature:

HOFIERKA, J. KAŇUK, J., GALLAY, M. (2014). Geoinformatics. Košice: University of P. J. Šafárik in Košice, 192 p. In Slovak, available on the Internet: https://uge-share.science.upjs.sk/webshared/uge_web_files/studium/ucebnice_skripta/geoinformatika.pdf

VOJTEKOVÁ, J., ŽONCOVÁ, M. (2021). Geographic information systems for geographers. Creation of selected thematic maps. Nitra: University of Constantine the Philosopher in Nitra, 88 p. In Slovak, available online: www.kgr.fpv.ukf.sk/images/publikacie/skripta_Vojtekova_Zoncova_2021_web.pdf

BOLTIŽIAR, M., VOJTEK, M. (2009). Geographic information systems for geographers II. Nitra: University of Constantine the Philosopher in Nitra, 140 p. In Slovak, available on the Internet: www.kgr.fpv.ukf.sk/images/publications/Geographical%20information%20systems%20for%20geographers%20II.pdf

QUANTUM GIS USER GUIDE, VERSION 0.7 "JOSEPHINE". Available on the Internet: https://gis.fns.uniba.sk/vyuka/Gis/user_guide.pdf

PAPČO, P. (2011). Gully erosion in time – maps versus correlated sediments (case study). Geographical journal, 63, 3, p. 287-298. In Slovak, available on the Internet: <https://www.sav.sk/journals/uploads/03101341GC-11-3-Papco.pdf>

Language of instruction:

Slovak

Notes:**Course evaluation:**

Assessed students in total: 3

A	B	C	D	E	FX
33.33	33.33	0.0	0.0	0.0	33.33

Name of lecturer(s): RNDr. Pavol Papčo, PhD.

Last modification: 28.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD101B/22	Course title: Cartography Seminar
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 2 hours per semester: 26 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 1.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, students actively process assigned tasks and exercises (30%). They prepare questions for the evaluation method "student based questions learning" (30%). The evaluation (formative) will take place through an interview in which the teacher and the student evaluate the work done on the exercises and tasks and the progress achieved in skills and competences (40%) compared to the knowledge acquired in the first semester. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - a graduate of the Cartography Exercises course can distinguish and use the construction of a map display from compositional elements - knows the possibilities of obtaining geographical information from the contents of topographical, general geographic and thematic maps - can describe the possibilities of determining the relative and absolute position of geographical elements - knows and can demonstrate with examples the essence of localization, reduction and display in the mathematical basis of the map - knows and can demonstrate the essence of cartographic generalization using examples - can describe graphic operations and variables and their meaning in the legend of the thematic map - based on the study material provided by the lecturer and the recommended literature, he has the competence of a critical approach to innovations in cartography methods for geographers with an emphasis on the use of the Internet (key words) 	
Course contents: <ol style="list-style-type: none"> 1. Location of the object in the topographical and general geographic map 2. Topographical and general geographic reading, map reading and orientation according to map content - points of interest (POI), routes, GPS and navigation, location 3. Description and use of cartographic tools for map composition 4. Differentiation of the thematic layer, graphic elements and operations 5. Geographic coordinates in maps, absolute position 	

6. Shape and dimensions of the Earth, characteristics of the planet's surface
7. Display of global processes and phenomena on thematic maps of the world.
8. Tasks for working with scales, examples with scales, marginal accuracy of scale.
9. Four components of the content of base maps (M, P, V, T) and classes of geographical elements from prehistoric times - descriptions of specific maps.
10. Relief in a topographic and general geographic map, its expression
11. Use of contour lines in graphic constructions (slopes, valleys and slope curve, transverse profile of the relief, fragmentation of the relief, hypsographic curve).
12. Topographic map as a basis for tourist maps and car maps (Internet) Complex analysis of the thematic map
13. Concrete examples of the possibilities of using maps (1- basics of reading, 2 - basics of orientation, 3 - in geography, 4 - in school, 5 - for the public)

Recommended or required literature:

NIŽNANSKÝ, B. (2012-2020): Basics of cartography for geographers. Study texts and worksheets in electronic form (Map information object 40 p., Mathematical basis of the map 40 p., System of map signs 40 p., Use of maps 15 p. - continuously updated, supplemented with materials for exercises.

KRTIČKA, L. (2007): Introduction to cartography. Ostrava: University of Ostrava in Ostrava. 87 p. Available on the Internet: http://www1.osu.cz/~krticka/Krticka_DiV_Kartografie.pdf

JAKUBÍK, J. (2010): Basics of cartography and topography. College scripts. Banská Bystrica: Faculty of Natural Sciences UMB, 144 p. Available on the Internet.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 44

A	B	C	D	E	FX
90.91	4.55	4.55	0.0	0.0	0.0

Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc.

Last modification: 11.09.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD110B/22	Course title: Contemporary Human Geographic Research
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, texts of contemporary human geography research will be assigned for study. Students will be evaluated on the basis of regular presentation of studied research to their colleagues and on the basis of active participation in the discussion of this research. Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - is able to identify, evaluate, interpret and appreciate the contribution of contemporary human geography research to society and the economy, - is able to explain and transfer this knowledge and skills.	
Course contents: Study of current human geography research and sharing of knowledge gained in the group.	

Recommended or required literature:

ČIEF, R. BOHÁČ, A. (2019): Regional geography of Africa. Publishing House of the Catholic University of Ružomberok, Verbum, Ružomberok, 2019, 141p. ISBN 978-80-561-0691-4

Current issues of scientific, professional and popular science geographical magazines and current articles with geographical overlap in "non-geographical" magazines in Slovakia and the Czech Republic, or in other countries (with the use of increasingly perfect automatic language translators), for example:

Geographical magazine <http://geograficky-casopis.sav.sk/>

Geographia Cassoviensis <https://www.gcass.science.upjs.sk/>

Acta Geographica Universitatis Comenianae <http://actageographica.sk/sk/index.php>

Cartographic lists <http://gis.fns.uniba.sk/kartografickelisty/?p=2&l=sk>

Geography <http://www.casopisgeografia.sk/index.php/Geografia/issue/archive>

Environment <http://publikacie.uke.sav.sk/> https://www.sav.sk/?lang=sk&doc=journal-list&journal_no=58

Geography <https://geografie.cz/>

Moravian Geographical Reports <https://www.geonika.cz/mgr.html>

AUC Geographica (Acta Universitatis Carolinae Geographica) <https://web.natur.cuni.cz/gis/aucg2/index.php/aucg/index>

Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Geographica <http://geography.upol.cz/geographica-cz>

Geographical perspectives <https://www.geograficke-rozhledy.cz/archiv>

Historical magazine <http://www.historickycasopis.sk/>

Sociology <http://www.sociologia.sav.sk/static.php?id=1153>

Economic magazine <http://www.ekonom.sav.sk/sk/casopis>

Demography <https://www.czso.cz/csu/czso/demography>

Statistics: Statistics and Economy Journal <https://www.czso.cz/csu/czso/1-statistika>

Sociological magazine - Czech Sociological Review <https://sreview.soc.cas.cz/>

Political economy <https://polek.vse.cz/>

Prague Economic Papers <https://pep.vse.cz/?l=cz>

Language of instruction:**Notes:****Course evaluation:**

Assessed students in total: 1

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

Name of lecturer(s): PaedDr. Rastislav Čief, PhD.

Last modification: 27.10.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD104B/22	Course title: Demography Seminar
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 2.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, the student demonstrates the level of acquired knowledge and skills by solving partial tasks and by processing the semester work (demographic characteristics of the selected Slovak city). Final assessment: written test (50%), semester paper (50%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - has the ability to calculate basic demographic indicators and interpret them graphically, - understands thematic maps with a demographic theme, - can evaluate the selected population based on demographic indicators, its simple prognosis.	
Course contents: 1. Basic statistical sources 2. Indicators of population distribution and population density 3. Natural movement (natality, mortality) 4. Indicators affecting the natural movement of the population (marriage rate, divorce rate, abortion rate, reproduction) 5. Migration movement 6. Total population movement 7. Structure by age and gender 8. Age pyramid 9. Average age, middle age 10. Selected economic characteristics of the population structure - in the form of card diagrams	

11. Ethnic and linguistic structure - Slovakia, parts of the world, the world
12. Religious structure of the population - Slovak Republic, parts of the world, world
13. Presentation of projects

Recommended or required literature:

BAČÍK, M. (2010): Basics of demogeography. Verbum, KU in Ružomberok, 230 p.

BAČÍK, M. (2015): Basics of statistics for geographers. Matej Bel University, 2007, 1st ed. 122 p. ISBN 978-80-8083-502-6

MLÁDEK, J. et al. (eds.) (2006): Atlas of the population of Slovakia. Comenius University, Bratislava, 168 pp., ISBN: 80-223-2190-7

RAKYTOVÁ, I. (2007): Human and regional geography of the Slovak Republic. Faculty of Education of the Catholic University, Ružomberok, 96 p. [ISBN 9788080841522]

RAKYTOVÁ, I. (2010): Basics of geography 2. Basics of human geography and regional geography of the world and the Slovak Republic. Verbum, Ružomberok, 300 p. [ISBN 9788080845315]

JURČOVÁ, D. (2005): Dictionary of demographic terms. Edition: Akty. INFOSTAT – Institute of Informatics and Statistics, Demographic Research Centre, Bratislava, 71 p. ISBN 80-85659-40-9 http://www.infostat.sk/vdc/pdf/slovník_2verdd.pdf

BLEHA B., NOVÁKOVÁ G. (2010): Demogeography and demography practice. Geo-graphics, Bratislava, 138 pages.

VYSTOUPIL, J. (2004): Basics of demography. Masaryk University in Brno Faculty of Economics and Administration, Brno, 2004, available online: https://is.muni.cz/el/econ/jaro2015/BPR_DEMO/um/Zaklady_demografie_2004.pdf

MLÁDEK J., KUSEDOVÁ D., MARENČÁKOVÁ J., PODOLÁK P., VAŇO B. (eds.) (2006): Demogeographic analysis of Slovakia. University of Bratislava, Bratislava, 221 p.

Internet sources:

<http://www.demografie.info>

<http://hdr.undp.org/> - UN human development report

<http://epp.eurostat.ec.europa.eu>

<http://www.population-growth-migration.info>

<https://data.statistics.sk/viz/html/sk.html> - SR municipalities, visualization of statistics

<https://ourworldindata.org/> - visualization of geographic data in graphs and maps

https://knowledge4policy.ec.europa.eu/atlas-migration_en - interactive migration atlas

infostat.sk

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 1

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

Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD114A/22	Course title: Environmental Geofactors
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 1 hours per semester: 26 / 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 5.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Passing the course requires knowledge about the state of the natural setting and the environmental loading of the landscape in the territory of the Slovak Republic. In addition to the overall environmental situation of our country, the student will acquire knowledge for assessing geopotentials and geobarriers of the environment in the selected region, in the form of a seminar paper. With its own approach, it will thus contribute to the documentation and monitoring of environmental burdens in a specific location. The evaluation of the subject integrates the results of the final exam and the quality of the seminar work. Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - The student will acquire a holistic approach to the landscape sphere from the point of view of the interaction of positive factors of the environment (geopotentials) and negative components of the environment (geobarriers). - Understand the importance of geofactors for the quality of the environment, respectively the threatening effects of geohazards on humans, the devastating effects of anthropogenic and geotechnical influences on the landscape and natural environment. - In addition to the factors of threat and devastation of the environment, the student will also realize the economic and material damages of reckless interventions in the use of the landscape.	
Course contents: 1. Components of the geological environment (definition of geofactors, geopotentials, geobarriers and geohazards). 2. Geofactors affecting land use and environmental quality.	

3. Geopotentials of the regions of Slovakia in terms of mineral raw materials and natural resources of the country (historical and current mining activity, construction materials, etc.)
4. Geopotentials of regions with favorable pedological conditions (quality arable soils, basic soils, etc.).
5. Geopotentials of the country in terms of balneology, occurrence of healing and mineral waters, geothermal energy, etc.
6. Geohazards - factors damaging the environment.
7. Geohazards in areas of slope instability (landslides, stone avalanches, clay-stone streams, catastrophic landslides in the territory of Slovakia, etc.).
8. Extreme meteorological phenomena, embankment of streams and floodplains, historical floods in the territory of Slovakia.
9. Seismic geohazards (areas of seismic risk, historical earthquakes on the territory of Slovakia).
10. Toxicological geohazards in the industrial and mining regions of Slovakia (environmental burdens, accident remediation, etc.).
11. Environmental problems of landfills and waste storage facilities in the country
12. Technological geohazards from radiation threats on the territory of Slovakia (geological risks of nuclear power plants, nuclear waste repositories, etc.)
13. Monitoring of geofactors for a sustainable state of the environment.

Recommended or required literature:

- BALIAK, F., MARTINČEKOVÁ, T., ŠIMEKOVÁ, J., 1998: Geological environmental factors of the Ružomberok-Liptovský Mikuláš region. In: Geology and environment 1998. Bratislava : Vydavateľstvo D. Štúra, ISBN 80-85314-90-8., 126-128.
- BLIŠTAN, P., BLIŠTANOVÁ, M., 2015: The impact of geohazards on the sustainable development of society. In: Industrial toxicology 2015, Svit, 12-21.
- ČECH, V., KROKUSOVÁ, J., 2013: Anthropogenic geomorphology – anthropogenic relief forms. University of Prešov in Prešov, 166 pp., ISBN 978-80-555-1037-8 (online).
- DRDOŠ, J., 1992: Natural environment: resources-potentials-capacity-hazards-risks. Geographical magazine, 44, 1, 30-39.
- KLUKANOVÁ, A., 1998: Mapping and monitoring of geological environmental factors. In: Geology and environment. Publisher, D. Štúra, Bratislava, 123-125.
- MALÍK, P., BAJTOŠ, P., ŠVASTA, J., BOTTLÍK, F., MICHALKO, J., OLEKŠÁK, S., MIŽÁK, J., 2017: Hydrogeological maps in the set of environmental geofactor maps. In: Groundwater in the regions of Slovakia. SAH Bratislava, 54-73.
- ONDRÁŠIK, R., GAJDOŠ, V., 2006: Geological risks and their assessment in project preparation and land use. Acta environ. univ. Comenianae, Vol. 14, 2., 83-89
- ONDRÁŠIK, R., Vlčko, J., Fendeková, M., 2011: Geological hazards and their prevention. Comenius University in Bratislava, 286 pp., ISBN 978-80-223-2956-9
- PROKŠA, P., 2009: Rock environment as a component of the environment in the Slovak Republic. Slovak Environmental Agency, 3-59.
- RAPANT, S., VRANA, K., BODIŠ, D. 1996: Geochemical Atlas of Slovakia, Part I, Groundwater. Ed. Bratislava, Geological Service of the Slovak Republic 1996. p. 127, ISBN 80-85314-67-3
- TOMETZ, L., 2002: Development of the teaching of environmental geology at the Technical University in Košice. Acta Montanistica Slovaca, 7, 2, 311-314.

Language of instruction:

Slovak

Notes:

Course evaluation:					
Assessed students in total: 28					
A	B	C	D	E	FX
57.14	35.71	7.14	0.0	0.0	0.0
Name of lecturer(s): doc. RNDr. Ján Soták, DrSc.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD106A/22	Course title: Field Course in Physical geography and Human geography 1
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 2 hours per semester: 26 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 2.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the field course, which is implemented within the semester by block teaching lasting three days, the landscape sphere in the interaction of physical and human geography is vividly demonstrated to students. Students' work with the map, their ability to identify and characterize geological sites and geographical objects in the field and on the map is evaluated. Successful completion of the subject requires active participation, preparation of own notes documenting the interpretation of the entire field course (maximum possible gain of 60 points), successful completion of the oral exam (max. 40 points). Subject evaluation: A – 100%-94%, B – 93%-88%, C – 87%-81%, D – 80%-75%, E – 74%-60%, Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - The student acquires the ability, through direct observation in the field, to identify mutual vertical and horizontal ties and relationships within the landscape sphere, - Documents the visited locations, prepares their description, graphic diagrams, photographs and a field diary (protocol), - Is able to analyze physical-geographical and human-geographical objects in the country, distinguish geological units and their composition, identify forms of relief and karst, and obtain terrain information from topographical and geological maps, excursion guides and other information sources.	
Course contents: 1. Research of selected components of the physical-geographical sphere	

2. Classification of terrain forms of the georelief of Slovakia from the point of view of geological structure, tectonics, morphostructures, karst formations, intermountain basins and anthropogenic forms of the cultural landscape.
3. Presentation of the study sites of the geological structure of Slovakia (crystalline cores, folds, mantles, neovolcanites, flysch sediments, etc.).
4. Presentation of cave systems and representative locations of occurrence of minerals, fossils, travertines, springs, mineral raw materials, etc.
5. Research of selected components of the human geography sphere. Character of settlement and residential archetypes of the country.
6. Sacral and fortification objects, and balneological centers of the visited regions.
7. Natural and cultural-historical potential of tourism development.
8. Environmental aspects of the geographical (landscape) sphere in the regions of Slovakia.
9. Specific procedures for solving environmental problems at the visited locations.
10. The influence of the use of natural resources on the nature of the mining landscape and the quality of the environment.
11. Anthropogenic transformation of the landscape during the construction of road and highway infrastructure in Slovakia.
12. Regional museums, natural history exhibitions, collection funds and their educational use.
13. Potential risks and geobarriers reducing land use in the visited regions.

Recommended or required literature:

- LUKNIŠ, M. ed., 1972: Slovakia 2, Nature. Bratislava: Obzor, 917 p.
- LUKNIŠ, M., 1973: The relief of the High Tatras and their forelands. Bratislava, Publishing House Slovak Academy of Sciences, 375 p.
- SOTÁK, J., 2016: Structure, composition and dynamics of the Earth. VERBUM – KU Ružomberok publishing house, ISBN 978-80-561-0416-3 (CD)
- SOTÁK, J., 2016: Geological past and paleogeography of the Earth. VERBUM – KU Ružomberok publishing house, ISBN 978-80-561-0415-6 (CD)
- MIŠÍK, M., 1974: Geological excursions in Slovakia. SPN Bratislava, 359 p.
- TOLMÁČI, L., LAUKO, V., GURŇÁK, D., KRIŽAN, F. 2008: Geographical field trip – practical education tool (application in Slovakia). Bratislava: Iuventa, 207 p.
- LAUKO, V., 2003: Physical geography of the Slovak Republic. Bratislava: Mapa Slovakia School, 106 p.
- BELLA, P., HAVIAROVÁ, D., KOVÁČ, Ľ., LALKOVIC, M., SABOL, M., SOJÁK, M., STRUHÁR, V., VIŠŇOVSKÁ, Z., ZELINKA, J., 2014: Caves of the Demänovská dolina . ŠOP SR, SSJ, Liptovský Mikuláš, 200 p. ISBN 978-80-89310-72-2
- JELEŇ, S., GALVÁNEK, J., ANDRÁŠ, P., BENDÍK, A., BELÁČEK, B., BOZALKOVA, I., GAÁL, Ľ., GAJDOŠ, A., HÁBER, M., KONEČNÝ, V., KRIŽÁNI, I., LUPTÁKOVÁ, J., MAZÚREK, J., MICHAL, P., SOTÁK, J., STAŇOVÁ, S., ŠIMO, V., ŠURKA, J. & WETTER, R., 2009: Educational-cognitive a guide to the geological and geographical locations of central Slovakia. Quick Print Martin, 309 p., ISBN 978-80-970413-4-2.
- BIZUBOVÁ M., RUŽEK I., MAKÝŠ O. 2001. Educational trails of Slovakia. Catalog I. Revised ed. The Tree of Life Bratislava, 112 p.
- BIZUBOVÁ, M., RUŽEK, I., TURANOVÁ, L., 2010: Excursion guide. Geosciences for everyone, Faculty of Natural Sciences, UK Bratislava, 19 p.
- ČIŽMÁROVÁ, K. et al., 2013: Regional geography of Pohronia. UMB Banská Bystrica, 84 p.
- AUBRECHT, R., 2014: Field exercises in stratigraphy. Comenius University, Bratislava, 99 pp., ISBN: 978-80-223-3672-7 (online)

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 25					
A	B	C	D	E	FX
60.0	28.0	0.0	4.0	4.0	4.0
Name of lecturer(s): doc. RNDr. Ján Soták, DrSc., PaedDr. Rastislav Čief, PhD.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD112A/22	Course title: Field Course in Physical geography and Human geography 2
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 4 hours per semester: 52 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, there will be preparation for the field course, which will usually take place at the end of the semester in a six-day block. The overall evaluation will consist of the following partial evaluations: 1. active participation; 2. a report on a given topic submitted at the beginning of the field course and its presentation during the field course; 3. oral answers to questions from the assigned topic and from the curriculum covered during the field course; 4. own notes documenting in detail the interpretation from the entire field course, especially from the individual locations visited; 5. own share in the creation of a joint student website documenting the field course (including an interactive internet map). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - by direct field observation and the use of a map, the student is able to apply theoretical knowledge from physical and human geography directly in the field, - can practically use basic methods for collecting and processing data on natural and social objects, phenomena and processes in the physical-geographical and human-geographical spheres and for the preparation of textual, tabular, graphic and cartographic outputs, - is able to apply the basic methods of obtaining information about objects, phenomena and processes of the physical-geographical and human-geographical sphere during preparation for field observation and mapping, during their actual implementation in the field, and information processing methods after the end of their actual implementation, - is able to compare information from various sources, including maps, with objective reality in the field and use it in geographic education.	

Course contents:

1. Research of the physical-geographic sphere (theoretical part). Methods of physical-geographical research.
2. Topographical maps, thematic physical-geographical maps.
3. Research in the physical-geographic sphere (practical part).
4. Verification of information from physical-geographical maps in the field.
5. Analysis of the geological outcrop, characteristics of the local georelief. Analysis of pedological outcrop - probes, interpolation, extrapolation.
6. Characteristics of local hydrological and climatic features in the country. Characteristics of plant and animal communities, vertical zonation.
7. Environmental problems of Slovakia in regional examples.
8. Research in the human geography sphere (theoretical part).
9. Thematic human geographic maps, maps of land use and land cover.
10. Analysis of demographic and demogeographic structures and processes by quantitative (statistical data) and qualitative (survey, questionnaire, interview, etc.) research methods.
11. Localization factors/factors and prerequisites for development: human settlement activities, forestry and water management activities, agricultural and industrial production, transport infrastructure and transport, logistics centers, warehouse management, various specific types of public and commercial services, wholesale and retail trade, research and technical centers, tourism, etc.
12. Research in the human geography sphere (practical part). Observation as the basic method of field research in geography.
13. Identification of factors of localization and development of specific objects, phenomena and processes of the human-geographical sphere in selected localities.

Recommended or required literature:

SOTÁK, J. (2016). Structure, composition and dynamics of the Earth. VERBUM – KU

Ružomberok publishing house, ISBN 978-80-561-0416-3 (CD)

SOTÁK, J. (2016). Geological past and paleogeography of the Earth. VERBUM – KU

Ružomberok publishing house, ISBN 978-80-561-0415-6 (CD)

KOREC, P. - RUSNÁK, J. (2018). Approaches of human geography: philosophy, theory, context. Comenius University in Bratislava, Bratislava, 239 p.

SPIŠIAK, P. (2007). Basics of the geography of agriculture and forestry. 3rd amended edition.

Comenius University in Bratislava, Bratislava, 154 p. [ISBN 978-80-223-2296-6]

TOUŠEK, V. - KUNC, J. - VYSTOUPIL, J. - DANĚK, P. - KLAPKA, P. - MULÍČEK, O. -

SEIDENGLANZ, D. - SZCZYRBA, Z. - VANČURA, M. - VŮŽNÍK, A. - VITURKA, M. -

TONEV, P. (2008). Economic and social geography. Aleš Čeněk Publishing House, Pilsen, 416 p.

[ISBN 978-80-7380-114-4]

MLADEK, J. et al. (1993). Poprad Region: Geographical structures of socioeconomic activities.

Comenius University in Bratislava, Bratislava, 207 p. [ISBN 8022304832]

LAUKO, V. - TOLMÁČI, L. - DUBCOVÁ, A. (2006). Human geography of the Slovak

Republic. 1st ed. Kartprint, Bratislava, 200 p. [ISBN 80-88870-56-9]

DUBCOVÁ, A. - LAUKO, V. - TOLMÁČI, L. - CIMRA, J. - KRAMÁREKOVÁ, H. -

KROGMANN, A. - NEMČÍKOVÁ, M. - NÉMETHOVÁ, J. - OREMUSOVÁ, D. - GURŇÁK,

D. - KRIŽAN, F. (2008). Geography of Slovakia (CD-ROM). University of Konstantin Filozof,

Faculty of Natural Sciences, Nitra, 348 p. [ISBN 978-80-8094-422-3] <http://www.kgrr.fpv.ukf.sk/GSR/index.htm>

KOREC, P. et al. (1997). Regions and districts of Slovakia: New administrative division. Q111,

Bratislava, 392 p. [ISBN: 80-85401-58-4]

SPIŠIAK, P. - KUSEDOVÁ, D. - PAVLIČKOVÁ, K. - HALÁS, M. - KOLÉNY, M. -

ZUBRICZKÝ, G. - ŠVOŇAVEC, M. - HURBÁNEK, P. - PAUČ, T. - LABUDA, M.

(2005). Agro-rural structures of Slovakia after 1989. Geo-grafika, Bratislava, 186 p. [ISBN 80-969338-4-1]

DŽUPINOVÁ, E. - HALÁS, M. - HORŇÁK, M. - HURBÁNEK, P. - KÁČEROVÁ, M. -

MICHNIAK, D. - ONDOŠ, S. - ROCHOVSKÁ, A. (2008). Periphery and spatial polarization in

Slovakia. Geografika, Bratislava, 183 p. [ISBN 978-80-89317-06-6]

HURBÁNEK, P. - PAZÚR, R. (2006). Land use changes in the municipalities of Legnava and

Litmanová in the Slovak part of the Slovak-Polish border between 1871/73 and 2005. In: Kraft,

S. - Mičková, K. - Rypl, J. - Švec, P. - Vančura, M. (eds.): Czech geography in the European

space, XXI. Congress of the Czech Geographical Society. University of South Bohemia, České

Budějovice, p. 1143-1148 [ISBN 978-80-7040-986-2]

RAKYTOVÁ, I. (2007). Human and regional geography of the Slovak Republic. Faculty of

Education of the Catholic University, Ružomberok, 96 p. [ISBN 9788080841522]

TOMČÍKOVÁ, I. (2009). Basics of geography 1. Verbum, Ružomberok, 132 p. [ISBN

9788080844875]

RAKYTOVÁ, I. (2010). Basics of geography 2. Basics of human geography and regional

geography of the world and the Slovak Republic. Verbum, Ružomberok, 300 p. [ISBN

9788080845315]

POPJAKOVÁ, D. - MINTÁLOVÁ, T. (2019). Industry 4.0, what preceded it and what

characterizes it - geographical contexts, Acta Geographica Universitatis Comenianae,

Vol. 63, No. 2, pp. 173-192 [ISSN 1338-6034] http://www.actageographica.sk/stiahnutie/63_2_03_Popjakova_Mintalova.pdf

stiahnutie/63_2_03_Popjakova_Mintalova.pdf

KOREC, P. - POPJAKOVÁ, D. (2019). Industry in Nitra: global, national and regional context.

Comenius University in Bratislava, Bratislava, 210 p. [ISBN 978-80-223-4829-4] [http://](http://www.humannageografia.sk/stiahnutie/nitra_priem_korec_popjakova_2019.pdf)

www.humannageografia.sk/stiahnutie/nitra_priem_korec_popjakova_2019.pdf

LAUKO, V. - POTOMOVA, J. (2009). The potential of the Ružomberok district and its

influence on the development of industry. Disputationes Scientifcae Universitatis Catholicae in

Ružomberok, Vol. 9, No. 4/B, pp. 134-139

LAUKO, V. et al. (2014). Regional dimensions of Slovakia. Comenius University in Bratislava,

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 21					
A	B	C	D	E	FX
57.14	19.05	4.76	0.0	14.29	4.76
Name of lecturer(s): PaedDr. Rastislav Čief, PhD., doc. RNDr. Ján Soták, DrSc.					
Last modification: 30.10.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD100S/22	Course title: Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Recommended study range: hours weekly: hours per semester: Teaching method: on-site	
Credits: 5	Working load: 125 hours
Recommended semester/trimester: 5., 6..	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: The state exam can be taken by a student who has fulfilled the obligations set by the accredited study program and the Study Regulations of the University of Ružomberok during the examination of the studies completed in the last year of study. The state exam has the character of a colloquium.	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - has relevant knowledge of physical and human geography. - is oriented in the system of geographical disciplines as well as in the basic methodological principles used in geography. - can connect knowledge from individual geographical disciplines, thanks to which he is able to understand the basic principles of the functioning of the landscape (geographic) sphere, or countries. - knows the basic forms and procedures of educational activity and can apply the acquired knowledge from individual areas of geography in the position of an auxiliary pedagogical worker. - is able to present his knowledge and communicate with the public about current knowledge in the field of geography, thanks to which he is able to hold the position of professional or pedagogical worker of museums, or state and public administration. - he can apply the practical skills acquired in the exercises for individual subjects and the knowledge of the basic principles of geographical research in the field of cabinet research as well as in the field. 	
Course contents: Updated theses for the colloquial exam are published on the faculty's website no later than the beginning of the summer semester in the given academic year.	
Recommended or required literature: According to the literature of the compulsory subjects of the given study program.	
Language of instruction: Slovak	
Notes:	

Course evaluation:					
Assessed students in total: 64					
A	B	C	D	E	FX
7.81	17.19	18.75	26.56	29.69	0.0
Name of lecturer(s):					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD100A/22	Course title: Geography Basics
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 1	Working load: 25 hours
Recommended semester/trimester: 1.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the degree of acquisition of the relevant knowledge, skills and competences of the student is carried out on the basis of theoretical and practical examinations during the semester teaching of the subject. In the course of the semester, the student is regularly evaluated on assignments that he/she works out continuously during the exercises, but also independently in the form of homework assignments. Final evaluation: total percentage gain from the written test (50%) and the tasks developed during the semester (50%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - the student understands the interaction between individual components of the landscape sphere and can give examples of interaction, - controls the composition and structures of the atmosphere and can explain atmospheric processes and flow in the troposphere (trade winds, anti-trade winds, east and west winds, monsoons, breeze, mountain and valley wind, föhn, cyclones and anticyclones), - can explain climate-forming factors and characterize climate zones on Earth, - can explain the water cycle, properties and dynamics of the world ocean, - understands the graphs of the flow regime of rivers, - can describe the movements of lithospheric plates and knows the basic classification of rocks, - can explain the influence of geomorphological factors on the creation of geomorphological forms, - can draw soil profiles of basic soil types and characterize their properties and location on Earth, - can characterize bioclimatic zones on Earth, - has an overview of the development, distribution and structure of the population on Earth, - can calculate gross rates of birth, mortality, immigration, emigration, natural, mechanical and total population growth, - can analyze age pyramids, - can classify headquarters according to size, function and hierarchy, - can explain Christaller's model of the theory of central cities, 	

- can explain factors affecting agriculture and characterize individual types of agriculture,
- can explain the localization factors of industry and controls the structure of industrial production,
- can divide traffic according to environment and means of transport,
- can explain the structure of services and their meaning

Course contents:

1. Landscape sphere and landscape as a subject of geography
2. Atmosphere
3. Hydrosphere
4. Lithosphere
5. Georelief
6. Pedosphere
7. Biosphere
8. Population and settlements
9. Agriculture
10. Industry
11. Transportation
12. Services
13. Tourism

Recommended or required literature:

1. ČIEF, R., NIŽNANSKÝ, B. (2017): We are starting geography actively. Publishing House of the Catholic University of Ružomberok, Verbum, Ružomberok, 2017, 68 p. ISBN 978-80-561-0503-0
2. TOMČÍKOVÁ, I. (2010): Basics of geography 1, PF KU Ružomberok, Verbum, 2010, 150p.
3. RAKYTOVÁ, I. (2010): Basics of geography 2, PF KU Ružomberok, Verbum, 2010, 300p.
4. School atlas of the Slovak Republic
5. School Atlas of the World

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 49

A	B	C	D	E	FX
48.98	22.45	8.16	4.08	6.12	10.2

Name of lecturer(s): PaedDr. Rastislav Čief, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD108B/22	Course title: Geography of Religions
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: The resulting evaluation corresponds to the evaluation of the processing and presentation of the semester work (40%) and the final test (60%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - knows the basic division of religions from different points of view, - can characterize world religions, - can characterize selected archaic religions, - can clarify the relationship between religious systems and the geographical sphere, - can give the basic geographical characteristics of religious systems in the world, - knows the religious structure of Slovakia	
Course contents: 1. Concept, structure and classification of religions. Genesis of religions 2. Archaic religions: The religion of the ancient Romans, Greeks, Celts, Germans, Slavs, ancient Egypt) 4. Universal religions - Semitic group - Judaism, Christianity and Islam 5. Universal religions - A group of so-called Indian religions - Hinduism, Buddhism, Jainism and Sikhism. 6. Universal religions, a group of Far Eastern religions - Confucianism, Taoism and Shintoism. 7. The relationship between religious systems and the geographical sphere (religions and population, religions and settlements, religions and the economy, religions and politics). 8. Geographical aspects of religious systems in the world - Europe	

9. Geographical aspects of religious systems in the world - Asia
10. Geographical aspects of religious systems in the world - Africa
11. Geographical aspects of religious systems in the world America, Australia, Oceania
12. Geographical aspects of religions in Slovakia (development of religious conditions, current religious structure, geographical characteristics of state-registered churches in Slovakia).
13. Presentations of semester works

Recommended or required literature:

MATLOVIČ, R. (2001): Geography of religions, outline of the problem. Prešov: Faculty of Humanities and Natural Sciences of the University of Prešov in Prešov. Available on the Internet.

POLÁČIK, Š. ED. (2000): Atlas of churches, religious societies and religiosity in Slovakia.

Bratislava: Chronos, Faculty of Arts, UK

Internet sources:

https://is.muni.cz/el/1421/podzim2005/RLB30/um/Geografia_religioi.pdf

https://geography.upol.cz/soubory/lide/fnukal/REGE/REGE_Mintalova.pdf

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 17

A	B	C	D	E	FX
70.59	5.88	0.0	0.0	17.65	5.88

Name of lecturer(s): PaedDr. Rastislav Čief, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD116A/22	Course title: Geography of the Local Region
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 1	Working load: 25 hours
Recommended semester/trimester: 5.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Elaboration of a semester work in the range of 10-15 pages, thematically focused on the complex geographical characteristics of the selected small region (specifically, the place of the student's living). Final assessment: total percentage gain from the evaluation of the content and level of the semester work (80%) and the presentation of the semester work (20%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - is able to apply selected research methods of individual components of physical and human geography on the example of a selected small (local) region, - can define a region based on regionalization criteria and is able to process its quasi-complex geographical characteristics, - is able to carry out partial field research of a selected small region, - can identify the natural and socioeconomic characteristics and problems of the region, or propose solutions 	
Course contents: <ol style="list-style-type: none"> 1. Region, local region: basic conceptual and methodological issues 2. Identification and definition of the region 3. Lithogeographic and morphogeographic analysis 4. Climate and hydrogeographic analysis 5. Pedogeographical analysis 6. Biogeographic analysis 7. Nature and landscape protection 8. Demographic and settlement analysis 9. Analysis of agriculture and industry 10. Analysis of transport, services, tourism development possibilities 11. Complex geographical synthesis of the region 12. Possibilities of use in geographic education 	

13. Presentations of semester works

Recommended or required literature:

TOMČÍKOVÁ, I. (2010). The local landscape in the teaching of local history and geography in primary school. *Geographia Cassoviensis*, 4, 1, p. 159-163. In Slovak, available on the Internet: https://uge-share.science.upjs.sk/webshared/GCass_web_files/articles/GC-2010-4-1/33Tomcikova_4.pdf

TOMČÍKOVÁ, I. (2018). The concept of teaching the geography of the local landscape in primary school. *Geographic information*, 22, 1, p. 496-507. In Slovak, available online: www.kgrr.fpv.ukf.sk/images/geograficke_informacie/2018_22_1/tomcikova.pdf

DUBCOVÁ, A., KRAMÁREKOVÁ, H., NEMČÍKOVÁ, M., NÉMETHOVÁ, J., OLÁHOVÁ, J., OREMUSOVÁ, D., RAMPAŠEKOVÁ, Z., REPASKÁ, G., ŠOLCOVÁ, L., TREMBOŠOVÁ, M., VALACH, M., VILINOVÁ, K. (2012). *Microgeography - the landscape around us*. Nitra: Constantine the Philosopher University in Nitra, 185 p. In Slovak, available on the Internet: www.kgrr.fpv.ukf.sk/images/publikacie/Dubcova%20a%20kol_Mikrogeografia_2012.pdf

LUKNIŠ, M. ED. (1972). *Slovakia 2, Nature*. Bratislava: Obzor, 917 p. In Slovak

LAUKO, V. (2003). *Physical geography of the Slovak Republic*. Bratislava: Mapa Slovakia School, 106 p. In Slovak

LAUKO, V., TOLMÁČI, L., DUBCOVA, A. (2006). *Human geography of the Slovak Republic*. Bratislava: Kartprint, 200 p. In Slovak

RAKYTOVÁ, I. (2007). *Human and regional geography of the Slovak Republic*, scripts. Ružomberok: Faculty of Education of the Catholic University in Ružomberok, 96 p. In Slovak

TOMČÍKOVÁ, I. (2020). *Geography of Slovakia*, scripts. Ružomberok: Verbum, 120 p. In Slovak

SÜLE, P. ED. (2005). *Encyclopedia of towns and villages in Slovakia*. Lučenec: PS – LINE, 960 p. In Slovak

PAPČO, P. (2015). *Historical soil erosion research and environmental education*. *Studies Scientifica Facultatis Paedagogicae Universitas Catholica Ružomberok*, 14, 4, p. 120-130, In Slovak

GEOLOGICAL MAP OF SR M 1 : 50 000. Bratislava: Dionýz Štúr State Geological Institute. Available on the Internet: <https://apl.geology.sk/gm50js>

STATE LIST OF SPECIALLY PROTECTED PARTS OF NATURE OF THE SR. Available on the Internet: <https://old.uzemia.enviroportal.sk/about>

STATISTICAL SETTLEMENT LEXICON OF THE SLOVAC REPUBLIC 2011. Available on the Internet: https://slovak.statistics.sk/wps/wcm/connect/cd33d897-7314-41d0-a12b-a95e537d7a39/Statisticky_lexikon_obci_Slovenskej_republiky_2011.pdf?MOD=AJPERES

ATLAS OF THE LANDSCAPE OF THE SLOVAK REPUBLIC (2002). Bratislava: MŽP SR, Banská Bystrica: SAŽP, 343 p.

Language of instruction:

Slovak

Notes:**Course evaluation:**

Assessed students in total: 27

A	B	C	D	E	FX
51.85	33.33	3.7	11.11	0.0	0.0

Name of lecturer(s): RNDr. Pavol Papčo, PhD.

Last modification: 28.10.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD118A/22	Course title: Geography of the World Ocean
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 1	Working load: 25 hours
Recommended semester/trimester: 6.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Passing the course requires a comprehensive approach to the issue of the World Ocean from the point of view of oceanography and regional geography, and the preparation of a semester paper. The overall evaluation consists of the assessment of the semester work (40%) and the final exam (60%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - The student will gain knowledge about the world ocean, about individual oceans and their marginal seas, inland and interisland seas, about gulfs, straits, islands and archipelagos, etc. - Knows the bottom topography and bathymetry of the oceans (mid-ocean ridges, deep trenches and basins, sills, benches, coral barriers, etc.) and understands the circulation systems of the oceans in terms of temperature and physico-chemical properties of seawater and marine zoogeography. - He has knowledge about the formation of oceans, about the distribution of sea water according to temperature, salinity and oxygenation. He will acquire knowledge about the influence of tidal forces on the swelling and dynamics of the ocean level and the thermohaline circulation of the oceans, and i. - It is oriented in the geography of the oceans according to the highest submarine mountains and ridges, the deepest trenches, the largest bays, the largest seas, shelves, the position of the largest river deltas, coral barriers, atolls, straits, land bridges, etc. - Evaluates the economic importance of sea resources (fisheries, hydrocarbon extraction, etc.) and the touristic importance of coastal countries.	
Course contents:	

<ol style="list-style-type: none"> 1. Definition of the world ocean and differences of individual oceans in terms of depth, temperature and salinity, current systems, sediments, etc. 2. Division of oceans and seas into shelf areas, marginal seas, interisland seas, inland (epicontinental seas), deep ocean basins, trenches, submarine mountains, sills and ridges, bays, straits, capes, islands, archipelagos, atolls, guyots, etc. 3. Geography of coastal areas: types of coast - beach (spits, sabkhas), barrier, abrasive - cliff, rio, mangrove, fjord, volcanic, shale, etc., 4. Transitional environments at the interface of continents and seas - river deltas, estuaries, mangroves, rock caves, etc. 5. Movement and dynamics of sea water - surface ripples, swells, spring and tidal waves, tsunamis, Global Ocean Current, sea currents (Gulf, Labrador, Brazilian, Falkland, Western Current, Kuroshio, etc.), upwelling and downwelling, etc. . 6. Biogeography of seas and oceans, zoogeographic provinces, migration corridors, etc. 7. Geography of the Pacific Ocean, ocean trenches of the circum-Pacific region, arcuate marginal seas (Bering, Okhotsk, Japanese, South China, Philippine, Coral, Tasman, etc.), islands and archipelagos (Australia, New Zealand, Hawaiian, Midway, Philippine, French Polynesia and i.). 8. Geography of the Atlantic Ocean, Mid-Atlantic ridge, Iceland and the islands of the North and Mid-Atlantic (Faroe Islands, Azores, Madeira, Canary Islands), ocean basins (Brazil, Angola, Newfoundland, etc.), ocean trenches (Puerto Rico), marginal seas (Mediterranean, Northern, Sargassum, Caribbean, etc.), gulfs (Mexican, Biscay, etc.). 9. Geography of the Indian Ocean, central Indian threshold, central Indian basin, trenches (Java), seas (Arabian, Andaman, etc.), gulfs (Bengal, Aden, Oman, etc.), etc. 10. Geography of the Arctic Ocean, Lomonosov ridge, basins (Canadian, Nansenova, etc.), seas (Chukotsky, Kara, Greenland, Norwegian, Beaufort, etc.), straits (Melavillov, Naresov, etc.), Queen Elizabeth Islands and i. 11. Geography of the Southern Ocean, the threshold of South Georgia, the South Sanwich Trench, the Australian-Antarctic basin, the seas (Weddel, Ross, Scottish, etc.), Dragon Strait, the Western Fringe, etc. 12. Climate of the oceans and seas, ocean-atmosphere interaction, radiation and heat balance of the oceans, air flow over the oceans (typhoons, cyclones, hurricanes, El Niño, etc.). 13. Ocean mineral wealth and industrial fishing.
<p>Recommended or required literature:</p> <p>SOTÁK, J., 2016: The world ocean today and in the geological past. In: Geological past and paleogeography of the Earth. Ed. Verbum, University of Ružomberok, ISBN 978-80-561-0415-6</p> <p>THURMAN, H.V., TRUJILLO, A.J., 2005: Oceanography. The mysterious world of seas and oceans. Prague: Computer Press, 475 p.</p> <p>TRIZNA, M., 2012: Climate and hydrogeography. Bratislava: Geografika, 154 p.</p> <p>RUDA, A., 2014: Climatology and hydrogeography for teachers. Masarik University, Brno, 257p</p> <p>JANSKÝ, B., 1992: Geography of seas and oceans. Karolinum, Prague, 138 p.</p> <p>KUKAL, Z., 1990: Basics of oceanography. 2nd ed. Prague: ČSAV, 592 p.</p> <p>ŠUJAN, M., 2021: Clastic sedimentology: depositional processes and facies analysis. Comenius University in Bratislava, 208 pp., ISBN: 978-80-223-5099-0. Available on the Internet</p>
<p>Language of instruction:</p> <p>Slovak</p>
<p>Notes:</p>

Course evaluation:					
Assessed students in total: 23					
A	B	C	D	E	FX
39.13	26.09	34.78	0.0	0.0	0.0
Name of lecturer(s): doc. RNDr. Ján Soták, DrSc.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD102B/22	Course title: Historical Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 2.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the degree of acquisition of the relevant knowledge, skills and competences of the student is carried out on the basis of theoretical and practical examinations during the semester teaching of the subject. During the semester, the student demonstrates his theoretical knowledge of the subject Historical Geography during discussions on individual topics. Final assessment: total percentage gain from the written test (50%) and semester paper (50%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - the student can describe the development of geography in ancient times - the student can describe the development of geography in the Middle Ages - describe the history of overseas discoveries - explain the consequences of overseas discoveries for the development of European society - describe the journeys of discovery of individual travelers - characterize the development of geography in the 18th century - to characterize the development of geography in the 19th century - explain the theory of environmental determinism - characterize the development of geography in the 20th century 	
Course contents: 1. Development of geography and geographical thinking. 2. Greek period (Herodotos, Anaximandros, Eratosthenes) 3. Roman period (Strabón, Ptolemy)	

4. Phoenicians 5. Arab period 6. Venice (Marco Polo), Genoa, Pisa 7. Overseas discoveries - Spain and Portugal (Christopher Columbus, Bartholomew Diaz, Vasco da Gama, Fernao Magalhaes, Amerigo Vespucci, Hernando Cortéz, Francisco Pizzaro) 8. England, Holland, France (Francis Drake, James Cook, Abel Tasman, John Cabot) 9. Discovery of Siberia (Stroganovs, Vitus Bering) 10. Modern travelers (Móric Beňovský, Emil Holub, Livingston, Stanley, Roald Amundsen, Robert F. Scott, Zigmund and Hanzelka) 11. Geography-modern science (Alexander von Humboldt, Carl Ritter, Matej Bel) 12. Environmental determinism and regional geography (Friedrich Ratzel, Alfred Hettner, Paul Vidal de la Blache, Richard Hartshorne) 13. The crisis of geography and its starting points in the 20th century					
Recommended or required literature: MICHAL, P. (1993). Selected chapters from the historical geography of Slovakia. UMB Banská Bystrica, 96 p. ISBN 80-85162-52-0 BAČÍK, M. (2012): Basics of political geography. Verbum, Catholic University of Ružomberok, 161 p. ČIEF, R. BOHÁČ, A. (2019): Regional geography of Africa. Publishing House of the Catholic University of Ružomberok, Verbum, Ružomberok, 2019, 141p. ISBN 978-80-561-0691-4					
Language of instruction:					
Notes:					
Course evaluation: Assessed students in total: 18					
A	B	C	D	E	FX
83.33	0.0	0.0	0.0	5.56	11.11
Name of lecturer(s): PaedDr. Rastislav Čief, PhD.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD111B/22	Course title: Human Geographic Topics in Current Social Discourse
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 5.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, texts of current social discourse will be assigned for study, which will be analyzed and reinterpreted by the students from the perspective of human geography. Students will be evaluated on the basis of regular presentation of the studied texts to their colleagues and on the basis of active participation in the discussion of these topics. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - is able to identify topics in current social discourse with the potential of human geography to contribute to their better understanding and solution, - can distinguish information in current social discourse from the point of view of its reliability, - can analyze and reinterpret current events in society and the economy from the perspective of human geography, - is able to present the findings evaluated in this way and argue in the context of the knowledge gained during the study of human geography. 	
Course contents: <ol style="list-style-type: none"> 1. Print, radio, television, podcasts, streaming services 2. Internet, social networks, 3. Journalism, reporting, journalism 4. Facts, information, misinformation, hoaxes, conspiracies 5. Traditional, mainstream, investigative media 6. Alternative, disinformation, conspiracy, tabloid, hybrid media 7. Polls of public opinion 8. Media literacy 9. Media education 10. Global education 11. Multicultural education 12. Critical thinking 	

13. Human geographic topics in current social discourse: discussion and argumentation.					
Recommended or required literature: KARASOVÁ, M. (2014): Media literacy of primary education pupils. Verbum, Catholic University, Ružomberok, 172 p. [ISBN 978-80-561-0174-2] PETRANOVÁ, D. - VRABEC, N. (2015): Media literacy of children and adolescents in Slovakia. (CD-ROM) University of St. Cyril and Methodius in Trnava, Trnava [ISBN 978-80-8105-769-4] PETRANOVÁ, D. - VRABEC, N. (2015): Media literacy of the adult population in Slovakia. (CD-ROM) University of St. Cyril and Methodius in Trnava, Trnava [ISBN 978-80-8105-759-5] https://issuu.com/medialnavychova.sk/docs/medialna_gramotnost_dospalej_popula CÁROVÁ, T. - NÁVOJSKÝ, A. - NOGOVÁ, M. et al. (2012): Global education at elementary school for the subject of geography. Methodical manual for teachers of the 2nd grade of elementary school. OZ Man in danger. Bratislava https://globalnevzdelavanie.sk/geo/ KÁRPÁTY, P. - KRÍŽ, M. - ŠUŠKA, P. - ZAJAC, L. (2015): We learn in global contexts Global education in the teaching of geography at secondary schools. Man in danger, o.z., Bratislava, 85 p. [ISBN 978-80-971607-7-7] https://globalnevzdelavanie.sk/wp-content/uploads/2019/08/cvo_gv_geografia_web.pdf SANDANUSOVÁ, A. - SCHLARMANNOVÁ, J. (2020): Critical and creative thinking in biology teacher training. University of Constantine the Philosopher in Nitra, Faculty of Education, Faculty of Natural Sciences, Nitra, 75 p. [ISBN 978-80-558-1637-1]					
Language of instruction:					
Notes:					
Course evaluation: Assessed students in total: 0					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
Name of lecturer(s): PaedDr. Rastislav Čief, PhD.					
Last modification: 27.10.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD105A/22	Course title: Human Geography 1 (Demogeography and Settlement Geography)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 1 hours per semester: 26 / 13 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 2.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, the student demonstrates the level of acquired knowledge and skills by solving partial tasks by processing the semester work (demographic characteristics of the selected district of the Slovak Republic). Final assessment: written test (work) (70%), semester work (30%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - the student understands the essence of the scientific field of demogeography, its importance in geographical research, - controls the topic of population movement (natural, mechanical, general movement, population reproduction), can calculate basic demographic indicators and interpret them, - knows how to navigate statistical data and materials related to the characteristics of the population, - get an overview of the structure of the population according to biological, economic and cultural characteristics, - the student understands the essence of the field Geography of Settlements, its importance in geographical research, - can define the basic concepts of residential geography, - has an overview of the development stages of cities, - understands the functions of the city, the spatial structure of the city, the influence of the city on its background, - can explain the difference between compact and scattered rural settlements 	
Course contents:	

Population geography:

1. Basic terminology, selected methods, position in the system of geographical or social sciences. Censuses, statistics on the state and movement of the population, sample surveys
2. Population development in the world (neolithic revolution, industrial revolution, global revolution of modern times). Population projections (UN, World Bank, US Census Bureau)
3. Population distribution and population density
4. Natural movement (birth rate, mortality rate, marriage rate, divorce rate, abortion rate)
5. Geographical mobility (migratory movement) and overall population movement
6. Model of the demographic cycle (theory of the first and second demographic transition)
7. Racial, gender and age structure of the population. Selected economic characteristics of the population structure. Ethnic and linguistic structure of the population. Religious structure of the population.

Geography of settlements

8. Geography of settlements, its position in the system of sciences, subject, division, goals, research methods
9. Creation and development of cities, pre-industrial cities; Cities of the industrial age. Cities from the post-industrial era to the present (urbanization processes)
10. Geographical location of cities and functions of cities; Spatial structure of the city (floor plan of the city, internal functional division of the city), urban growth. Settlement systems (relationship between the city and its infrastructure, etc.), hierarchical structure of cities (Zipf curve)
11. Geography of rural settlements, basic terms, Location and functions of rural settlements.
12. Dispersion criteria and compactness of rural settlement. Dispersed settlement in Slovakia.
13. Compact rural settlements, morphogenetic types of rural settlements

Recommended or required literature:

- BAČÍK, M. (2010). Basics of demogeography. Verbum, KU in Ružomberok, 230 p.
- BAČÍK, M. (2015). Basics of statistics for geographers. Matej Bel University, 2007, 1st ed. 122 p. ISBN 978-80-8083-502-6
- MLADEK, J. ET AL. EDS. (2006). Population Atlas of Slovakia. Comenius University in Bratislava, Bratislava, 168 pp., ISBN: 80-223-2190-7 (one of the co-authors is P. Hurbánek)
- JURČOVÁ, D. (2005). Dictionary of demographic terms. Edition: Akty. INFOSTAT – Institute of Informatics and Statistics, Demographic Research Center, Bratislava, 71 p. ISBN 80-85659-40-9. Available on the Internet: http://www.infostat.sk/vdc/pdf/slovník_2verdd.pdf
- BLEHA B., NOVÁKOVÁ G. (2010). Practicum in demogeography and demography. Geographics, Bratislava, 138 pages.
- VYSTOUPIL, J. (2004). Basics of demography. Masaryk University in Brno, Faculty of Economics and Administration, Brno, 2004. Available online: https://is.muni.cz/el/econ/jaro2015/BPR_DEMO/um/Zaklady_demografie_2004.pdf
- MLÁDEK J., KUSEDOVÁ D., MARENČÁKOVÁ J., PODOLÁK P., VAŇO B. EDS. (2006). Demographic analysis of Slovakia. University of Bratislava, Bratislava, 221 p. (one of the co-authors is P. Hurbánek)
- BEZÁK, A. (1990). Functional urban regions in the settlement system of Slovakia. Geographical magazine, vol. 42, p. 57 – 73. Available on the Internet: https://www.sav.sk/journals/uploads/03241150GC_1990_1_4_Bezak.pdf
- KLAPKA, P. (2019). Regions and regional taxonomy: concepts - approaches - applications. Palacký University in Olomouc, ISBN 978-80-244-5448-1, EAN 9788024454481, 460 pp., Olomouc
- POUŠ, R. (2013). Basics of city geography, Banská Bystrica, Belianum, 240 p. available online: <https://www.fpv.umb.sk/app/cmsFile.php?disposition=i&ID=20384>
- TOUSEK, V., KUNC, J., VYSTOUPIL, J. et al. (2008): Economic and social geography. Aleš Čeněk Publishing House, Pilsen, 411 p.
- RAKYTOVÁ, I. (2008): Rural municipalities of the Banská Bystrica district (their demographic and settlement-geographic characteristics until 2001). KU, Ružomberok, 116 p. + attachments on CD. ISBN 978-80-8084-328-1
- ZUBRICZKÝ, G. (2005). Rural Geography 1. Faculty of Natural Sciences, UK, Bratislava, ISBN 80-969338-3-3
- SPIŠIAK, P. AND COL. (2005). Agro-rural structures of Slovakia after 1989. Geo-grafika, Bratislava, 186 pp., ISBN 80-969338-4-1
- HURBÁNEK, P. (2005). Development and new approaches in rural interpretations: spatial aspect, peripherality and concentration of the settlement system. Spišiak, P. et al. Agro-rural structures of Slovakia after 1989. Geo-grafika, Bratislava, p. 95-114, ISBN 80-969338-4-1
- Internet sources:
- <http://enviroportal.sk/dpsir/dpsir> – page about the urbanization of the Slovak Republic
- <http://maps.grida.no>
- <http://www.uzemneplany.sk>
- <http://www.uwmc.uwc.edu/geography/demotrans/demoass.htm>
- <http://www.prb.org>
- <http://www.demografie.info>
- <http://hdr.undp.org/> - UN human development report
- <http://epp.eurostat.ec.europa.eu>
- <http://laborsta.ilo.org>
- <http://www.population-growth-migration.info>
- <https://data.statistics.sk/viz/html/sk.html> - SR municipalities, visualization of statistics
- <https://ourworldindata.org/> - visualization of geographic data in graphs and maps
- https://knowledge4policy.ec.europa.eu/atlas-migration_en - interactive migration atlas

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 26					
A	B	C	D	E	FX
0.0	26.92	15.38	26.92	26.92	3.85
Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc., PaedDr. Rastislav Čief, PhD.					
Last modification: 30.10.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD108A/22	Course title: Human Geography 2 (Geography of the Production Sphere)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 2 hours per semester: 26 / 26 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 3.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, homework will be assigned during the exercises and students will complete two partial written examinations. The final exam for all the material covered in the given subject will consist of a written examination and an oral exam. The overall assessment will include the assessment of homework, midterms, a final written examination and an oral exam. Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - can explain the basic characteristics of the primary and secondary sectors with an emphasis on their spatial aspects and regularities in the localization of individual activities, - through the synthesis of acquired knowledge about the physical-geographical and human-geographical spheres, he understands vertical (between individual partial geospheres) and horizontal (in space on a local to global scale) relationships, bonds and interactions in the cultural landscape on specific examples of objects, phenomena and processes of the primary and secondary sectors, and indirectly throughout the economy and society, - can explain the regularities of the spatial structure of the human-geographic sphere from the area of primary and secondary sector industries and relevant localization theories and factors, - master the basic methods and techniques of collection, processing, visualization, analysis and synthesis of spatial qualitative and quantitative human geographic data from the primary and secondary sectors and the interpretation of the results of these methods. 	
Course contents:	

1. The position of the geography of agriculture, forestry, industry and other branches of the primary and secondary sectors in the system of geographical sciences.
2. Object and subject of study.
3. Basic characteristics, emergence and development of these industries.
4. Tendencies in the development of these industries and their spatial structure in the past and in the present (examples from Slovakia, Europe and the rest of the world).
5. Map of land use and landscape cover.
6. Typology of these industries.
7. Location factors in these industries.
8. Localization theories in these industries.
9. Agricultural regionalization.
10. Agricultural complex.
11. Territorial industrial units.
12. The relationship between these industries and the environment.
13. Investigation of relationships between human-geographical variables from the primary and secondary sectors.

Recommended or required literature:

KOREC, P. - RUSNÁK, J. (2018): Approaches to human geography: philosophy, theory, context. Comenius University in Bratislava, Bratislava, 239 p.

SPIŠIAK, P. (2007): Basics of the geography of agriculture and forestry. 3rd amended edition. Comenius University in Bratislava, Bratislava, 154 p. [ISBN 978-80-223-2296-6]

TOUŠEK, V. - KUNC, J. - VYSTOUPIL, J. - DANĚK, P. - KLAPKA, P. - MULÍČEK, O. - SEIDENGLANZ, D. - SZCZYRBA, Z. - VANČURA, M. - VĚŽNÍK, A. - VITURKA, M. - TONEV, P. (2008): Economic and social geography. Aleš Čeněk Publishing House, Pilsen, 416 p. [ISBN 978-80-7380-114-4]

MLADEK, J. et al. (1993): Poprad Region: Geographical structures of socioeconomic activities. Comenius University in Bratislava, Bratislava, 207 p. [ISBN 8022304832]

LAUKO, V. - TOLMÁČI, L. - DUBCOVÁ, A. (2006): Human geography of the Slovak Republic. 1st ed. Kartprint, Bratislava, 200 p. [ISBN 80-88870-56-9]

DUBCOVÁ, A. - LAUKO, V. - TOLMÁČI, L. - CIMRA, J. - KRAMÁREKOVÁ, H. - KROGMANN, A. - NEMČIKOVÁ, M. - NÉMETHOVÁ, J. - OREMUSOVÁ, D. - GURŇÁK, D. - KRIŽAN, F. (2008): Geography of Slovakia (CD-ROM). University of Konstantin Filozof, Faculty of Natural Sciences, Nitra, 348 p. [ISBN 978-80-8094-422-3] <http://www.kgr.fpv.ukf.sk/GSR/index.htm>

KOREC, P. et al. (1997): Regions and districts of Slovakia: New administrative division. Q111, Bratislava, 392 p. [ISBN: 80-85401-58-4]

SPIŠIAK, P. - KUSEDOVÁ, D. - PAVLIČKOVÁ, K. - HALÁS, M. - KOLÉNY, M. - ZUBRICZKÝ, G. - ŠVOŇAVEC, M. - HURBÁNEK, P. - PAEUCH, T. - LABUDA, M. (2005): Agro-rural structures of Slovakia after 1989. Geo-grafika, Bratislava, 186 p. [ISBN 80-969338-4-1]

DŽUPINOVÁ, E. - HALÁS, M. - HORŇÁK, M. - HURBÁNEK, P. - KÁČEROVÁ, M. - MICHNIAK, D. - ONDOŠ, S. - ROCHOVSKÁ, A. (2008): Periphery and spatial polarization in Slovakia. Geografika, Bratislava, 183 p. [ISBN 978-80-89317-06-6]

HURBÁNEK, P. - PAZÚR, R. (2006): Land use changes in the municipalities of Legnava and Litmanová in the Slovak part of the Slovak-Polish border between 1871/73 and 2005. In: Kraft, S. - Mičková, K. - Rypl, J. - Švec, P. - Vančura, M. (eds.): Czech geography in the European space, XXI. Congress of the Czech Geographical Society. University of South Bohemia, České Budějovice, p. 1143-1148 [ISBN 978-80-7040-986-2] https://www.researchgate.net/profile/Pavol-Hurbanek-2/publication/285307928_Land_Use_Changes_in_the_Communes_of_Legnava_and_Litmanova_in_the_Slovak_Part_of_the_Slovak-Polish_Borderland_in_187173-2005_in_Slovak/links/589c6a7992851c599c93ab3e/Land-Use-Changes-in-the-Communes-of-Legnava-and-Litmanova-in-the-Slovak-Part-of-the-Slovak-Polish-Borderland-in-1871-73-2005-in-Slovak.pdf

RAKYTOVÁ, I. (2007): Human and regional geography of the Slovak Republic. Faculty of Education of the Catholic University, Ružomberok, 96 p. [ISBN 9788080841522]

RAKYTOVÁ, I. (2010): Basics of geography 2. Basics of human geography and regional geography of the world and the Slovak Republic. Verbum, Ružomberok, 300 p. [ISBN 9788080845315]

POPJAKOVÁ, D. - MINTÁLOVÁ, T. (2019): Industry 4.0, what preceded it and what characterizes it - geographical contexts, Acta Geographica Universitatis Comenianae, Vol. 63, No. 2, pp. 173-192 [ISSN 1338-6034]

http://www.actageographica.sk/stiahnutie/63_2_03_Popjakova_Mintalova.pdf

KOREC, P. - POPJAKOVÁ, D. (2019): Industry in Nitra: global, national and regional context. Comenius University in Bratislava, Bratislava, 210 p. [ISBN 978-80-223-4829-4] http://www.humannageografia.sk/stiahnutie/nitra_prijem_korec_popjakova_2019.pdf

LAUKO, V. - POTOMOVÁ, J. (2009): The potential of the Ružomberok district and its influence on the development of industry. Disputationes Scientifcae Universitatis Catholicae in Ružomberok, Vol. 9, No. 4/B, pp. 134-139

LAUKO, V. et al. (2014): Basics of human geography of Slovakia. Comenius University in Bratislava, Bratislava, 154 p. [ISBN 978-80-223-4829-4]

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 36					
A	B	C	D	E	FX
11.11	55.56	16.67	2.78	11.11	2.78
Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc.					
Last modification: 27.10.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD113A/22	Course title: Human Geography 3 (Geography of Non-production Sphere)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 2 hours per semester: 26 / 26 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 5.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, homework will be assigned during the exercises and students will complete two partial written examinations. The final exam for all the material covered in the given subject will consist of a written examination and an oral exam. The overall assessment will include the assessment of homework, midterms, a final written examination and an oral exam. Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - can explain the basic characteristics of transport, trade, services and tourism with an emphasis on their spatial aspects and regularities in the localization of individual activities, - through the synthesis of acquired knowledge about the physical-geographical and human-geographical spheres, he understands vertical (between individual partial geospheres) and horizontal (in space on a local to global scale) relationships, bonds and interactions in the cultural landscape on concrete examples of objects, phenomena and processes in the field of transport, trade , services and tourism, and indirectly in the entire economy and society, - can explain the regularities of the spatial structure of the human-geographic sphere from the field of transport, trade, services and tourism and the relevant localization theories and factors, - master the basic methods and techniques of collection, processing, visualization, analysis and synthesis of spatial qualitative and quantitative human geographic data from the field of transport, trade, services and tourism and the interpretation of the results of these methods. 	
Course contents:	

1. Basic features of transport: origin, development, essence, importance in the economy, classifications and structure.
2. Basic concepts of transport geography. Localization of transport routes (localization factors). Connecting two or more points by transport routes. Departments of transport networks. Spatial structural-morphological features of transport networks.
3. Trends in the development of transport in general, in individual types of transport, in Europe.
4. Geographical factors of the development of transport networks in Slovakia: location, natural conditions, west-east gradient, settlement hierarchy, area and historical development.
5. The main features of the development of transport in Slovakia after 1989: freight (demands, directions) and passenger (differentiation of the labor market and standard of living) transport, organizational structure, competences in public transport, goods).
6. Development of trade and services in Slovakia and in the world. Public and commercial services, their sectoral and spatial structure in the context of the spatial structure of other FG and HG geospheres (vertical and horizontal ties).
7. Characteristics of tourism (CR) as a branch of economy and CR geography as a partial analytical geographical discipline. CR as a subject of CR geography study.
8. Types, types and forms of CR. Active and passive CR and state economy (with an emphasis on European states). CR market structure and development trends. Territory marker.
9. Localization, implementation and selective prerequisites of CR.
10. Regions of tourism in the world.
11. Tourism regions in Slovakia.
12. Spatial differentiation and polarization of society and economy on a local to global scale and assessment of disparities.
13. Researching the relationships between human-geographical variables, especially from the field of tertiary sector industries.

Recommended or required literature:

KOREC, P. - RUSNÁK, J. (2018): Approaches to human geography: philosophy, theory, context. Comenius University in Bratislava, Bratislava, 239 p.

TOUŠEK, V. - KUNC, J. - VYSTOUPIL, J. - DANĚK, P. - KLAPKA, P. - MULÍČEK, O. - SEIDENGLANZ, D. - SZCZYRBA, Z. - VANČURA, M. - VÚŽNÍK, A. - VITURKA, M. - TONEV, P. (2008): Economic and social geography. Aleš Čeněk Publishing House, Pilsen, 416 p. [ISBN 978-80-7380-114-4]

LAUKO, V. - GURŇÁK, D. - KRIŽAN, F. - TOLMÁČI, L. (2011): Education in Slovakia in the context of regional disparities. Michal Vašek Publishing House, Prešov, 200 p. [ISBN 978-80-7165-856-6]

LAUKO, V. - TOLMÁČI, L. - DUBCOVÁ, A. (2006): Human geography of the Slovak Republic. 1st ed. Kartprint, Bratislava, 200 p. [ISBN 80-88870-56-9]

DUBCOVÁ, A. - LAUKO, V. - TOLMÁČI, L. - CIMRA, J. - KRAMÁREKOVÁ, H. - KROGMANN, A. - NEMČÍKOVÁ, M. - NÉMETHOVÁ, J. - OREMUSOVÁ, D. - GURŇÁK, D. - KRIŽAN, F. (2008): Geography of Slovakia (CD-ROM). University of Konstantin Filozof, Faculty of Natural Sciences, Nitra, 348 p. [ISBN 978-80-8094-422-3] <http://www.kgrr.fpv.ukf.sk/GSR/index.htm>

KOREC, P. et al. (1997): Regions and districts of Slovakia: New administrative division. Q111, Bratislava, 392 p. [ISBN: 80-85401-58-4]

DŽUPINOVÁ, E. - HALÁS, M. - HORŇÁK, M. - HURBÁNEK, P. - KÁČEROVÁ, M. - MICHNIAK, D. - ONDOŠ, S. - ROCHOVSKÁ, A. (2008): Periphery and spatial polarization in Slovakia. Geografika, Bratislava, 183 p. [ISBN 978-80-89317-06-6]

ROSINA, K. - HURBÁNEK, P. (2013): Availability of internet as an indicator of peripherality in Slovakia. Moravian Geographical Reports, Vol. 21, No. 1, pp. 32-40 <https://doi.org/10.2478/mgr-2013-0002>

RAKYTOVÁ, I. (2007): Human and regional geography of the Slovak Republic. Faculty of Education of the Catholic University, Ružomberok, 96 p. [ISBN 9788080841522]

RAKYTOVÁ, I. (2010): Basics of geography 2. Basics of human geography and regional geography of the world and the Slovak Republic. Verbum, Ružomberok, 300 p. [ISBN 9788080845315]

ČADIL, J. (2010): Regional economics: Theory and application. C. H. Beck, Prague, 176 p. [ISBN 978-80-7400-191-8]

BUČEK, M. - REHÁK, Š. - TVRDOŇ, J. (2010): Regional economy and politics. Iura edition, Bratislava, 269 p. [ISBN 978-80-8078-362-4]

BUČEK, J. - BORÁROSOVÁ, Z. - SOPKULIAK, A. (2010): Local finance and local economic development, 1st ed. Geo-grafika, Bratislava 198 p. [ISBN 978-80-89317-12-7]

HEŘMANOVÁ, E. - CHROMÝ, P. (2009): Cultural regions and the geography of culture: Cultural realities and culture in the regions of the Czech Republic. ASPI-Wolters Kluwer, Prague, 348 p. [ISBN 978-80-7357-339-3]

HRALA, V. (2002): Geography of tourism. Idea Servis, Prague, 173 p. [ISBN 8085970430]

HAMANERNEHOVÁ, I. (2008): Geography of tourism: Europe. Aleš Čeněk Publishing House, Pilsen, 271 p. [ISBN 9788073800932]

HORÁK, S. (2006): Geography of European tourism. Radek Drahný, Pardubice, 187 p. [ISBN 8090373410]

LAUKO, V. et al. (2014): Regional dimensions of Slovakia. Comenius University in Bratislava, Bratislava, 524 p. <http://www.regionalnageografia.sk/index.php?p=3265792585>

GURŇÁK, D. et al (2019): 30 years of the transformation of Slovakia. Comenius University in Bratislava, Bratislava, 462 p. ISBN 978-80-223-4859-1 http://www.regionalnageografia.sk/publikacie/pub/30_rokov/30_rokov_transformacie_SR.pdf

MATLOVIČOVÁ, K. (2015): Mark of territory. University of Prešov in Prešov, Grafotlach, Prešov, 320 p. [ISBN 978-80-555-1529-8]

[https://www.unipo.sk/public/media/16282/Znacka%20uzemia%20\(Place%20brand\)%20textbook%202015-%20Matlovicova.pdf](https://www.unipo.sk/public/media/16282/Znacka%20uzemia%20(Place%20brand)%20textbook%202015-%20Matlovicova.pdf)

KUNC, J. - MARYŠKA, J. - TONEV, P. - FRANTÁL, P. - ŠIVK, T. - HALÁS, M. - KLAPKA,

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 28					
A	B	C	D	E	FX
10.71	21.43	42.86	25.0	0.0	0.0
Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc., PaedDr. Rastislav Čief, PhD.					
Last modification: 27.10.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD101A/22	Course title: Introduction to Cartography
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 1 / 1 hours per semester: 13 / 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 1.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, students actively process assigned tasks and exercises (30%). They prepare questions for the evaluation method "student based questions learning" (30%). The exam will be realised in the form of a colloquium, in which the teacher and the student evaluate the work done on the exercises and tasks and the progress achieved in knowledge, skills and competences thanks to the passing two evaluation modules (40%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - a graduate of the Introduction to Cartography course can distinguish map attributes based on the description of the map creation process, and the subsequent construction of a map display from the compositional elements and content of a topographic and general geographic map, - is able to list cartographic tools for the analysis of map display (based on topographical, general geographic or thematic maps), can distinguish these tools from geographical claims that can be formulated based on the content of the map and its compositional elements - is able to formulate a wide range of claims on geographical topics from the content of the map in a specific map display, which can identify and use the above-mentioned knowledge, - can distinguish the local aspect from the regional and global aspect in the map display and use it in the geographical description of the topics that the map shows, - knows how to work with maps in school atlases and map displays available on the Internet when mastering the deepening of the curriculum of physical, human and regional cartography, - on the basis of the study material provided by the lecturer and the recommended literature, he has the competence of a critical approach to the innovations of the conceptual base of cartography for geographers with an emphasis on the use of the Internet (key words). 	
Course contents: 1. Conceptual base of cartography for geographers, map and mental map in geographical cognitive construction. Characteristics of the main map attributes (M,G,S) in general geographic maps of	

- the world, regions and states, in topographic and thematic maps. Their derivation from the map creation process
2. Topographical and general geographic map content - features of the mathematical basis, topography, altimetry and map description, map reading and orientation according to map content - points of interest (POI), routes, GPS and navigation, location (rel, abs)
 3. Map identification, cartographic tools for map composition, compositional elements (necessary, important and supplementary, map features and their attributes (graphic unit and semantic reference, meaning and location on the map, floor plan and use of scale (areal, line, figurative and their combinations
 4. Thematic map, topographical or general geographic background and thematic layers, graphic operations
 5. Earth's axis, equatorial plane and main parallels. Division of the Earth into hemispheres. Orientation on planet Earth, landmarks and lines and geographic coordinates, finding geographic coordinates in maps, absolute position
 6. Shape and dimensions of the Earth, characteristics of the planet's surface (continents, oceans and seas, share of the planet's surface area on land and water surface). Display of global processes and phenomena on thematic maps of the world in the school atlas of the world. Their classification as components of the landscape sphere
 7. Map scale, types, tasks for working with scales, examples with scales, marginal accuracy of scale. Plan reference of the map symbol and scale of the map.
 8. Maps of regions and states in the school atlas. The four components of their content (characters of the mathematical basis, topography, altimetry and map description) and the classes of geographical features that can be found in general geographic maps from prehistoric times to today - specific examples of maps
 9. The content of the topographic map in comparison with the content of the general geographic map. Relief in a topographic map, its expression and the use of contour lines in graphic constructions (slopes, valleys and gradient curve, transverse profile of the relief, fragmentation of the relief, hypsographic curve)
 10. Topographic map as a basis for tourist maps and car maps. Availability of a class of maps with a topographic background on the Internet
 11. Means of expression for the topographical or general geographical content of maps (characters of the mathematical basis, topography, elevation and map description) and compositional elements of maps using the example of the Slovak map work, school maps and atlases, and maps on the Internet
 12. Complex analysis of the thematic map (identification, compositional elements, background, methods of map expression, means of expression as a tool for description and analysis of thematic geographical information in the thematic map)
 13. Concrete examples of the possibilities of using maps in five basic areas related to geographic education (1- basics of map reading, 2 - basics of map orientation, 3 - map in geography, 4 - map in school, 5 - map for the public)

Recommended or required literature:

- NIŽNANSKÝ, B. (2012-2020): Basics of cartography for geographers. Study texts and worksheets in electronic form (Map information object 40 p., Mathematical basis of the map 40 p., System of map signs 40 p., Use of maps 15 p. - continuously updated, supplemented with materials for exercises.
- KRTIČKA, L. (2007): Introduction to cartography. Ostrava: University of Ostrava in Ostrava. 87 p. Available on the Internet.
- JAKUBÍK, J. (2010): Basics of cartography and topography. College scripts. Banská Bystrica: Faculty of Natural Sciences UMB, 144 p. Available on the Internet.

Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 47					
A	B	C	D	E	FX
4.26	12.77	25.53	48.94	8.51	0.0
Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD115A/22	Course title: Introductory Observational Teaching Practice
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 5.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the level of acquired knowledge, skills and competences is carried out by the practice methodology based on the assessment of the student by the trainee teacher and the evaluation of the submitted pedagogic diary. In the course of the semester, the student demonstrates theoretical knowledge in the preparation of pedagogical diaries, in the processing of lesson analyses. Practically, he participates in listening to geography lessons taught by a practicing teacher at a primary or secondary school. Then, together with the trainee teacher, he analyzes the lessons he participated in (implementation takes place in groups). The preparation of pedagogic diaries and the analysis of lessons with a trainee teacher are evaluated. 10 listening sessions (teacher), 8 hours of discussions with a practice teacher.	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - is able to observe, analyze and record in hospital records and pedagogical diaries the pedagogical and psychological aspects of the educational process, - is able to observe the work of the teacher in the lesson, the work and the curriculum, the choice of methods and means, as well as the level of management of the students' learning and learning activity, - can analyze lessons in cooperation with a trainee teacher. hours and independently prepare a pedagogical journal.	
Course contents: - The student will participate in 10 geography lessons led by a practicing teacher at a selected primary or secondary school - The student observes the educational process in a complex form, observes the conditions in the school, focuses on the pedagogical documentation and describes the observed phenomena in the pedagogical diary - The student together with the training teacher will analyze the given lessons (8 lessons). - The student submits a pedagogical diary processed according to the requirements of the trainee teacher and the practice methodology	

Recommended or required literature:

GNOTH, M. et al. (2003). Pedagogical practice for students of teacher combinations, PriF UK Bratislava, 140 p. MADZIKOVÁ, A. KANCÍR, J. (2015). Didactics of geography. PU Prešov, 198 p. ČIŽMÁROVÁ, K. (2008). Didactics of geography 1. Banská Bystrica: FPV UMB. ČIŽMÁROVÁ, K. (2006). Didactics of geography 2. Banská Bystrica: FPV UMB. LIKAVSKÝ, P. (2006). General didactics of geography. Bratislava., PriF UK. TOMČÍKOVÁ, I. (2010). The position and content of the physical geography curriculum in the geography textbook for the 1st year of grammar schools. Geography: magazine for primary, secondary and higher schools, vol. 18, no. 2, p. 69-71. ISSN 1335-9258 TOMČÍKOVÁ, I. (2010). Education reforms and geography in grammar schools, Disputationes Scientifcae Universitatis Catholicae in Ružomberok, vol. 10, no. 2, p. 12-15. ISSN 1335-9185. TOMČÍKOVÁ, I. (2011). Position of branch didactics in the system of sciences (example of didactics of geography). In: Proceedings of the international conference Interdisciplinary dialog of union didactics, Verbum - publishing house of the Catholic University in Ružomberok, 2011, p. 1-7. ISBN 978-80-8084-690-9 GEOGRAPHY TEXTBOOK FOR PRIMARY AND SECONDARY SCHOOLS

Language of instruction:

Slovak

Notes:**Course evaluation:**

Assessed students in total: 27

A	B	C	D	E	FX
62.96	18.52	11.11	7.41	0.0	0.0

Name of lecturer(s): RNDr. Ivana Tomčíková, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD105B/22	Course title: Karst and Caves
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 3.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the degree of acquisition of relevant knowledge, skills and competencies of the student is carried out based on the evaluation of the student's ongoing tasks during the semester and on the basis of the evaluation of the written test. During the semester, active participation in seminars is required in the form of preparation and presentation of seminar exercises on assigned topics. At the end of the semester, the student proves his theoretical knowledge in the form of a written test. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the course, the student will acquire the following knowledge, skills and competences: - The student will master the overall knowledge of the development, use and protection of karst landscapes and caves, which are among the most vulnerable types of natural systems with minimal to impossible regenerative capacity. - He understands the basic laws of the development of karst and caves, he can clarify the strong interactions between the components of the landscape sphere during their development, as well as the reasons for their vulnerability and the need for a comprehensive approach to their protection. - Can identify basic geological, geomorphological and hydrological phenomena and formations in the karst landscape and clarify their mutual connections and influence on other components of the landscape sphere. - It has collective knowledge about the expansion and spatial differentiation of the development of karst and caves in Slovakia and in the world. - He can apply the acquired knowledge in teaching geography at primary and secondary schools, including educational excursions.	
Course contents: 1. Karst and the process of karstization, geological and physical-geographic conditions of karst development, lithological types of karst. 2. Karst hydrography, hydrological phenomena in karst. 3. Surface forms of karst georelief. 4. Morphostructural types of karst. 5. Morphological and genetic types of caves. 6. Hydrographic regularities and phases of cave development, geomorphological forms in caves. 7. Cave chemogenic and clastic sediments. 8. Cave climate, glaciated caves. 9. Cave biota, paleontological findings in caves. 10. Paleogeographic development of the landscape recorded in karst and caves. 11. Settlement and use of caves, archaeological finds and cultural	

monuments in caves. 12. Karst landscape as a specific natural geosystem, environmental problems in karst. 13. Karst and caves in Slovakia and in the world, protection of karst and caves.

Recommended or required literature:

BELLA, P. (2008). Caves as natural geosystems – geoecological research and environmental protection. ŠOP SR, SSJ, Liptovský Mikuláš, 167 p. JAKÁL, J. (1993). Geomorphology of the Karst of Slovakia. Slovak Karst, 31, 13–28. JAKÁL, J. AND COL. (2005). World heritage caves in Slovakia. SSJ, Liptovský Mikuláš, 159 p. BELLA, P. (2011). Genetic types of caves. Verbum, Ružomberok, 220 p. BELLA P. (2016). Caves in Slovakia – genetic types and morphology. Verbum, Ružomberok, 124 p. JAKÁL, J. (2002). Karst landscape, its characteristics and resistance to anthropogenic influences. Geographical Journal, 54, 4, 381–392. Available online: <https://www.sav.sk/journals/uploads/05131245Jak%C3%A1l.pdf> BELLA, P. (2012). Vulnerability, ecostabilizing factors and disturbance of the cave environment. Geographical Journal, 64, 3, 201–218. <https://www.sav.sk/journals/uploads/03101237Bella.pdf>

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 21

A	B	C	D	E	FX
38.1	23.81	28.57	4.76	0.0	4.76

Name of lecturer(s): doc. RNDr. Pavel Bella, PhD.

Last modification: 06.10.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD106B/22	Course title: Natural Hazards and Risks in the Landscape
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 3.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Elaboration of a semester paper in the range of 5-10 pages thematically focused on natural hazards in the vicinity of the student's living place. Final assessment: total percentage gain from the evaluation of the content and level of the semester work (80%) and the presentation of the semester work (20%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - has knowledge regarding real and potential natural hazards, especially in the landscape of Slovakia, but also in other parts of the world, - is able to assess the vulnerability of a particular part of the environment and evaluate the human influence on its activation, - identifies natural hazards in the regions of Slovakia, - knows the possibilities of application solutions in case of specific natural hazards. 	
Course contents: <ol style="list-style-type: none"> 1. Natural hazards: introduction, basic questions 2. Landslides: classification, triggering factors 3. Landslides: options for solutions 4. Floods: classification, triggering factors, historical floods 5. Floods: options for solutions 6. Accelerated wind and biogenic erosion, options for solutions 7. Accelerated water erosion: classification, triggering factors, historical erosion 8. Accelerated water erosion: options for solutions 9. Avalanches 10. Wind calamities 11. Hazards of karst and mining areas 12. Earthquake and volcanism 13. Presentations of semester works 	

Recommended or required literature:

LUKNIŠ, M. ED. (1972). Slovakia 2, Nature. Bratislava: Obzor, 917 p. In Slovak

LAUKO, V. (2003). Physical geography of the Slovak Republic. Bratislava: Mapa Slovakia School, 106 p. In Slovak

ŠABO, M. (2010). Introduction to the issue of assessing natural threats. Acta Geographica Universitatis Comenianae, 54, 2, p. 193-205. In Slovak, available on the Internet: http://www.actageographica.sk/stiahnutie/54_2_03_Sabo.pdf

BELLA, P. (2008). Caves as natural geosystems – geoecological research and environmental protection. Liptovský Mikuláš: ŠOP SR, SSJ, 167 p. In Slovak

PAPČO, P. (2011). Gully erosion in time – maps versus correlated sediments (case study). Geographical journal, 63, 3, p. 287-298. In Slovak, available on the Internet: <https://www.sav.sk/journals/uploads/03101341GC-11-3-Papco.pdf>

PAPČO, P. (2015). Historical soil erosion research and environmental education. Studies Scientifica Facultatis Paedagogicae Universitas Catholica Ružomberok, 14, 4, p. 120-130, In Slovak

BOLTIŽIAR, M. (2009). The influence of georelief and morphodynamic processes on the spatial structure of the high mountain landscape of the Tatras. Nitra: Constantine the Philosopher University in Nitra, Institute of Landscape Ecology SAS, Nitra branch, 158 p. In Slovak, available on the Internet: www.kgrr.fpv.ukf.sk/images/publications/Monografia_Boltiziar_Tatras_geomorfologia_dialkovy_prieskum_Zeme_GIS.pdf

ATLAS MAPS OF THE STABILITY OF SLOPES SR. Bratislava: Dionýz Štúr State Geological Institute. Available on the Internet: <http://apl.geology.sk/atlassd>

ATLAS OF THE LANDSCAPE OF THE SLOVAK REPUBLIC (2002). Bratislava: MŽP SR, Banská Bystrica: SAŽP, 343 p.

Language of instruction:

Slovak

Notes:**Course evaluation:**

Assessed students in total: 37

A	B	C	D	E	FX
91.89	2.7	0.0	0.0	0.0	5.41

Name of lecturer(s): RNDr. Pavol Papčo, PhD.**Last modification:** 03.11.2022**Supervisor(s):**

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD103A/22	Course title: Physical Geography 1 (Geology for Geographers)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 1 hours per semester: 26 / 13 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 1.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Introductory state of geoscientific knowledge in students will be reviewed at the beginning of the semester by an entrance test and verified by the level of acquired knowledge during the exit examination, which will be included in the evaluation of the final oral exam. The student takes the final exam only if he achieves an evaluation of more than 40 points out of a possible 100 points during the exit examination. During the oral exam, the student answers three out of a selection of 54 questions and receives a final grade from the FG1 subject. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - the student understands the position of the Earth in the planetary system and its origin - the student knows the structure of the lithosphere, the composition of the earth's crust, endogenous processes and the geodynamic development of the Earth, - knows the processes of formation and deformation of rocks, formation of minerals and accumulation of sediments. He classifies abiotic natural products into rock and mineral systems. - understands the distribution of land and oceans as a result of continental drift and global tectonics. He knows the mechanisms of movement of tectonic plates, types of lithospheric interfaces, and causes of seismic activity - knows the regional-geological division of Slovakia, understands the geological structure of the Western Carpathians and their position within the geological units of Europe - knows the historical development of the Earth, the geological time scale and geological periods. 	
Course contents: 1. Earth as a body of the planetary system, characteristics of the planets, composition and differentiation of the mass of the solar system and cosmological hypotheses of its origin and formation. 2. Chemical and material composition of the Earth, properties, origin and classification of minerals, rock-forming minerals and distribution of rocks.	

3. Structure of the Earth, geosphere and their interfaces, composition and structure of the earth's crust and lithosphere, MOHO, earth's mantle and discredencies, earth's core, mechanism of generation of earth's magnetism.
4. Endogenous processes: magmatism and volcanism, plutonic, subvolcanic and volcanic bodies, magmatic crystallization and igneous rocks, lavas, volcanoes and pyroclastic products.
5. Metamorphism and deformation of rocks, temperature-pressure conditions of rock transformation, crystalline slates, continuous and discontinuous structures, geometry of folds, fault tectonics, dips, slips, nappes, etc.
6. Exogenous processes: denudation and erosion of the earth's surface, rock cycle - weathering, transport, sedimentation and lithification, facies and environments of formation of sedimentary rocks, etc.
7. Geodynamic phenomena, mountain-forming and land-forming processes, seismicity, distribution of earthquakes according to origin, depth and intensity, distribution of earthquakes, etc.
8. Lithospheric plate tectonics, evidence of continental drift, driving forces of plate movement, passive and active continental margins, oceanic and continental plates and their interfaces.
9. Divergent boundaries, riftogenesis, mid-ocean ridges, creation and expansion of oceans. Convergent lithospheric interfaces, subduction zones, deep-ocean trenches, volcanic arcs, collision of lithospheric plates, orogeny and formation of mountain ranges.
10. Historical geology, main stratigraphic terms - discordance, hiatus, transgression, regression, etc., principles and methods of determining the relative and absolute age of rocks.
11. The geological time scale and the main geological periods in the development of the Earth.
12. Geological structure of Europe - shields and slabs, Caledonian, Hercynian and Alpine orogenic systems. The position of the Western Carpathians in the system of Central European Alps.
13. Geological structure of the Western Carpathians, regional-tectonic division, units of the Tatra-Fatra, Vepor and Gemer zones, core mountain ranges, volcanic mountains, Neogene basins, Klippen belt and the Outer Western Carpathians units

Recommended or required literature:

- SOTÁK, J., 2016: Structure, composition and dynamics of the Earth. VERBUM – KU Ružomberok publishing house, ISBN 978-80-561-0416-3 (CD)
- SOTÁK, J., 2016: Geological past and paleogeography of the Earth. VERBUM – KU Ružomberok publishing house, ISBN 978-80-561-0415-6 (CD)
- BIZUBOVÁ, M., 1998: Fundamental geology for geographers. University scripts, Faculty of Science, UK, Bratislava, 135 p.
- BÓNOVÁ, K., 2017: Fundamental geology for geographers. University scripts, UPJŠ Košice, 123 p. Available on the Internet: https://uge-share.science.upjs.sk/webshared/uge_web_files/studium/ucebnice_skripta/Bonova
- HÓK, J., KAHAN, Š. & AUBRECHT, R., 2001: Geology of Slovakia. PRIF UK Bratislava, 46 pp., Available on the Internet.
- PLAŠIENKA, D (ed.), 2006: Geological structure and development of the Western Carpathians. 125 p. Available on the Internet.

Language of instruction:

Slovak

Notes:

Course evaluation:					
Assessed students in total: 49					
A	B	C	D	E	FX
14.29	18.37	18.37	20.41	18.37	10.2
Name of lecturer(s): doc. RNDr. Ján Soták, DrSc.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD104A/22	Course title: Physical Geography 2 (Geomorphology)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 1 hours per semester: 26 / 13 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 2.	
Level of study: I.	
Prerequisites: KGE/Ge-BD103A/22	
Requirements for passing the course: Verification of the degree of acquisition of relevant knowledge, skills and competencies of the student is carried out based on the evaluation of the student's ongoing tasks during the semester and on the basis of the evaluation of the written test and the final oral exam. During the semester, active participation in seminars is required in the form of preparation and presentation of seminar exercises on assigned topics. At the end of the semester, the student proves his theoretical knowledge first in the form of a written test. In order to participate in the final oral exam, it is necessary to obtain at least 60% of the points from the test. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - the student has basic knowledge of geomorphology and morphogeography, knows how to clarify relief-forming conditions and processes, knows the systematics of types and forms of georelief, understands the function of georelief in the landscape sphere, - understands and can present spatial laws differentiation of geomorphological forms and processes on the earth's surface, - recognizes geomorphological terrain shapes with an emphasis on the territory of Slovakia, uses topographic maps to identify and construct profiles of geomorphological forms, knows how to use literature and map materials to process the basic geomorphological characteristics of the selected territory, - can apply the acquired knowledge in a specific area and when teaching geography at primary and secondary schools.	
Course contents: 1. Object and subject of geomorphology and its position in the system of sciences, overview of development and division of geomorphology. 2. Endogenous and exogenous geomorphological processes. 3. Global structural geomorphology, morphostructures. 4. Structural geomorphology of land and oceans (basic morphostructures of land and structural types of georelief, basic morphostructures of the ocean floor). 5. Weathering, resistance of rocks to weathering. 6. Side processes and georelief alignment. 7. Geomorphological activity of rivers. 8. Morphogenesis of dissolution and suffusion processes. 9. Morphogenetic activity of snow, relief-forming activity of glaciers. 10. Cryogenic processes and forms. 11. Aeolian morphogenesis. 12. Geomorphological	

activity of oceans, seas and lakes. 13. Organisms and georelief of the Earth, geomorphological activity of man.					
Recommended or required literature: BIZUBOVÁ, M., ŠKVARČEK, A. (2009). Geomorphology. Faculty of Science, UK, Bratislava, 228 p. THURMAN, H.V., TRUJILLO, A.P. (2005). Oceanography. Computer Press, Prague, 479 p. JAKÁL, J. (1993). Geomorphology of the Karst of Slovakia. Slovak Karst, 31, p. 13-28. BELLA, P. (2011). Genetic types of caves. Verbum, Ružomberok, 220 p. KIRCHNER, K., SMOLOVÁ, I. (2010). Anthropogenic geomorphology. Palacký University, Olomouc, 287 p.					
Language of instruction: Slovak					
Notes:					
Course evaluation: Assessed students in total: 26					
A	B	C	D	E	FX
3.85	15.38	11.54	26.92	38.46	3.85
Name of lecturer(s): doc. RNDr. Pavel Bella, PhD.					
Last modification: 31.08.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD107A/22	Course title: Physical Geography 3 (Climageography and Hydrogeography)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 2 hours per semester: 26 / 26 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 3.	
Level of study: I.	
Prerequisites: KGE/Ge-BD104A/22	
Requirements for passing the course: Verification of the degree of acquisition of relevant knowledge, skills and competencies of the student is carried out based on the evaluation of the student's ongoing tasks during the semester and on the basis of the evaluation of the written test and the final oral exam. During the semester, active participation in seminars is required in the form of preparation and presentation of seminar exercises on assigned topics. At the end of the semester, the student proves his theoretical knowledge first in the form of a written test. In order to participate in the final oral exam, it is necessary to obtain at least 60% of the points from the test. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: # the student has basic knowledge of climate geography, the climate on Earth, individual meteorological elements (solar radiation, air temperature, air humidity, precipitation, air pressure, air flow), general circulation of the atmosphere and climatic zones, # the student has basic knowledge of hydrogeography, about hydrological balance and cycles, surface and subsurface waters, temporal and spatial differentiation of climatic and hydrological processes on Earth, # can statistically process data from climatological and hydrological observations, apply acquired knowledge in field and other exercises, use literature and other sources to process the basic characteristics of the climatic and hydrological conditions of the selected area, # can apply the acquired knowledge in a specific area and when teaching geography at primary and secondary schools.	
Course contents: 1. Definition and classification of meteorology and climatology. Atmosphere, its properties, composition and vertical division. Basic meteorological elements, climate-forming factors. 2. Solar radiation, changes in solar radiation passing through the Earth's atmosphere, Earth's radiation, the greenhouse effect of the atmosphere. Air temperature and its measurement. 3. Air humidity, evaporation and condensation. Atmospheric precipitation, their daily and annual course,	

distribution of annual totals of atmospheric precipitation on Earth. 4. Air pressure, basic pressure (baric) formations and their characteristics. Wind and its basic characteristics. 5. Air masses and atmospheric fronts, their division and basic characteristics. 6. General circulation of the atmosphere. 7. Climatic classifications and climatic zones on Earth, climatic classification of Slovakia. 8. Definition and classification of hydrology. Hydrological balance, hydrological cycle on Earth, hydrological cycle in the basin. 9. Hydrology of surface flows, hydrography and hydrometry. 10. Subsurface water. 11. Hydrology of stagnant waters (lakes and artificial water reservoirs). 12. World ocean, its distribution and importance, pollution of oceans and seas. Water masses and dynamics of the world ocean (ocean currents, their origin, distribution and importance). 13. Hydrological regions of the world ocean.

Recommended or required literature:

TRIZNA, M. (2012). Climatography and hydrogeography. Geo-grafika, Bratislava, 154 p.
 TRIZNA, M. (2007). Meteorology, Climatology and Hydrology for Geographers. Geo-grafika, Bratislava, 144 p. THURMAN, H.V., TRUJILLO, A.P. (2005). Oceanography. Computer Press, Prague, 479 p. ZAŤKO, M. (2011). Water resources, their use and protection. Faculty of Science, UK, Bratislava, 5 p. Available online: <http://www.fyzickageografia.sk/geovedy/texty/zatko.pdf>
 BELLA, P., HAVIAROVÁ, D. (2017). Types of cave lakes in Slovakia according to geological and geomorphological conditions and processes of their formation. Aragonite, 22, 2, 49–56. Available on the Internet: http://www.ssj.sk/user_files/Aragon22_2_web2.pdf

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 36

A	B	C	D	E	FX
19.44	16.67	11.11	27.78	19.44	5.56

Name of lecturer(s): doc. RNDr. Pavel Bella, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
 doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD110A/22	Course title: Physical Geography 4 (Pedogeography and Biogeography)
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 1 hours per semester: 26 / 13 Teaching method: on-site	
Credits: 3	Working load: 75 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites: KGE/Ge-BD107A/22	
Requirements for passing the course: During the semester, the student demonstrates his theoretical knowledge in the field of pedogeography and biogeography by drawing up profiles of soil types, checking their knowledge in the form of a written test and a knowledge test of selected plant species. Subsequently, he demonstrates practical skills in the field with the ability to identify selected soil species, soil types and plant species and communities in the country. Final assessment: total percentage gain from examinations during the semester (50%) and the exam in the form of a written test and an oral examination (50%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - understands soil as a separate natural creation created by the specific interaction of soil-forming factors, - knows the physico-chemical properties of soil and its organic and inorganic components, - has an overview of the soil textures and soil types of the Earth and Slovakia, has an overview of the zonal distribution of soils in the horizontal and vertical direction, or about azonal soils, - masters the methodology of identifying selected soil textures and types in the landscape, as well as the methodology of the basic principles of soil protection against accelerated soil erosion, - knows the rules of spatial differentiation of the biosphere, zonal distribution of biota on Earth and in Slovakia in horizontal and vertical directions, respectively. knows the conditions for the formation of azonal communities, - understands the basic relationships and ties between flora, fauna and environmental factors, understands the terms as biotope, ecosystem, - is able to identify selected plant species and communities in the landscape, - knows the basic principles of nature and landscape protection, its system at the national and transnational level, knows how to incorporate environmental education as a cross-cutting topic within geographical education	
Course contents:	

1. Pedogeography: pedogeography as a geographical discipline vs. pedology, the development of the understanding of soil as a separate natural creation
2. Formation and development of soil (pedosphere), soil-forming factors, physico-chemical properties of soil, organic and inorganic components of soil
3. Soil textures, spatial distribution in Slovakia, determination of soil texture in the field
4. Soil types, detailed profile characteristics
5. Spatial distribution of soil types in Slovakia and on Earth, determination of soil type in the field
6. Horizontal and vertical zonation of soils, azonal soils
7. Accelerated soil erosion, soil fund protection
8. Biogeography: biogeography as a geographical discipline vs. biology, components of the biosphere
9. Vertical zonation of vegetation in Slovakia, potential natural vegetation, real vegetation
10. Principles of spatial distribution of fauna, flora and fauna of the world ocean
11. Horizontal zonation of biota on Earth (geobiomes)
12. Basic relationships and links between flora, fauna and environmental factors; biotope, ecosystem
13. Nature and landscape protection, national level (SR, Nature and Landscape Protection Act), transnational level (NATURA 2000, UNESCO Man and the Biosphere Programme, UNESCO World Natural Heritage, Ramsar sites)

Recommended or required literature:

- MIČIAN, Ľ. (1972). Soils. In Lukniš, M. ed. (1972). Slovakia 2, Nature. Bratislava: Obzor, p. 361-402. In Slovak
- KRNÁČOVÁ, Z., HREŠKO, J., ĎUGOVÁ, O. (2008). Basics of pedology for ecologists and environmentalists. Nitra: Faculty of Natural Sciences UKF in Nitra, 190 p. In Slovak
- ČURLÍK, J., ŠURINA, B. (1998). Handbook of field survey and soil mapping. Bratislava: Soil Fertility Research Institute, 134 p. In Slovak
- LAUKO, V. (2003). Physical geography of the Slovak Republic. Bratislava: Mapa Slovakia School, 106 p. In Slovak
- PAPČO, P. (2011). Gully erosion in time – maps versus correlated sediments (case study). Geographical journal, 63, 3, p. 287-298. In Slovak, available on the Internet: <https://www.sav.sk/journals/uploads/03101341GC-11-3-Papco.pdf>
- PAPČO, P. (2015). Historical soil erosion research and environmental education. Studies Scientifica Facultatis Paedagogicae Universitas Catholica Ružomberok, 14, 4, p. 120-130, In Slovak
- PLESNÍK, P. (2004). General biogeography. Bratislava, Comenius University, 425 p. In Slovak
- LUKNIŠ, M. ED. (1972). Slovakia 2, Nature. Bratislava: Obzor; chapters Flora (p. 403-628), Fauna (p. 629-816), Nature and environment protection (p. 817-842), In Slovak
- LOŽEK, V. (2007). Mirror of the past: the Czech and Slovak landscape in the Quarter. Prague, Dokořán, 198 p. In Czech
- PROTECTED NATURE AREAS OF THE SLOVAK REPUBLIC. Available on the Internet: www.sopsr.sk/web/?cl=114
- STATE LIST OF SPECIALLY PROTECTED PARTS OF NATURE OF THE SLOVAK REPUBLIC. Available on the Internet: <https://data.sopsr.sk/chranene-objekty>
- ATLAS OF THE LANDSCAPE OF THE SLOVAK REPUBLIC (2002). Bratislava: MŽP SR, Banská Bystrica: SAŽP, 343 p.

Language of instruction:

Slovak

Notes:

Course evaluation:					
Assessed students in total: 19					
A	B	C	D	E	FX
26.32	5.26	26.32	5.26	15.79	21.05
Name of lecturer(s): doc. RNDr. Pavel Bella, PhD., RNDr. Pavol Papčo, PhD.					
Last modification: 03.11.2022					
Supervisor(s): Person responsible for the delivery, development and quality of the study programme: doc. RNDr. Pavel Bella, PhD.					

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD102A/22	Course title: Planetary Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 1 / 1 hours per semester: 13 / 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 1.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the degree of acquisition of the relevant knowledge, skills and competences of the student is carried out on the basis of theoretical and practical examinations during the semester teaching of the subject. During the semester, the student demonstrates his knowledge by completing tasks during individual exercises, or independent work in the form of homework solutions. Final evaluation: total percentage gain from the written test (50%) and the oral exam (50%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - the student can define the terms: star, planet, comet, moon, galaxy, orbit, ecliptic, perihelion, aphelion, - describe the position of the Earth in the Universe - describe the Earth's orbit around the Sun and its consequences - describe the rotation of the Earth around its axis and its consequences - explain the difference between a sidereal day and a solar day - explain the difference between a sidereal year and a tropical year - draw a diagram of the position of the Sun, the Earth and the Moon at full moon, new moon, I. quarter, III. quarters, during solar eclipses and lunar eclipses - give examples of the Coriolis force - calculate the zone and local time of any location on Earth - calculate the midday height of the Sun at individual parallels during the solstices and equinox days - explain the date change when the date border is crossed - clarify the issue of the creation of calendars (Julian, Gregorian) 	

- explain Kepler's laws
- clarify the interactions between the Earth and the Universe and their influence on the landscape sphere of the Earth.

Course contents:

1. The landscape sphere as an open system, the surroundings of the landscape sphere.
2. Basic regularities and connections.
3. The functioning of the Universe as a whole. Models of the development of the Universe.
4. A brief overview of the basic stages of the development of knowledge about the Earth and the Universe and a confrontation with the results of contemporary science.
5. Origin, development and characteristics of objects in the Solar System.
6. The problem of apparent and real movement of the Sun, Moon and other cosmic bodies.
7. The influence of cosmic and planetary factors and their consequences for the geographical sphere of the Earth.
8. The shape, weight, structure of the Earth's movements.
9. Time zones, date range and calendar.
10. Material and non-material component of the matter of the earth's body.
11. The influence of the surroundings of the landscape sphere on the distribution of energy falling on the Earth in time and space and the consequences in the form of temperature zones of the Earth.
12. Noon height of the Sun.
13. Issues of the influence of tidal phenomena and the Coriolis force in the components of the landscape sphere.

Recommended or required literature:

ČIEF, R., NIŽNANSKÝ, B., NIŽNANSKÁ, K. (2017). Geography - we start actively. (Teaching text in electronic form)

NIŽNANSKÝ, B., NIŽNANSKÁ, K. (2010). Basics of planetary geography. Verbum KU, Ružomberok

TOMČÍKOVÁ, I. (2010). Basics of Geography 1, Ružomberok

School atlas of the world

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 50

A	B	C	D	E	FX
20.0	30.0	16.0	16.0	6.0	12.0

Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc., PaedDr. Rastislav Čief, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD109A/22	Course title: Political Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 3.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Verification of the degree of acquisition of the relevant knowledge, skills and competences of the student is carried out on the basis of theoretical and practical examinations during the semester teaching of the subject. In the first part of the semester, the student demonstrates knowledge of the theory of political geography during discussions on individual topics. In the second part of the semester, students present term papers on individual selected political conflicts and lead a discussion about the conditions, actors, goals, progress and results of the given conflicts. Final assessment: cumulative percentage gain from the written test (50%) and semester paper (50%). Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - the student knows the issue of the state as a political region, its borders and can characterize the typology of states, - will explain the political-geographical aspects of international relations with an emphasis on their development after the collapse of the bipolar world, - he orients himself in the issue of the emergence of new states (document it with specific examples) and is able to analyze the political map of the world in a historical context, - understands and defines terms: geographical determinism, social Darwinism, Lebensraum, geopolitics, accession, cession, adjudication, territorial waters, monarchies, republics, imperial languages, - can explain: procedural steps of determining the state border, Wagner's border index,	

- can characterize: transcontinental migrations, world religions, global empires and integrations, horizontal division of state power,
- can give illustrative examples of political instability in the contemporary world,
- can handle professional work on a selected topic,
- can argue when discussing the given problem

Course contents:

1. Basic methodological issues (object, subject, selected research methods)
2. Brief development of political geography
3. Geopolitics (German, Anglo-Saxon, Russian)
4. State, state attributes, state territory (acquisition, loss), borders (typology and function of borders, hierarchical level of political borders, variability and evaluation of borders)
5. Political system, forms of sovereign state
6. Economic system, internal organization of the state, sovereignty (de jure, de facto)
7. Illustrative examples of political instability in the contemporary world. Classification of conflicts.
8. Conflict in the territory of the former Yugoslavia
9. Ukraine (Crimea, Donetsk, Luhansk)
10. Transcaucasia (Chechnya, South Ossetia, Nagorno-Karabakh)
11. Arab-Israeli conflict
12. ISIL (Syria, Iraq)
13. Kashmir (India, Pakistan)

Recommended or required literature:

BAČÍK, M. (2012): Basics of political geography. Verbum, Catholic University of Ružomberok, 161 p.

GURŇÁK, D. – BLAŽÍK, T. – LAUKO, V. (2007): Introduction to political geography, geopolitics and regional geography. Geo-grafika, Bratislava, 140 p.

ČIEF, R. BOHÁČ, A. (2019): Regional geography of Africa. Publishing House of the Catholic University of Ružomberok, Verbum, Ružomberok, 2019, 141p. ISBN 978-80-561-0691-4

HUNTINGTON, S. P. (2001): Clash of civilizations: the battle of cultures and the transformation of the world order. Prague: Rybka Publishers

Language of instruction:

Slovak

Notes:

When creating a semester work, it is advisable to use a world language.

Course evaluation:

Assessed students in total: 36

A	B	C	D	E	FX
47.22	13.89	19.44	11.11	5.56	2.78

Name of lecturer(s): PaedDr. Rastislav Čief, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD100B/22	Course title: Practicum in Applied Geology
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 2 hours per semester: 26 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 1.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Na absolvovanie praktika sú potrebné vedomosti z predmetu FG1. Konkrétnym výstupom týchto aplikácií je seminárna práca, ktorú študent spracuje z vybraného regiónu SR. Hodnotenie toho predmetu pozostáva zo semestrálnej práce (40%) a záverečného preskúšania látky (60%). Hodnotenie predmetu: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - based on practical methods and illustrative examples, the student can apply theoretical knowledge from Physical Geography 1, - the student knows how to work with a geological map as a basic source of information about the geological structure of the territory, - knows the principles of drawing up geological maps, distinguishes the scales of basic, overview and regional maps, the construction of geological sections, the use of legends and map marks, - the student uses electronic databases, geoinformation systems and internet map server services, - acquires knowledge about natural resources, mineral raw materials, underground water and mineral springs of Slovakia, - get familiar with the current state of environmental and anthropogenic burdens in Slovakia, - is able to process the geology of the selected region, describe its important localities and natural monuments for the teaching of geoscience subjects.	
Course contents: 1. Obtaining a regional overview of the geological structure of Slovakia according to areas and geomorphological units, defining regions for the processing of complex geological characteristics as part of students' seminar papers (outline and procedure of the geological description of the region) 2. Legislation for works in the geological environment (research, mapping work, environmental loads, etc.) 3. Geological maps, processing of geological maps, the scales of comprehensive and regional geological maps, the meaning of the legend, graphic symbols, etc.	

4. Exercises with geological maps 1:50,000, identification of rocks, relationships and interfaces of geological bodies, belonging to geological units, etc.
5. Explanations to the geological maps of Slovakia on a scale of 1:50,000 – an overview of the geological structure of the regions
6. Construction of geological sections from maps and altimetry profiles.
7. Use of thematic maps, e.g. Quaternary maps, slope deformations, mineral resources, neotectonic movements, hydrogeological conditions, and especially geological-scientific maps
8. Methodology of description and documentation of geological sites, and protection of natural monuments of scientific or landscape importance in the territory of Slovakia
9. Geoinformation sources, electronic databases, digital archives of geological reports, use of map servers, etc.
10. Mineral resources of Slovakia - regional overview of deposits, energy raw materials and construction materials
11. Regional hydrogeology of Slovakia, hydrogeological structures, geothermal and water resources in Slovakia
12. Engineering geology, load and bearing capacity of the landscape due to geotechnical works, current landscape changes during the construction of the transport infrastructure of the Slovak Republic
13. Practical outputs of geology for the landscape sphere and integrated landscape management

Recommended or required literature:

MARKO, F., REICHWALDER, P., JABLONSKÝ, J., VOJTKO, R., 2007: Methods of field geological research - Geological mapping. PRIF UK Bratislava, 47-117. Available online: https://www.researchgate.net/publication/265736549_Geologicke_mapovanie

CIMRA, J., HASPROVÁ, M., KRAMÁREKOVÁ, H., OREMUSOVÁ, D., RAMPAŠEKOVÁ, Z., VESELOVSKÝ J., 2004: Practical work in physical geography. UKF Nitra, 4-159. Available on the Internet.

JELEŇ, S., GALVÁNEK, J., ANDRÁŠ, P., BENDÍK, A., BELÁČEK, B., BOZALKOVA, I., GAÁL, Ľ., GAJDOŠ, A., HÁBER, M., KONEČNÝ, V., KRIŽÁNI, I., LUPTÁKOVÁ, J., MAZÚREK, J., MICHAL, P., SOTÁK, J., STAŇOVÁ, S., ŠIMO, V., ŠURKA, J., WETTER, R., 2009: Educational learning guide to the geological and geographical sites of central Slovakia. Quick print Martin, 309 pp., ISBN 978-80-970413-4-2.

MIŠÍK, M., 1974: Geological excursions in Slovakia. SPN Bratislava, 359 p. Available on the Internet: www.geologickaspolocnost.sk/files/Misik-mono04.pdf

RUDOLF ONDRÁŠIK, R., WAGNER, P., DURMEKOVÁ, T., BEDNARIK, M., VLČKO, J., ADAMCOVÁ, R., GREIF, V., 2019: Engineering geology - geological environment and its assessment. UK Publishing House Bratislava, 266 p.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 33

A	B	C	D	E	FX
18.18	30.3	24.24	9.09	0.0	18.18

Name of lecturer(s): doc. RNDr. Ján Soták, DrSc.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD111A/22	Course title: Quantitative Methods in Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 2 hours per semester: 26 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, homework will be assigned and students will complete two partial written examinations. The final exam on the subject covered will consist of a written examination and an oral exam. The overall assessment will include the assessment of homework, midterms, a final written examination and an oral exam. Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - knows and understands the role of quantitative methods in acquiring and applying knowledge in geography, learning and personal development, - can apply his logical and analytical thinking and will increase his functional analytical and quantitative literacy for the study and teaching of geography, - controls the methods of obtaining (for a predefined purpose) useful information (in terms of a predefined goal) from a large amount of geographic data/data, - can identify suitable sources of spatial data, correctly define the goal of quantitative (and qualitative) analysis and answer questions about what input data should be used and how it should be processed in order to achieve the set goal, - knows and understands the use of statistical and other quantitative data and methods in the system of geographical sciences and the possibilities of their processing and application in the analysis and synthesis of spatial phenomena and processes, - acquires practical skills for working with geographic data, - master the basic mathematical and statistical procedures for processing geographic data, their visualization in text, tabular, graphic and cartographic form, and finally their correct interpretation. 	
Course contents: <ol style="list-style-type: none"> 1. The structure of the geographical sphere, the system of geographical sciences, the position of physical-geographical and human-geographical disciplines in this system, the aspect of spatiality and syntheticity in geography from the point of view of the application of quantitative methods. 2. Qualitative versus quantitative methods (not only) in geography. 	

3. Basics of working with geographic data for the needs of creation, analysis and interpretation of thematic maps in geography. Atlases of Slovakia from the point of view of applying quantitative methods.
4. Data, or statistical data. statistical file: basic (population) and selection (sample), statistical unit, statistical attributes and their division.
5. Statistical investigation and its individual stages.
6. Types of variables, or data according to the measurement scale: qualitative (dichotomous; polytomous) and quantitative (ordinal; metric, i.e. interval and ratio).
7. Means of expression - tables, graphs, their classification, content.
8. The most frequently used graphs in geography, thematic maps, cartogram, cartogram.
9. Descriptive statistics - mean position values, averages.
10. Quantiles – quartiles, deciles, percentiles, their calculation from an interval-sorted file.
11. Measures of variability, distributions, sorting, intervals.
12. Statistical investigation of dependence - correlation and association.
13. Researching relationships between geographic variables.

Recommended or required literature:

- BAČÍK, M. (2007). Basics of statistics for geographers. Matej Bel University, Banská Bystrica, 122 p. [ISBN 978-80-8083-502-6]
- HENDL, J. (2016). Qualitative research: Basic theory, methods and applications. (4th revised and expanded edition) Prague, Portal 437 p. [ISBN 978-80-262-0982-9]
- IVANOVA, M. - HOFIERKA, J. (2009). Basics of statistical methods in geography. Faculty of Humanities and Natural Sciences of the University of Prešov, Prešov, 144 p. [ISBN 978-80-555-0091-1], http://web.science.upjs.sk/hofierka/Ivanova_Hofierka_skripta_2009.pdf
- NOVÁKOVÁ, G. (2009). Mathematical minimum: Precourse to Statistical methods in geography. Geo-grafika, Bratislava, 60 p. [ISBN 978-80-89317-10-3]
- NOVÁKOVÁ, G. (2008). Basics of statistics for geographers. Geo-grafika, Bratislava, 218 p. [ISBN 978-80-89317-02-8]
- NOVÁKOVÁ, G. (2011). Statistics for geographers 1. Geo-grafika, Bratislava, 214 p. [ISBN 978-80-89317-18-9]
- NOVÁKOVÁ, G. (2012). Statistics for geographers 2, Geo-grafika, Bratislava, 147 p. [ISBN 978-80-89317-19-6]
- ŠOLTES, E. (2008). Regression and correlation analysis with applications. Iura edition, Bratislava, 287 p. [ISBN 9788080781637]
- ŠUPŠÁKOVÁ, B. (2015). Visual literacy. EU Tribune, Brno 138 p. [ISBN 978-80-263-0934-5]
- TOMČÍKOVÁ, I. (2010). Basics of geography 1, PF KU Ružomberok, Verbum, 2010, 150 p.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 18

A	B	C	D	E	FX
61.11	0.0	0.0	0.0	11.11	27.78

Name of lecturer(s): RNDr. Ivana Tomčíková, PhD.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD107B/22	Course title: Rural Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 3.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: During the semester, students will prepare and present a term paper where they will prepare the geographical characteristics of the selected rural village, for which a maximum of 30 points can be obtained. To participate in the exam, it is necessary to obtain at least 20 points from the work. At the final exam, the student can get max. 70 points. Subject evaluation: A – 100%-93% B – 92%-85% C – 84%-77% D – 76%-69% E – 68%-60% Fx – 59%- 0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: <ul style="list-style-type: none"> - the student knows the difference between urban and rural landscapes, - characterizes rural life as an alternative to urban life, - can describe the development and current state of rural culture in the world and in Slovakia, - defines the basic terms of rural geography, - understands the perception of the countryside in the past and today, knows different types of rural settlements in the world and in Slovakia, - is able to process a SWOT analysis of a selected rural municipality. 	
Course contents: <ol style="list-style-type: none"> 1. Rural geography - theory, methodology, development 2. position of RuG within geography, related scientific disciplines. 3. Rural residence. 4. The countryside as an object of research 5. Rural settlement. 6. Countryside and city (suburbanization, second homes). 7. Quality of life in the countryside. 	

8. The countryside as an alternative.
9. Rural settlements in the world.
10. Rural settlements in the regional structure of Slovakia.
11. – 13. Presentation of semester papers

Recommended or required literature:

RAKYTOVÁ, I. (2008): Rural municipalities of the Banská Bystrica district (their demographic and settlement-geographic characteristics until 2001). PF KU, Ružomberok

ZUBRICZKÝ, G. (2005): Rural Geography 1. Faculty of Education, UK, Bratislava, ISBN 80-969338-3-3.

TOUSEK, KUNC, VSTUPIL AND OTHERS. (2008):: Economic and social geography.

Publishing house Aleš Čeněk, s. r. o., Pilsen, 416 p. ISBN 978-80-88870-80-7. RAKYTOVÁ, I. (2010): The degree of urbanization of rural municipalities in the Liptovský Mikuláš district. Acta geographica Universitatis Comenianae, Vol. 54, No. 2/2010, Bratislava: Comenius University in Bratislava, 2010 ISBN 80-223-2941-5; ISSN 0231-715X

RAKYTOVÁ, I. (2010): Changes in the degree of urbanization of rural municipalities in the Banská Bystrica district in the period 1991 – 2001. GEOGRAPHIA CASSOVIENSIS IV. 2 / 2010, year IV. Košice, p.181-186, ISSN 1337-6748

RAKYTOVÁ, I. (2013): THE INFLUENCE OF SELECTED GEOGRAPHICAL FACTORS ON THE DEVELOPMENT OF THE RURAL SETTLEMENT OF THE BANSKÁ Bystrica DISTRICT. Acta geographica Universitatis Comenianae, Vol. 57, No. 1/2013, Bratislava : Comenius University in Bratislava, 2013 ISBN 80-223-2941-5; ISSN 0231-715Xs, 95-114

ATLAS OF THE LANDSCAPE OF THE SLOVAK REPUBLIC (2002). Bratislava: MŽP SR, Banská Bystrica: SAŽP, 343 p.

Language of instruction:

Slovak

Notes:

Course evaluation:

Assessed students in total: 2

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

Name of lecturer(s): doc. RNDr. Branislav Nižnanský, CSc.

Last modification: 31.08.2022

Supervisor(s):

Person responsible for the delivery, development and quality of the study programme:

doc. RNDr. Pavel Bella, PhD.

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KGE/Ge-BD112B/22	Course title: Selected Methods and Exercises in Physical Geography
Type and range of planned learning activities and teaching methods: Form of instruction: Seminar Recommended study range: hours weekly: 1 hours per semester: 13 Teaching method: on-site	
Credits: 2	Working load: 50 hours
Recommended semester/trimester: 5.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: Elaboration of a semester paper in the range of 5-10 pages, thematically focused on processing selected physical-geographic features of the chosen area. Final assessment: total percentage gain from the evaluation of the content and level of the semester work (80%) and the presentation of the semester work (20%). Subject evaluation: A – 100%-93%, B – 92%-85%, C – 84%-77%, D – 76%-69%, E – 68%-60%, Fx – 59%-0%	
Learning outcomes of the course: After completing the subject, the student will acquire the following knowledge, skills and competences: - knows the basic cabinet and field methods of research and study in physical geography, - is able to choose and use a specific method for the chosen task, - can process the obtained results and evaluate them into a comprehensive output document.	
Course contents: 1. Physical geographic research: introduction, past and present 2. Exercises in lithogeography: geological maps 3. Exercises in lithogeography: identifying rocks and their properties in the field 4. Morphogeography exercises: topographic maps 5. Morphogeography exercises: identifying georelief forms in the terrain 6. Morphogeography exercises: use of the remote sensing methods 7. Exercises in climate geography: meteorological data 8. Exercises in hydrogeography: hydrological data 9. Exercises in pedogeography: soil probe 10. Exercises in pedogeography: identifying soil textures and types in the field 11. Exercises in biogeography: identifying plant species in the field 12. Data processing in the GIS environment 13. Presentations of semester works	

Recommended or required literature:

LUKNIŠ, M. ED. (1972). Slovakia 2, Nature. Bratislava: Obzor, 917 p. In Slovak

LAUKO, V. (2003). Physical geography of the Slovak Republic. Bratislava: Mapa Slovakia School, 106 p. In Slovak

LAUKO, V., TOLMÁČI, L., GURŇÁK, D. (2003). Physical geography of the Slovak Republic. Practicum. Bratislava: Mapa Slovakia School, 56 p. In Slovak

BELLA, P. (2008). Caves as natural geosystems – geoecological research and environmental protection. Liptovský Mikuláš: ŠOP SR, SSJ, 167 p. In Slovak

BELLA P. (2016). Caves in Slovakia – genetic types and morphology. Ružomberok: Verbum, 124 p. In Slovak

ČURLÍK, J., ŠURINA, B. (1998). Handbook of field survey and soil mapping. Bratislava: Soil Fertility Research Institute, 134 p. In Slovak

LOŽEK, V. (2007). Mirror of the past: the Czech and Slovak landscape in the Quarter. Prague, Dokořán, 198 p. In Czech

ŠABO, M. (2010). Introduction to the issue of assessing natural threats. Acta Geographica Universitatis Comenianae, 54, 2, p. 193-205. In Slovak, available on the Internet: http://www.actageographica.sk/stiahnutie/54_2_03_Sabo.pdf

PAPČO, P. (2011). Gully erosion in time – maps versus correlated sediments (case study). Geographical journal, 63, 3, p. 287-298. In Slovak, available on the Internet: <https://www.sav.sk/journals/uploads/03101341GC-11-3-Papco.pdf>

GEOLOGICAL MAP OF SR M 1 : 50,000. Bratislava: Dionýz Štúr State Geological Institute. Available on the Internet: <https://apl.geology.sk/gm50js>

ATLAS MAPS OF THE STABILITY OF SLOPES SR. Bratislava: Dionýz Štúr State Geological Institute. Available on the Internet: <http://apl.geology.sk/atlassd>

STATE LIST OF SPECIALLY PROTECTED PARTS OF NATURE OF THE SR. Available on the Internet: <https://data.sopsr.sk/chranene-objekty/>

ATLAS OF THE LANDSCAPE OF THE SLOVAK REPUBLIC (2002). Bratislava: MŽP SR, Banská Bystrica: SAŽP, 343 p.

Language of instruction:

Slovak

Notes:**Course evaluation:**

Assessed students in total: 22

A	B	C	D	E	FX
95.45	4.55	0.0	0.0	0.0	0.0

Name of lecturer(s): RNDr. Pavol Papčo, PhD.**Last modification:** 27.08.2022**Supervisor(s):**

Person responsible for the delivery, development and quality of the study programme:
doc. RNDr. Pavel Bella, PhD.