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.	
Prerequisities:	
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: - 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: 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. - KUSENDOVÁ, D. (2004): Computer creation of thematic maps. Comenius University in Bratislava, Bratislava, 264 p. [ISBN 8022320110], In Slovak

KUSENDOVÁ, 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. - KUSENDOVÁ, 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 Pavel 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, Pavel 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=0mAqoW4IOLpwUrEk3i0QmfbsxXy1YGQDzE52rKYlnf2Pyz1NCL8tG6EhOfv3CnyR3fusn9E4UBHHVxnbndRRqg

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-_6BHa4hDaFv8HaWi08DqW0bHnhSfcwKKm8tgiMgfbrdhy24Ekl4ZOiyb0j8bcfbJlTcxs6zgdLWWjQ

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=8l5ZKzY8b64ehkxZKJV9QADPaffpwQ0apCY7dAPH6OGF_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://geomin.sazp.sk/geomiminum/

ORŠULÁK, T. - PACINA, J. (2012): Geoinformatics. 1st ed. Digital Services Center MINO,

Language of instruction:
Slovak

Notes:

Course evaluation:
Assessed students in total: 42

A	B	C	D	E	FX
85.71	2.38	0.0	7.14	0.0	4.76

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

Last modification: 27.08.2022

Supervisor(s):

Guarantor:
Administrátor Systému

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