COURSE INFORMATION LETTER

University: P. J. Šaf	ărik University in Košice
Faculty: Faculty of	Science
Course ID: ÚGE/ LOS/18	Course name: Linux and open source GIS
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method:	and the method: ice irse-load (hours): udy period: 28
Number of ECTS c	redits: 3
Recommended sem	ester/trimester of the course: I., II. (Bachelor, Master)
Course level:	
Prerequisities:	
The evaluation of the mid-term and final carried out during the The resulting assess inspection. Credits v of the assessment. F points), B (80-89 po	ne subject is based on active participation in exercises and a combination of control consisting of theoretical and practical tasks. The interim control is ne teaching part of the exercises with a share of 50% in the final assessment. sment is the arithmetic average of the assessment from the interim and final will be awarded to a student who achieves a grade of at least an E in each part or the final evaluation of the subject, the evaluation scheme applies: A (100-90 ints), C (70-79 points), D (60-69 points), E (50-59 points), FX (0-49 points)
Learning outcomes	
The student will gain of its use and installa the Linux operating QGIS. The student v and create map outp	n knowledge about open source software, its history, availability, license terms ation. At the same time, he will acquire practical skills in the basic control of system and selected open-source GIS software, especially GRASS GIS and vill be competent to work with geospatial data, perform basic spatial analysis uts in individual open-source GIS software.
Brief outline of the	course:
History of open s installation options. distributions. OSGe overview of basic co GRASS GIS. Modu data visualization, creation of outputs. model conversion, § Getting to know the gvSIG Desktop, Ope	ource software. Licensing policy and its practical consequences. Linux Linux file system. KDE and GNOME graphical user interfaces. Linux oLive installation, system structure. Basic control of Linux in line mode ommands. History of GRASS GIS. User and developer community. Control of le system, import/export of data, basic operations with vector and raster data map algebra, interpolations, derivation of basic morphometric parameters Working with QGIS, plugins. Advanced raster and vector data operations, data geoprocessing tools, map algebra, interpolations, spatial and attribute queries e GIS software included in the OSGeoLive Desktop GIS package – SAGA, enJUMP GIS, uDig.
Comme lan and and	
Course language:	
Notes:	
Course assessment Total number of ass	essed students: 64

Course assessment is visible only in case of include the course to some study plan.

Provides: Mgr. Michaela Nováková, prof. Mgr. Jaroslav Hofierka, PhD.

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Approved:

Page: 1