BACHELOR 'S PROGRAMME 1st YEAR OF STUDY, 2nd SEMESTER

Course title		APPLIED INFORMATICS IN GEOSCIENCES	
COURSE CODE		JT2411	
COURSE TYPE		full attendance/ tutorial	
COURSE LEVEL		1 st cycle (bachelor's degree)	
YEAR OF STUDY, SEMESTER		1st year of study, 2nd semester	
NUMBER OF ECTS CREDITS		5	
NUMBER OF HOURS PER WEEK		4 (2 lecture hours + 2 seminar hours)	
NAME OF LECTURE HOLDER		Associate Professor Daniel CONDORACHI	
NAME OF SEMINAR HOLDER		Assistant Professor Lucian Ionut ROSU	
Prer	EOUISITES	Advanced level of English	
A	GENERAL AND COURSE-SPECI	FIC COMPETENCES	
General competences:			
→ Acquiring the adeq requirements of the Qualifications (RNC Course-specific competen		uate professional and transversal competencies, according to the specific subject and the qualifications listed in the National Index of Higher Education IS) for Geography of Tourism ICes:	
	 → Describes the basic hardware and software packages in the study of Geography of Tourism → Use hardware and software equipments specialized for Geography of Tourism → Calculate different indexes which are often used for evaluating the tourism system 		
В	LEARNING OUTCOMES		
	 → Analyze graphs, ma → Explain how the pro → Design Graphical, n → Lay out the results of ".odt", ".ods", ".odp" → Apply the information specified in the curr 	aps obtained by computer computing methods agrams used the numerical analysis work numerical and textual informations to the field of Geography of Tourism of the study in portofolios which will contain files such as ".ppt", ".doc", ".xls", ', ".svg", ".ai", ".Cdr", ".psd", ".pdf", ".jpg", ".tif", etc on gathered in the elaboration of the thematic papers for the study diagrams iculum and for the elaboration of the bachelor thesis	
С	LECTURE CONTENT		
	Computing systems architecture Basic hardware systems management Digital geographic information: raster system Digital geographic information: vector system Operating systems. Using Windows operating system. Software products Understanding software systems and their management Using word processor softwares Using statistical softwares Using aided design softwares for presentations Using raster based software for geographical data processing Using vector based software for geographical data processing Network, internet and ethics for software and data use for teaching and research		
D	RECOMMENDED READING FOR	LECTURES	
	 Computer Fundamentals <u>https://www.cs.utah.edu/~sw</u> Advanced geoinformation Group, LLC CRC Press Basics of Geomatics , Ma Handbook on geographic Social Affairs Statistics Divisi https://unstats.un.org/unsd/p Encyclopedia of GIS - Sha 	valton/Documents/Computer-Fundamentals.pdf accessed december 2018. science / editors, Chaowei Yang [et al.]. 2011 by Taylor and Francis ario A. Gomarasca, 2009, Springer science. information systems and digital mapping, Department of Economic and ion , United Nations, NY, 2000, pdf. ublication/SeriesF/SeriesF_79E.pdf ashi Shekar • Hui Xiong (Eds.) Springer Science, 2008	
E	SEMINAR CONTENT		
	Components of computing	systems. Lodging quick access to Microsoft Windows operating system	
	tunctions. The main services offered by	the Internet and how to use them respecting ethical standards	

	Use of software for text editin	g (creation and use of master documents and layout documents)	
	Using text editing software (c	reating and using text styles, paragraph, list and page)	
	Use of software for text editing	ng (inserting images, tables, sketches and automatic creation of content and	
	lists)		
	Use of software for tabula	r computing. Table structure of geographic information, basic statistical	
	calculations (sum, arithmet	ic average, weighted average, geometric mean, relative frequencies),	
	representation of geographic	al information in the form of graphs	
	Using software designed to a	chieve assisted presentations	
	Use of software products for	editing graphic information in a vectorial system	
	Use of software for editing gr	aphic information in a raster system	
	The use of software products	for the processing and design of graphic design	
	Digital representation of geog	praphical (spatial) information	
F RECOMMENDED READING FOR SEMINARS			
	1. Competente digitale - http://www.competentedigitale.ro/		
	2. Wang W, Microsoft Office 2016 for Dummies, 2016, Wiley Indicia PvtLtd,		
	3.What	is raster data	
	http://webhelp.esri.com/arcgi	sdesktop/9.2/index.cfm?TopicName=What_is_raster_data%3F	
	4. Introduc	ction to Vector Data	
	http://www.indiana.edu/~gisc	i/courses/g338/lectures/introduction_vector.html	
	www.microsoft.com/windows		
5. Longley P.A., Goodchild M.F., Maguire D.J., and Rhinnd D.W., 1991 - Geographic Information			
	Systems, Wiley - http://www.	wiley.com/legacy/wileychi/gis/volumes.html	
6. Burrough P., McDonnell Rachael (1998) - Principles of Geographical Information Systems, Oxford			
University Press, Oxford.			
	7. Introduc	ction to Vector Data	
http://www.indiana.edu/~gisci/courses/g338/lectures/introduction_vector.html		i/courses/g338/lectures/introduction_vector.html	
	www.microsoft.com/windows		
8.***www.canva.com 9. ***Wordpress documentation <u>http://learn.wordpress.com/</u>			
book-microsoft-edge-quick-start-guides			
	G EDUCATION STYLE		
	LEARNING AND TEACHING METHODS	Lecture, didactic explanation, heuristic coversation, video projection,	
		problem solving method, computer modeling and representation, exercise,	
		applicative activities in the laboratory	
ASSESSMENT METHODS		Performance Evaluation + Seminar Grades	
LANGUAGE OF INSTRUCTION		English	