## Course title: Geovisualization

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	Geovisualization
Level:	Master in Geodesy
Course Status:	Mandatory
Year of Study:	Year 1; Semester 1
Number of Classes per Week:	2+2
ECTS Credits:	6 ECTS
Time /Location:	According to the timetable
Teacher:	Assoc.Prof.Dr. Bashkim Idrizi
Contact Details:	bashkim.idrizi@uni-pr.edu bashkim.idrizi@yahoo.com +383 45 341098 +389 75 712998 (viber)
Course Description: Course Goals:	Geovisualization is oriented mainly in topographic symbols and graphic variables: size, colors, Toponyms, orientation, models; Topographic and thematic map design and symbolisation; Map design for presentation, synthesis, analysis and exploration of spatial data; Exploratory data analysis, graphical data analysis techniques 2D, 2.5D, 3D and 4D graphics and its representation; Virtual models; Cartography on internet, publication alternatives for distribution of electronic atlases; Programming, scripting and automation for visualization and publishing electronic atlases. The basic objective of this course are teaching cartographic principles and techniques Effective visualization of spatial data. Upon completion of this course students will be able to design cartographic products analog and digital using existing GIS tools, will also catch the level of development in critical thinking that is essential in creating cartographic
Expected Learning Outcomes:	<ul> <li>and the second of the</li></ul>

	exploration of spatial data.				
	- Exploratory data analysis, and graphical data				
	analysis teo	chniques.			
Student Workload (should be ir	n compliance w	vith student's Lea	rning Outcomes)		
Activity	Hours	Day/ Week	Total		
Lectures	2	15	30		
Theory/ Lab Work/Exercises	2	15	30		
Practical Work	4	4	16		
Consultations with the teacher					
Field Work					
Test, seminar paper					
Homework	4	4	16		
Self-study (library or home)	1	10	10		
Preparation for final exam	2	10	20		
Assessment time (test, quiz, final	6	4	24		
Projects presentations atc	2	2	Δ		
Total	Ζ	2	150		
Toaching Mothods:	Locturo				
reaching Methous.	- Lecture				
	- Discussion at	uring lectures			
	- Exercises				
	- Work in grou	р			
Assessment Methods:	Prerequisite for assessment: more than 50%				
	attendance in lectures and positive evaluation of				
	seminar paper by the lecturer.				
	First valuation: 15%				
	Second Valuation: 15%				
	Homework: 30%				
	Attendance: 10%				
	Final Exam: 30%				
	Total: 100%				
Primary Literature:	1. Terry, B. Rob	pert, Thematic Carte	ography and		
	Geovisualization, 3rd edition, 2009				
	2. MJ. Kraak & F. Ormeling, Cartography –				
	Visualization of Geospatial Data. Prentice Hall. 2nd				
	edition, 2003	•			
	3. Nollenburg I	M. Geographic geov	vizualization,		
Additional Literature:	1. D. Jason, A.	Maceachren, M. Jai	n Krak: Exploring		
	Geovisualizatio	on, 2005			
	2. Idrizi B.: Hai	rtografia e përgjiths	shme dhe		
	përgjithësimi h	artografik. 2006.			
	3. Terry A. Sloc	um, Connie Blok, B	in Jiang, Alexandra		
	Koussoulakou,	Daniel R. Montello	, Sven Fuhrmann, and		
	Nicholas R. Hee	dley. Cognitive and	Usability issues in		
	Geovisualizatio	on. 2001.			
	4. Idrizi B., Har	tografia Topografik	e. 2021.		

	5. AKK. Nomenklatura, simbolet, shenjat dhe pozicionimi i hartës topografike 1:25000. 2016.		
Designed teaching plan			
Week	Title of the Lecture		
Week 1:	Introduction to cartography and geovisualization		
Week 2:	Basic concepts of geovisualization		
Week 3:	Graphic variables		
Week 4:	Topographic symbols		
Week 5:	Classification of data		
Week 6:	Multipurpose maps		
Week 7:	Topographic and thematic maps		
Week 8:	First evaluation: The qualifying first colloquium		
Week 9:	Design of topographic and thematic maps		
Week 10:	Design of manual and digital cartographic products.		
Week 11:	Analysis and exploration of spatial data		
Week 12:	Technical Analysis of graphic data		
Week 13:	Publish online		
Week 14:	Presentation of the project.		
Week 15:	Second evaluation: The qualifying second colloquium		

## Note | If a student has more than 3 class assignments evaluated below 50%, he/she loses the right on

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Academic Policies and Code of Conduct	ng
We start and finish class on time. Tools used during class must be cleaned and stored away at the end of class. Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time. Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.	the final exa m. Eval uati
	on

is done from 0-100 %.