Course title :

Course Basic Information					
Academic Unit:	Faculty of Civil Engineering				
Course title:	Mathematical cartography				
Level:	Bachelor				
Course Status:	Mandatory				
Year of Study:	Year 3. Semester 6				
Number of Classes per Week:	2+2				
FCTS Credits:	6				
Time /Location:	According to the Timetable				
Toosbor:	Prof Asoc Dr. Bashkim Idrizi				
Contact Dataila:	hashkim idrizi@uni nr odu				
Contact Details:					
	+ 383 45 341098				
Course Description:	The course starts with the Earth's geometric elements approximated to the ellipsoid, sphere and plain. After it continues with cartographic projections, respectively				
	scale and shapes, classification of cartographic projections. The course ends with automatic build of cartographic projections with software as well as automatic data transformation between different coordinate systems with the use of computer software.				
Course Goals:	Within this course students have the opportunity to gain basic theoretical and practical knowledge about shape and size of the Earth the ways of approximating the physical surface of the Earth to the ellipsoid, sphere and plain, types of cartographic projections and the importance of their use.				
Expected Learning Outcomes:	 The stude cartography as of the Earth, as The student and geometric The stud projections The student for creating car The student mathematical 	ent is presented a subdiscipline, he swell as cartographic is presented with elements in ellipsoi ent is presented is presented with m rtographic projectio is presented with co mapping.	with mathematical shape and dimensions ic projections mathematical models d and sphere with cartographic ethodology-standards ns ontemporary trends in		
Expected Learning Outcomes:	 The stude cartography as of the Earth, as The student and geometric The stud projections The student for creating car The student mathematical 	ent is presented a subdiscipline, he s s well as cartographi : is presented with elements in ellipsoi ent is presented is presented with m rtographic projectio is presented with co mapping.	with mathematical shape and dimensions ic projections mathematical models d and sphere with cartographic ethodology-standards ns ontemporary trends in		
Expected Learning Outcomes: Student Workload (should be in	 The stude cartography as of the Earth, as The student and geometric The stud projections The student for creating cai The student mathematical 	ent is presented a subdiscipline, he s s well as cartographi is presented with elements in ellipsoi ent is presented is presented with m rtographic projectio is presented with co mapping.	with mathematical shape and dimensions ic projections mathematical models d and sphere with cartographic ethodology-standards ns ontemporary trends in ning Outcomes)		
Expected Learning Outcomes: Student Workload (should be in Activity	 The stude cartography as of the Earth, as The student and geometric The stud projections The student for creating cars The student mathematical Compliance we Hours 	ent is presented a subdiscipline, he s s well as cartographi : is presented with elements in ellipsoi ent is presented is presented with m rtographic projectio is presented with co mapping. 'ith student's Lear Day/ Week	with mathematical shape and dimensions ic projections mathematical models d and sphere with cartographic ethodology-standards ns ontemporary trends in ning Outcomes) Total		
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Expected Learning Outcomes: Student Workload (should be in Activity Lectures Theory/ Lab Work/Exercises	 The stude cartography as of the Earth, as The student and geometric The stud projections The student for creating car The student mathematical mathematical compliance we Hours 2 2 	ent is presented a subdiscipline, he s s well as cartographi : is presented with elements in ellipsoi ent is presented is presented with m rtographic projectio is presented with co mapping. /ith student's Lear Day/ Week 15 15	with mathematical shape and dimensions ic projections mathematical models d and sphere with cartographic ethodology-standards ns ontemporary trends in ning Outcomes) Total 30 30		
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Expected Learning Outcomes: Student Workload (should be in Activity Lectures Theory/ Lab Work/Exercises Practical Work Study for intermediate test Consultations with the teacher	 The stude cartography as of the Earth, as The student and geometric The student grojections The student for creating cars The student mathematical 	ent is presented a subdiscipline, he s s well as cartographic is presented with elements in ellipsoi ent is presented is presented with m rtographic projectio is presented with co mapping. rith student's Lear Day/ Week 15 15	with mathematical shape and dimensions ic projections mathematical models d and sphere with cartographic ethodology-standards ns ontemporary trends in ning Outcomes) Total 30 30		

Test, seminar paper	2	2	4		
Homework	1	15	15		
Self-study (library or home)	2	15	30		
Preparation for final exam	1	15	15		
Assessment time (test, quiz, final					
exam)					
Projects, presentations, etc.	1	15	15		
Total			152		
Teaching Methods:	Lectures, exe	Lectures, exercises during class using different			
	materials, one	materials, one project work in group of 2-3 student			
	(independent v	(independent work), individual homework			
Assessment Methods:	Attendance: 59	Attendance: 5%			
	Working semir	Working seminar: 5%			
	Individual wor	Individual work: 5%			
	Essav: 5%	Essav: 5%			
	First valuation	First valuation: 10%			
	Second Valuati	Second Valuation: 10%			
	Final Exam: 60	Final Evam: 60%			
	Total: 100%	70			
	10141. 10076				
Primary Literature:	Idrizi B · Har	tografia matematik	e – disnensë FNA		
	Prishtinë, 2010	Prishtinë 2010			
Additional Literature:	Shehu A., Sa	Shehu A., Samimi E.: Hartografia 1 – hartografia			
	matematike, T	matematike. Tiranë. 1985.			
	Çene S., Skuka	Çene S., Skuka Q.: Gjeodezia e lartë 1, Tiranë, 1995.			
	INSPIRE: Map	INSPIRE: Map projections for Europe, European			
	Commision, 20	Commision, 2001.			
Designed teaching plan					
Week Title o	of the Lecture				
Week 1: Earth	s ellipsoid and its e	ellipsoid and its elements			
Week 2: Earth'	ellipsoid and its elements				
Week 3: Earth	arth sphere and its elements				
Week 4: Earth	sphere and its elements				
Week 5: Plane	lane cartographic and approximations projection				
Week 6: The tr	the and perspective projections				
Week 7: Azilit	Sinct valuation				
Week 9:	al projections				
Week 10: Cyling	Irical projections	i projections			
Week 11: Cylind	Irical projections	al projections			
Week 12: Differ	ent projections	an projections			
Week 13: Autor	nation of cartograp	ion of cartographic projections			
Week 14: Autor	nation of cartograp	tion of cartographic projections			
Week 15: Secon	d Valuation	/aluation			

Academic Policies and Code of Conduct

- Regular attendance of lectures and exercises
- Being quiet during the sessions
- Shutting down mobile phones
- Being on time

Note | If a student has more than 3 class assignements evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.