Course Basic Information						
Academic Unit:	Faculty of Civil Engineering					
Course title:	Geodetic Reference Systems					
Level:	MA					
Course Status:	Mandatory					
Year of Study:	Year 1. Semester 1					
Number of Classes per Week:	2+2					
FCTS Credits:	6 ECTS					
Time /location:	According to the Timetable					
Teacher:	Prof asoc Dr. Perparim Ameti					
Contact Details:	nernarim ameti@uni-nr.edu					
Course Description:	This course begins with basic knowledge on geodetic reference systems, and it continues with determination and establishment of International Terrestrial Reference Systems and Frames, global coordinate systems and referent ellipsoid, coordinate transformation. The course will end with reference surfaces of heights and variations and geodynamic of geodetic reference frames.					
Course Goals:	To achieve theoretical and practical knowledge in definition of ITRS and ITRS.					
Expected Learning Outcomes:	 After completing this module, a student should: understand the definition and realization of geodetic reference systems and frames, in particular global systems realized by modern space methods be familiar with existing geodetic reference frames used in Kosovo, Western Balkan and internationally be able to transform between different types of geodetic reference frames 					
Student Workload (should be in	n compliance w	vith student's Lear	nign Outcomes)			
Activity	Hours	Day/ Week	Total			
Lectures	2	15	30			
Theory/ Lab Work/Exercises	2	15	30			
Practical Work	1	10	10			
Consultations with the teacher	5	1	5			
Field Work	1	5	5			
lest, seminar paper	1	15	15			
Homework	1	15	15			
Self-study (library or home)	1	10	10			
Preparation for final exam		15	15			
Assessment time (test, quiz, final						

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exam)

Projects, presentations, etc.		1	15	15	
Total				150	
Teaching Methods:		- Lecture			
		- Discussion during lectures			
		- Exercises			
		- Work in group			
Assessment Methods:		In evaluation, the percentage of the attendance of each partial evaluation in the final evaluation must be			
		determined. One of the ways of evaluation would be:			
		, First Evaluation: 15%			
		Second Evaluation: 15%			
		Homework or other engagement: 10%		10%	
		Attendance 5%			
		Final Exam 55%			
		Total 100%			
		10101 10070			
Primary Literature:	Primary Literature: 1) Skuka O.: Gieodezia e Larte. Libër Universitar.				
-,		Tirane			
		2) Torge W : Geodesy 3rd Edition Walter de Gruvter			
		3) Seher G : Satellite Geodesy 2nd Edition Walter de			
		Sy Seber, G.: Satellite Geodesy, 2nd Edition, Waiter de			
Additional Literature:		www.wikinedia.com			
Designed teaching plan					
Week	Title of t	helecture			
Week 1:	Introduction to geodetic reference frames. Definition and types of				
	geodetic	tic datum			
Week 2:	Definition of ITRF				
Week 3:	Definition of ITRS				
Week 4:	Global and local geodetic datum				
Week 5:	Global coordinate systems and reference ellipsoid (WGS, GRS)				
Week 6:	Geodetic datum, ellipsoidal geodetic basis, basic equations,				
	reductio	ons and calculations on ellipsoid			
Week 7:	Establishment of state coordinate systems and their maintenance				
Week 8:	Transformation and conversion of coordinates				
Week 9:	Height reference surfaces: Global, regional and state				
Week 10:	Basic concepts of geophysics and gravimetry				
Week 11:	Global models of geopotential				
Week 12:	Impact o	act of topography and gravimetric reductions			
Week 13:	Geoid de	eola aetermination			
Week 14:	Geometric level: establishment, surveying and adjustment				
Week 15:	Variations and geodynamic of geodetic reference frames				

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.

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 %.