

Course title :

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	GIS Application
Level:	Bachelor
Course Status:	Mandatory
Year of Study:	Year 3, Semester 5
Number of Classes per Week:	2+2
ECTS Credits:	6
Time /Location:	According to the Timetable
Teacher:	Prof.Asoc.Dr. Bashkim Idrizi
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Course Description:	Within this subject will be developed knowledge on the use of geoinformation or GIS in different fields. Initially will be developed basic knowledge on the use of geoinformation in different formats, ways of using the geoinformation, data conversion, using different projections and ends with an analysis on how to easily make use of geoinformations.
Course Goals:	To achieve theoretical and practical knowledge in the use of geoinformation.
Expected Learning Outcomes:	After finishing this course, the student should be able: <ol style="list-style-type: none"> 1. To use geoinformations for objects with spatial data 2. To have knowledge in the application of GIS in different fields 3. To design different professional projects independently

Student Workload (should be in compliance with student's Learning Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	2	15	30
Practical Work	1	10	10
Study for intermediate test			
Consultations with the teacher	1	10	10
Field Work			
Test, seminar paper	1	15	15
Homework	1	15	15
Self-study (library or home)	1	10	10
Preparation for final exam	1	15	15
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.	1	15	15

Total		150
Teaching Methods:	-Lecture -Discussion during lectures -Exercises -Team work	
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% Attendance 5% Final Exam 55% Total 100%	
Primary Literature:	1) <i>GIS – a Computing Perspective, Worboys, M. (2003)</i>	
Additional Literature:		

Designed teaching plan	
Week	Title of the Lecture
Week 1:	Using of geoinformations in different formats
Week 2:	Users decision on how to use geoinformations
Week 3:	Examples of using geoinformations
Week 4:	Convert vector in raster
Week 5:	Line generalization
Week 6:	Join attributes
Week 7:	Projection changing
Week 8:	Data modeling
Week 9:	Identification of different forms of data
Week 10:	Proections of different spatial data
Week 11:	Summary of changing and its function in modeling and analysis
Week 12:	The possibility of moving from one to another format
Week 13:	Loss of information to be as small during the transformation.
Week 14:	Quality control during transformations
Week 15:	Analysis and the easiest way of using geoinformations

Academic Policies and Code of Conduct
<ul style="list-style-type: none"> - 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 assignments evaluated below 50% he/she loses the right on taking the final exam. Evaluation is done from 0-100 %.

