

Course title :

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Basic Geoinformatics		
Level:	Bachelor		
Course Status:	Mandatory		
Year of Study:	Year 1, Semester 1		
Number of Classes per Week:	2+2		
ECTS Credits:	6		
Time /Location:	According to the Timetable		
Teacher:	Prof.Ass.Dr. Ymer Kuka		
Contact Details:	ymer.kuka@uni-pr.edu +383 44 224 853		
Course Description:	The course starts with the face of reality, comparisons and differences between space and time, knowledge of spatial data, basic knowledge on the coordinate systems. Continues with sharing data of geo space based on the position, object and time. The course finishes with practical instruction in the use of GIS software.		
Course Goals:	To achieved theoretical and practical knowledge in the basics of Geoinformatics and informatics, as well as application in geodesy.		
Expected Learning Outcomes:	After completion of this course, will be able: <ul style="list-style-type: none"> • Develop knowledge of space and time • Develop knowledge of spatial data • Develop practical knowledge on informatics • Develop knowledge on the use of GIS software 		
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			
Study for intermediate test	1	13	13
Consultations with the teaher	1	15	15
Field Work			
Test, seminar paper	4	2	8
Homework	1	13	13
Self-study (library or home)	1	13	13
Preparation for final exam	1	15	15
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.	1	15	15
Total			152

Teaching Methods:	<ul style="list-style-type: none"> - Lecture - Discussion during lectures - Exercises - Work in group
Assessment Methods:	<p>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:</p> <p>First Evaluation: 15% Second Evaluation: 15% Homework or other engagement: 10% Attendance 5% Final Exam 55% Total 100%</p>

Primary Literature:	<ol style="list-style-type: none"> 1. GIS, principles and applications Maguire, D.J. et al (1991). 2. GIS – a Computing Perspective, Worboys, M. (2003)
Additional Literature:	www.ncgia.ucsb.edu

Designed teaching plan

Week	Title of the Lecture
Week 1:	The vision of reality and the separation of reality with elements
Week 2:	Comparisons of space and time
Week 3:	The difference between space and time
Week 4:	Observations different for spatial data
Week 5:	The proportion of geo space and position as the attribute
Week 6:	Coordinate Systems in GIS
Week 7:	Comparison of maps
Week 8:	Sharing geo space based on the position First valuation
Week 9:	Sharing geo space based on the object
Week 10:	Sharing geo space based on the time
Week 11:	Modeling absolute and relative
Week 12:	Geometric spaces and their separation
Week 13:	Fundamentals of the theory of graphs
Week 14:	Basics of topology
Week 15:	Using GIS software Second valuation

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 %.