Course title :

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	Basics of GIS
Level:	Bachelor
Course Status:	Elective
Year of Study:	Year 3, Semester 4
Number of Classes per Week:	2+1
ECTS Credits:	3
Time /Location:	According to the Timetable
Teacher:	Prof.Asoc.Dr. Perparim Ameti
Contact Details:	perparim.ameti@uni-pr.edu + 383 44 244 748
Course Description:	The course begins with the basic knowledge of GIS, its development history, importance, while continuing with the knowledge on the data and information, the basic concepts in spatial and non-spatial data, and concludes with the knowledge on methods of representing geographic objects and the role of maps in GIS.
Course Goals:	The main goal of the course is to develop basic knowledge on GIS, the data which is the main component and methods of representation.
Expected Learning Outcomes:	Upon completion of this course the student will be able to: - Get basic knowledge on GIS and spatial data. - Create maps using GIS software - Understand what the opportunities GIS offers.

Student Workload (should be in compliance with student's Learning Outcomes)			
Activity	**Hours**	**Day/ Week**	**Total**
Lectures	2	15	30
Theory/ Lab Work/Exercises	1	15	15
Practical Work			
Study for intermediate test			
Consultations with the teacher	1	5	5
Field Work			
Test, seminar paper	1	5	5
Homework	1	5	5
Self-study (library or home)	1	5	5
Preparation for final exam	1	5	5
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.	1	5	5
Total			**75**

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%* *Attendance 5%* *Final Exam 55%* *Total 100%*
Primary Literature:	*1. Huisman, O., A de By, R. (2001): Principles of geographc information system, an introductory textbook.* *2. Fazal, Sh. (2008): GIS Basics.*
Additional Literature:	1. Markus, B. (2011): Geoinformation management 2. 2. Markus, B. (2011): Geoinformation management 3.

Designed teaching plan

Week	**Title of the Lecture**
Week 1:	Geographic Information and GIS
Week 2:	Definition and the role of GIS. History and components of GIS.
***Week 3*:**	The GIS view of the world. Why GIS is important? Contributing disciplines in GIS development
Week 4:	Areas of applications. Potential of GIS. Advantages of GIS applications.
Week 5:	Data and geographic information. Information organization.
***Week 6*:**	Data fundamental concepts. Spatial and non spatial data.
Week 7:	Database management system.
Week 8:	The nature and source of data. First valuation
Week 9:	Data formats. Choice between formats. Data capture.
Week 10:	Data conversion
***Week 11*:**	GIS and the real world
***Week 12*:**	Entity types. Entity relations.
***Week 13*:**	Geographical representation of objects.
***Week 14*:**	Basic data models in GIS
***Week 15*:**	The role of maps in data modeling. Second valuation

Academic Policies and Code of Conduct

-The teacher sets the criteria for regular attendance at lectures and exercises and rules of etiquette as: quieting in the lesson, disconnection of mobile phone, entrance in lesson in time, mutual respect, and application of the principle one speaks everyone listens etc.

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 %.