## **Course title: Agriculture Information Systems**

Course Basic Information					
Academic Unit:	Faculty of Civil Engineering				
Course title:	Agriculture Information Systems				
Level:	Master				
Course Status:	Elective				
Year of Study:	Year 2, Semester 3				
Number of Classes per Week:	2+0				
ECTS Credits:	3 ECTS				
Time /Location:	According to the Timetable				
Teacher:	Prof.asoc.Dr. Perparim Ameti				
Contact Details:	perparim.ameti@uni-pr.edu				
Course Description:	This course includes application of GIS and GPS in agriculture. GIS is used to assist precision farming, balancing the need between the economy return from a crop with the environmental impact. An increasing number of farmers are investing in GPS receivers which can pinpoint precise locations by locking onto a network of satellites. Combining this information with digital mapping using GIS allows the farmer to store, analyze and display a wide range of data.				
Course Goals:	After the completion of this course students should be able to demonstrate that they have achieved to raise their practical and theoretical knowledge on precise agriculture. They will be informed about source of geospatial data that are more reliable and accurate.				
Expected Learning Outcomes:	After the completion of the course, students should be familiar with:  - GPS & Guidance  - Yield Monitoring & Mapping  - Remote Sensing for Agriculture  - Soil & Crop Sensing  - Electronics & Control Systems				
Student Workload (should be in compliance with student's Learnign Outcomes)					
Activity	Hours	Day/ Week	Total		
Lectures Theory/ Lab Work/Exercises	2	15	30		
Practical Work					
Consultations with the teacher	5	1	5		
Field Work					

Test, seminar paper		1	5	5
Homework				
Self-study (library or home)		1	15	15
Preparation for final exam		2	5	10
Assessment time (test, quiz,	final			
exam)				
Projects, presentations, etc.		2	5	10
Total				75
Teaching Methods:		- Lecture		
8		- Discussion du	urina lectures	
		- Exercises		
0		- Work in grou		
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 Evalua	tion: 15%	
		Homework or	other engagement:	10%
		Attendance 5%	6	
		Final Exam 55%	%	
		Total 100%		
Primary Literature:		Francis J. Piers	e, David Clay: GIS ap	pplications in
-		agriculture, 20	•	•
Additional Literature:		Internet GIS: Distributed Geographic Information		
				Wireless Networks,
				and Dr. Ming-Hsiang
		•	ed by Wiley. 2003.	0 1 0
Designed teaching plan			, , , , , , , , , , , , , , , , , , , ,	
Week	Title of t	he Lecture		
Week 1:			and GIS techniques	in remote sensing
	analysis	and geospatial d	lata management	
Week 2:	Geospatial data collection			
Week 3:	Structure of data in GIS			
Week 4:	Populating ecology considerations for monitoring and managing			
100		l invasions		
Week 5:	GPS in agriculture			
Week 6:	Data analysis through satellite images  GPS, GIS and remote sensing integration in data management for			
Week 7:			ising integration in	uata management for
Week 8:	agriculture crops  GIS application in mapping and mapagement of agriculture data			
Week 9:	GIS application in mapping and management of agriculture data GIS application in agriculture data management from state			
VICEN J.	institutio		tare data managem	chi nom state
Week 10:	Data sharing and integration			
Week 11:	Impact of GIS in decision making			
Week 12:	EU regulation and directives in agriculture data management			
Week 13:	Conceptual model in agriculture information systems			
Week 14:	Required hardware for creation and application of agriculture			
	, ricquirec		. cation and applicat	ion of aprications

	information system
Week 15:	Study visit in State Government, in order to see existing
	agriculture information systems

## **Academic Policies and Code of Conduct**

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 %.