Course title : Remote sensing

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	Remote sensing
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.Dr. Murat Meha
Contact Details:	murat.meha@uni-pr.edu 044 120 958
Course Description:	The subject, research distance, which is often called Remote Sensing, introduces the processes of obtaining satellite images until their use.
Course Goals:	The aim of the course is to provide students theoretical and practical knowledge in satellite images, to perform geodetic measurements as required and make the exact interpretation of satellite data.
Expected Learning Outcomes:	After completing this course, the student will be able to: 1. describe the process of the benefit of satellite images; 2. make the interpretation of satellite images by themes; *3.* make the connection of ground measurements with satellite

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			
Consultations with the teaher	1	13	13
Field Work			
Test, seminar paper	2	2	4
Homework	1	15	15
Self-study (library or home)	2	15	30
Preparation for final exam	1	15	15
Assessment time (test, quiz, final exam)			
Projects, presentations, etc.	1	15	15
Total			**152**

Teaching Methods:	Lectures, discussions, seminars, group work.
Assessment Methods:	Writing testing, discussion and clarification, evaluation of the seminar.
Primary Literature:	1. Gjata, G. 2007. Imazhet Satelitore (Teledeteksioni). SHBLU. Tirane 2007. 2. Meha, M. 2009. Materiali doreshkrim per lenden. Prishtine
Additional Literature:	1. Nikolli P. 2009. Perfitimi dhe perpunimi i imazheve satelitore (Disa kapituj). SHBLU, Tirane. 2. http://landsat.gsfc.nasa.gov; http://www.isprs.org

Designed teaching plan

Week	**Title of the Lecture**
Week 1:	The concept of research by distance
Week 2:	Geoinformacion necessary that can be collected through satellite images
***Week 3*:**	Building systems teledetection
Week 4:	Radiation, energy and spectrum electromagnetic
Week 5:	Electromagnetic spectrum
***Week 6*:**	Interaction of sun radiation - the land surface
Week 7:	Teledetektion platforms and sensors
Week 8:	Satellite and their characteristics
Week 9:	Sensors, resolution, scale
Week 10:	Basic mathematical model for georeference images
***Week 11*:**	Mathematical models, parameters
***Week 12*:**	Georeferencing
***Week 13*:**	Testing of knowledge from the subject
***Week 14*:**	Processing and interpretation of satellite images
***Week 15*:**	Implementation and use of satellite images

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 %.