GE 113: REMOTE SENSING

Class Orientation
for 2nd Semester, AY 2016-2017

Engr. Jojene R. Santillan
Lecturer, College of Engineering and Information Technology
Caraga State University
Your Lecturer

• Engr. JOJENE RENDON SANTILLAN

• Master of Science in Remote Sensing
  – University of the Philippines-Diliman

• Bachelor of Science in Geodetic Engineering
  – University of the Philippines-Diliman
A Review of our University and College Virtues and Core Values
VISION

A premiere University known for academic excellence in science and technology, agriculture, environment and natural resources, engineering, educational and the arts towards the sustainable development of Caraga Region.
MISSION

In pursuit of academic excellence, Caraga State University shall endeavor to deliver the highest quality of instruction, research, extension, production, and administration to produce scientifically trained, technologically skilled, and morally sound individuals contributing to the creation of an eco-friendly and healthy environment.
• As a student, how can you contribute to CSU’s mission and vision?
CSU Core Values
CSU Core Values

Competence

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CSU Core Values

Competence
Service
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CSU Core Values

Competence
Service
Uprightness
GOALS OF CEIT
Goal #1

• To provide relevant and quality undergraduate and graduate engineering and IT education to produce graduates who are **globally competent** in their field of specialization, passers of licensure or national competency examinations, and manifesting high ethical standard with concern for the society and environment;
Goal #2

• To provide post-graduate and continuing education programs to **advance** the knowledge and **enhance** the competence of engineers and information technology professionals;
Goal #3

- To provide an educational experience that will develop students’ full potential to become leaders in their field of specialization and understanding the implications of their work on both to themselves and to society as a whole;
Goal #4

• To engage in relevant research activities focused on regional and national priority areas that will cultivate creative and innovative endeavors to promote economic development;
Goal #5

• To conduct relevant extension programs, and participate in community activities that will promote awareness on socio-economic, legal and environmental issues;
Goal #6

• To establish and strengthen mutually-beneficial linkages and collaborations with industries, government institutions and other entities; and
Goal #7

• To subject academic programs and services to quality assurance mechanisms to ensure relevance, compliance to standards, and continual improvement.
COURSE DESCRIPTION AND DETAILS

GE 113: REMOTE SENSING
• Why are you required to take this course (GE 113)?
• Is it because board exams now includes questions on “Remote Sensing”? 
• Is it because “Remote Sensing” is a technology that are currently being used in the practice of your profession (e.g., in Geodetic Engineering, Agricultural Engineering, Mining Engineering, Environmental Science, etc)?
GE 113 Course Description

• Principles of remote sensing: identification of geomorphological and cultural features using airborne and satellites imageries; sensors and platforms; digital image processing; thematic mapping applications.
• Lecture: 2 hours/week
• Laboratory: 3 hours/week
Pre-requisites

• Phys 12
• Phys 12.1
• GE 103

• WHY ARE THESE COURSES NEEDED BEFORE YOU CAN TAKE GE 113?
Course Overview

• 10 Lecture Topics (refer to the syllabus)
• 5-7 Laboratory Exercises
• Quizzes
• Problem Sets
SOME INTERESTING THINGS TO LEARN FROM GE 113
Why is the sky blue and the clouds white in a sunny day?
Why are rain clouds gray or dark in a gloomy or rainy day?
Do you know that we can create a “colored” picture using these black and white pictures?
Do you know that this blurred, unrecognizable picture can be enhanced....
...to show this picture of rice fields?
Major Examination Dates

Preliminary Exam  February 27, 2017  (Monday)

Midterm Exam  April 3, 2017  (Wednesday)

Final Exam  May 15, 2017  (Monday)
## Grading System

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Teacher-Student Roles
What are my roles/responsibilities as your teacher?

• **Some expected roles/responsibilities:**
  – Teach the lessons, and to make sure you have understood it
  – Follow class schedules
  – Motivate the students
  – Provide learning materials
  – Guide you during the conduct of laboratory exercises.
  – Provide consultation hours
  – Conduct/implement various measures to test your knowledge, comprehension, application, analysis, synthesis, and evaluation of the topics that have been discussed and the exercises that have been conducted.
    • Quizzes, oral recitations, seatworks, problem sets, laboratory exercises, exams
  – Keeps accurate records of student performance.
What are your roles and responsibilities?

• Very important:
  – Attend class meetings.
  – Study hard and perform to the best of your ability
  – Submit all course requirements in a timely manner
  – To learn beyond what is required.