

Course Syllabus

STATISTICS

Printed by: lualtam

Program: Oceanographic Engineering

1. Course number and name

ESTG1034 - STATISTICS

2. Credits and contact hours

3 credits and 4 contact hours

3. Instructor's course or coordinator's name

JOFFRE ERNESTO SANCHEZ CERON

4. Text book, title, author, and year

- Gaudencio Zurita Herrera. Probabilidad y Estadística, Fundamentos y Aplicaciones (Segunda)

- a. Other supplemental materials

- Ronald E. Walpole, Raymond H. Myers, Sharon L. Meyers, Keying Ye. Probabilidad y estadística para ingeniería y ciencias (9na)

- Wackerly, Dennis D. & Mendenhall, William & Scheaffer, Richard L.. Mathematical statistics with applications (Second)

5. Specific course information

- a. Brief description of the content of the course (catalog description)

This is a training basic course training and provides the knowledge to the engineering and science student can convert data into information, associate everyday situations with statistical processes, and determine scientific conclusions through experimental observations, applying descriptive statistics, notions of probability, models of random variables and inferential analysis.

- b. Prerequisites

PROGRAMMING FUNDAMENTALS - CCPG1043

VECTOR CALCULUS - MATG1046

- c. This course is: Required

6. Specific goals for the course

- a. Specific outcomes of instruction

- 1.- To analyze statistically the data to turn it into useful information.

- 2.- To associate everyday situations using models of discrete or continuous random variables.

- 3.- To apply statistical inference that identifies and minimizes risks in decision making.

- b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course

7. Brief list of topics to be covered

Course Syllabus

STATISTICS

Printed by: lualtam

Program: Oceanographic Engineering

- 1.- Evaluation activities
- 2.- Descriptive statistics
- 3.- Probability
- 4.- Stochastic models of one and several variables
- 5.- Sampling distributions
- 6.- Confidence intervals and hypothesis testing
- 7.- Linear regression analysis