IMM3103 ENVIRONMENTAL MANAGEMENT

Credits and contact hours: 10 UC credits / 10 hours (3 h. Lectures; 1.5h. Assistantship and 5.5h. Independent learning experiences)

Instructor’s name: Gustavo Lagos

Course coordinator’s name: Gustavo Lagos


Course Catalog Description: This course aims to enable the students to understand and use the concepts and tools used in environmental management in companies and at the country

Prerequisite Courses: ICS1513 Introduction To Economics Analysis

Co-requisite Courses: None

Status in the Curriculum: Required

Course Learning Outcomes: Understand and use basic concepts and tools concerning environmental management.

Relation of Course to ABET Criteria:
a. Knowledge of mathematics, science and engineering
b. Design and conduct experiments: analyze and interpret data
c. Design a system, component, or process
j. Knowledge of contemporary issues
k. Techniques, skills, and modern tools for engineering practice.
Topics covered:  

A. Environmental risk evaluation  
1. Risk evaluation basics.  
2. Risk perception.  
3. Probabilistic risk analysis.  
5. Health risks: Regulation.  
7. Risk management.

B. Instrumentos de Gestión Ambiental  
2. Environmental and emission quality standards. Prevention and decontamination plans.  
5. Life cycle analysis, theory.  
7. Environmental risk evaluation methods.