



NATIONAL UNIVERSITY OF ENGINEERING
COLLEGE OF ENVIRONMENTAL ENGINEERING
ENVIRONMENTAL ENGINEERING PROGRAM

GA161 - STRATEGIC ENVIRONMENTAL ASSESSMENT

I. GENERAL INFORMATION

CODE	: GA161 – Strategic Environmental Assessment
SEMESTER	: 10
CREDITS	: 03
HOURS PER WEEK	: 04 (Theory – Practices)
PREREQUISITES	: Environmental Impact Assessment
CONDITION	: Mandatory

II. COURSE DESCRIPTION

World policies and trends. Concept of Strategic Environmental Assessment (SEA). Systematic evaluation of the environmental effects of the plans and programs related to the use of the territory. Application in regional and local plans, development, transport and waste. Assessment Phases. Methods for its development. National cases.

III. COURSE OUTCOMES

At the end of the course the student will:

- Develop the evaluation of cumulative and synergistic environmental impacts.
- Plan environmental management instruments for a territory.
- Determine important aspects for the Strategic Environmental Assessment of a Plan or Program.
- Participate in teams to develop assigned tasks.

IV. LEARNING UNITS

1. REVIEW OF CONCEPTS AND METHODS OF ENVIRONMENTAL ASSESSMENT

Definitions and concepts / Baseline / Environmental impacts / Environmental Management Strategy / Citizen participation.

2. ENVIRONMENTAL MANAGEMENT OF THE TERRITORY

Environmental management / Environmental management instruments / Environmental diagnosis / Environmental policy / Environmental action plan / Environmental agenda / Global and national environmental trends / Environmental sustainability.

3. STRATEGIC PLANNING

Strategic thinking / Strategic plans / Vision / Mission / Strategic objectives

4. BASIC ASPECTS OF THE STRATEGIC ENVIRONMENTAL ASSESSMENT

Policies, Plans, Programs / Concepts of strategic environmental assessment / Characteristics / Differences between SEA and EIA / Legal Framework / SEA Methodology.

5. STRATEGIC DIAGNOSIS

Relevant social and environmental aspects / Sub-themes / Attributes / Trend analysis / Citizen participation in SEA

6. CHARACTERIZATION OF POSSIBLE ENVIRONMENTAL IMPLICATIONS

Analysis of Programs and Projects / Analysis of cumulative effects / Impact indicators

7. MEASURES TO REDUCE SIGNIFICANT NEGATIVE IMPLICATIONS

Socio-Environmental Management Programs / Implementation of monitoring and evaluation

8. STRATEGIC ENVIRONMENTAL EVALUATION IN PERU: CASE - LORETO

Stages followed / Methodological process / Results.

V. LABORATORIES AND PRACTICAL EXPERIENCES

- Qualified Practice 1: Environmental assessment
- Qualified Practice 2: Environmental management of the territory
- Qualified Practice 3: Concepts about strategic environmental assessment
- Qualified Practice 4: Application of strategic environmental assessment

VI. METHODOLOGY

The course is developed in theory and practice sessions. In theory sessions, the professor presents the concepts, definitions, theories. In the practical sessions, previous experiences are reviewed, several cases are solved and their respective solution is analyzed; the students make expositions on the different topics of the course. In all the sessions, the active participation of the student is promoted.

VII. EVALUATION FORMULA

The learning will be evaluated through the "G" system.

- Partial Exam: Weight 1
- Final Exam: Weight 1
- Practices Average: Weight 1.

Calculation of the Final Average:

$$FA = \frac{PE + FE + PA}{3}$$

PE: Partial Exam; FE: Final Exam, PA: Practices Average

For the Practices Average the three practices with the highest grades:

$$PA = \frac{QP1 + QP2 + Q3}{3}$$

VIII. BIBLIOGRAPHY

- DERECHO AMBIENTE Y RECURSOS NATURALES. La Evaluación Ambiental Estratégica del Plan de Desarrollo Regional Concertado de Loreto al 2021: Su aporte metodológico y su papel en el fortalecimiento de la gobernanza ambiental. Lima-Perú. 2015.
- PARTIDARIO, María do Rosario. Guía de mejores prácticas para la evaluación ambiental estratégica, orientaciones metodológicas para un pensamiento estratégico en EAE. Agencia Portuguesa de Ambiente y Redes Energéticas Nacionales. Lisboa - Portugal. 2012.

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