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| <b>Learning Unit : Quality management and environment.</b>  | <b>Last update: July 2015</b> |
| <b>Major: Energy Management and Sustainable Development</b> | <b>Plan: 401</b>              |
| <b>Semester: 4th</b>  | <b>Credits: 3</b>             |

| Week | Topic  | Activities, homework and exams   | Bibliography   |
|------|--|--|--|
| 1    | Presentation of the program and indications about the ways to evaluate | Expositive facilitation of the teacher   | N/A  |
| 2    | 1. Stage 1: Conceptualization of environmental concepts                | Exposition of the students and Group Debate<br><br>Evidence 1: Frame summary of the main environmental concepts. | <ul style="list-style-type: none"> <li>Blanco Cordero, Marta (2004) <i>Gestión Ambiental. Camino al desarrollo sostenible</i>. España: EUNED.</li> <li>Sánchez y Gándara, Arturo (2011) <i>Conceptos Básicos de gestión ambiental y desarrollo Sustentable</i>. Instituto Nacional de Ecología, México: Semarnat.</li> </ul> |
| 3    | 1. Stage 1: Conceptualization of environmental concepts                | Exposition of the students and Group Debate  | <ul style="list-style-type: none"> <li>Blanco Cordero, Marta (2004) <i>Gestión Ambiental. Camino al desarrollo sostenible</i>. España: EUNED.</li> <li>Sánchez y Gándara, Arturo (2011) <i>Conceptos Básicos de gestión ambiental y desarrollo</i></li> </ul>  |

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|   |  |  | <i>Sustentable</i> . Instituto Nacional de Ecología, México: Semarnat.   |
| 4 | 1. Stage 1:<br>Conceptualization of environmental concepts | Exposition of the students and Group Debate  | <ul style="list-style-type: none"> <li>• Blanco Cordero, Marta (2004) <i>Gestión Ambiental. Camino al desarrollo sostenible</i>. España: EUNED.</li> <li>• Sánchez y Gándara, Arturo (2011) <i>Conceptos Básicos de gestión ambiental y desarrollo Sustentable</i>. Instituto Nacional de Ecología, México: Semarnat.</li> </ul> |
| 5 | 2. Stage 2: environmental regulatory framework of México   | Exposition of the students and Group Debate<br><br>Evidence 2. Written analysis of the main sections of the General Law of Ecological Balance and Environmental Protection (LGEEPA). | Marco normativo ambiental SEMARNAT.<br><a href="http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales">http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales</a>   |
| 6 | Stage 2: environmental regulatory framework of México      | Exposition of the students and Group Debate  | Marco normativo ambiental SEMARNAT.<br><a href="http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales">http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales</a>   |
| 7 | 2. Etapa 2: Marco normativo ambiental de México.           | Exposition of the students and Group Debate  | Marco normativo ambiental SEMARNAT.<br><a href="http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales">http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales</a>   |

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| 8  | 3. Step 3: international regulatory framework in environmental matters  | <p>Exposition of the students and Group Debate</p> <p>Evidence 3. Class presentation that includes European and American international standards.</p> <p>Gray Agenda, Green Agenda, Blue Agenda.</p> <p>Stockholm Public Policy from 1979 to Rio + 20.<br/>Revision of the Video<br/>ISO 14001 EMS certification requirements presentation<br/><a href="https://www.youtube.com/watch?v=spiwQX-acnA">https://www.youtube.com/watch?v=spiwQX-acnA</a></p> | <p>United Nations Development Program<br/><a href="http://www.undp.org/">http://www.undp.org/</a></p>                         |
| 9  | 3. Step 3: international regulatory framework in environmental matters. | <p>Exposition of the students and Group Debate</p> <p>Revision of the Video Agenda 21 in Less Than 5 Minutes<br/><a href="https://www.youtube.com/watch?v=govL-fUAwMA">https://www.youtube.com/watch?v=govL-fUAwMA</a></p>   | <p>United Nations Development Program<br/><a href="http://www.undp.org/">http://www.undp.org/</a></p>                         |
| 10 | 4. Stage 4: Protection of the environment.                              | <p>Exposition of the students and Group Debate</p>   | <p>Mora Ruiz Manuela (2007) <i>La gestión ambiental compartida: Función Pública y Mercado</i>. España: Editorial Lex Nova</p> |

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| 11 | 4. Stage 4: Protection of the environment  | Exposition of the students and Group Debate   | Mora Ruiz Manuela (2007) <i>La gestión ambiental compartida: Función Pública y Mercado</i> . España: Editorial Lex Nova |
| 12 | 4. Stage 4: Protection of the environment. | Exposition of the students and Group Debate<br><br>Evidence 4. Synoptic chart representing the principal concepts related to environmental degradation. | Mora Ruiz Manuela (2007) <i>La gestión ambiental compartida: Función Pública y Mercado</i> . España: Editorial Lex Nova |

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| 13 | 5. Stage 5: Program planning of environmental management.  | Exposition of the students and Group Debate<br><br>Evidence 5 Planning and Timeline of the proposed Environmental Management Program.  | Avellaneda Cusaría, Alfonso (2007) <i>Gestión Ambiental y planificación del desarrollo. El sujeto ambiental y los conflictos ecológicos distributivos</i> . Colombia: ECOE Ediciones |
| 14 | 5. Stage 5: Program planning of environmental management.  | Exposition of the students and Group Debate  | Avellaneda Cusaría, Alfonso (2007) <i>Gestión Ambiental y planificación del desarrollo. El sujeto ambiental y los conflictos ecológicos distributivos</i> . Colombia: ECOE Ediciones |
| 15 | Delivery of evidence and results<br><br><b>Qualifications uploaded into SIASE (1st Opportunity)</b><br><br><b>Qualifications uploaded into SIASE (1st Opportunity) As mark in the sub-direction scholar calendar</b> | N/A<br>PIA Evidence 6. 25% Managing a project of environmental improvement, allowing them to put into practice the knowledge acquired, respecting the existing legislation, the social demands with respect for diversity of culture, politics and society | Not apply  |

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| 16 | <i>Qualifications uploaded into SIASE (1st Opportunity) As mark in the calendar of tutorship sub-direction</i> | Not apply   | Not apply              |
| 17 | Counseling for second opportunity  | Exposition of class and delivery of the evidences | Bibliography suggested |
| 18 | Second opportunity   | Exposition of class and delivery of the evidences | Bibliography suggested |
| 19 | Second opportunity   | Not apply   | Not apply              |
| 20 | Grades of Second Opportunity will be in SIASE and reviews  | Not apply   |                        |

### ACTIVITIES

- Reports
- Exposition
- Tests
- Final Project

### EVALUATION

|  |            |
|--|------------|
| Evidence 1: SUMMARY CHART –  | 10%        |
| Evidence 2: Written analysis of the LGEEPA 1 -   | 10%        |
| Evidence 3: Class exposition 2 –   | 10%        |
| Evidence 4: Synoptic chart –   | 10%        |
| Evidence 5: Plan and timetable of proposed environmental management program – 10% EXAM – | 15%        |
| <b>Product Integrator of Learning: Project of environmental improvement</b>              | <b>30%</b> |
| Attendance and values 5%   |            |

**Important Notes:**

- When:
  - a) If you don't have the 70% of the course activities, you have no right of evaluation on Second Opportunity, and it will appear NC, (No cumplió) on your notes.
  - b) Ask for a copy, total or partial, in any realized activities during the course.

**BIBLIOGRAPHY**

**Basic Bibliography:**

- Avellaneda Cusaría, Alfonso (2007) Gestión Ambiental y planificación del desarrollo. El sujeto ambiental y los conflictos ecológicos distributivos. Colombia: ECOE Ediciones
  - Blanco Cordero, Marta (2004) Gestión Ambiental. Camino al desarrollo sostenible. España: EUNED.
  - Mora Ruiz Manuela (2007) La gestión ambiental compartida: Función Pública y Mercado. España: Editorial Lex Nova.
- Sánchez y Gándara, Arturo (2011) Conceptos Básicos de gestión ambiental y desarrollo Sustentable. Instituto Nacional de Ecología, México: Semarnat.

**Complementary Bibliography:**

- Fernández-Vitoria, Vicente C. (1997). Instrumento de la gestión ambiental en la empresa. España: Mundi-Prensa, S.A.
- Quadri de la Torre, G. (2006) Políticas Públicas y sustentabilidad y medio ambiente. México: Miguel Ángel Porrúa.

**Electronic Sources:**

- Gestión Ambiental SEMARNAT. <http://www.semarnat.gob.mx/temas/gestionambiental/Paginas/inicio.aspx>
- Leyes Federales de México Vigentes. <http://www.diputados.gob.mx/LeyesBiblio/>
- Leyes Federales de México en materia ambiental. <http://www.diputados.gob.mx/LeyesBiblio/regley.htm>
- Marco normativo ambiental SEMARNAT. <http://www.semarnat.gob.mx/leyes-y-normas/leyes-federales>

- Sitios de Naciones Unidas
- United Nations Development Program <http://www.undp.org/>
- Agenda 21 in Less Than 5 Minutes <https://www.youtube.com/watch?v=govL-fUAWMA>
- ISO 14001 EMS certification requirements presentation <https://www.youtube.com/watch?v=spjwQX-acnA>

**Hemerography:**

Red de Desarrollo Sostenible de Colombia: <http://www.rds.org.co/gestion/>

Ccp. Secretarios Academicos

ccp. Auxiliar Académico

ccp. Alumno