

## Universidad Juárez del Estado de Durango Facultad de Ciencias Forestales



# Learning Unit Programme With an integral professional competences approach

### I. LEARNING UNIT GENERAL DATA

1. learning Unit Name			2. Code			
Environmental Impact Assessmen	t		8510			
3. Academic Unit						
FORESTRY SCIENCES FACULTY						
4. Academic programme			5. Level			
Environmental Mana	agement Engineeri	ing	Higher			
6. Training Area						
Discipline						
7. Academy						
-						
Environmental management						
Environmental management 8. Modality	х	Course		X	Attendance	X
Environmental management  8. Modality  Mandatory	X	Course Course-worksl	hop	X	Attendance Non-attendance	X
Environmental management  8. Modality  Mandatory	X		hop	X		X
Environmental management  8. Modality  Mandatory	X	Course-worksl	hop	X	Non-attendance	X
Environmental management  8. Modality  Mandatory	X	Course-worksl Workshop Seminar	hop eld practice, etc.	X	Non-attendance	X
7. Academy Environmental management 8. Modality Mandatory Elective	X	Course-worksl Workshop Seminar	eld practice, etc.		Non-attendance	X

Geographic Information Systems, Environmental Legislation, Ecological Planning, Territorial Planning, Environmental Management

10. Theory hours	Practice hours	Independent study hours	Total hours	Credits		
3	3	0	6	6		
11. Names of the teacher	11. Names of the teachers who participated in the development and/or modification of the programme					
ROBERTO FLORES ZAMORA						
12. Date of development Date of modification Date of approval			al			
02/12/2014			10/12/2014			

#### II. LEARNING UNIT SPECIFIC DATA

#### 13. Presentation

This course promotes the learning of the basic principles and applied and current methodologies, as well as their concepts on environmental impact assessment. During the development of the course the student will appropriate the various methods for the preparation of environmental impact studies in its various modalities, considering those related to changes in land use, preventive reports, impact statements and justificatory technical studies, considering the regulatory aspects in the matter. The students will develop competences for the interpretation of the elements to be considered for the description of the environment and the environmental and socioeconomic scenario, as inputs for the identification of the impacts and mitigation measures. Although the curriculum does not include hours of independent study, in practice students must attend a significant percentage of time independently to present the products. The course is related to other subjects of the curriculum giving congruence to the graduation profile. The subject is compulsory in the seventh semester and is supported by the prerequisite subjects already mentioned that provide the previous elements.

## 14. Integral professional competences to develop in the student

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	Instrumental
	1. Capability for analysis and synthesis.
	2. Capability for organization and planning.
	3. Oral and written communication.
Generic	4. Computer skills related to the field of study.
competences	5. Information management capability.
·	6. Problem solving.
	7. Decision making.
	Personal
	8. Team work

	9. Critical thinking
	Systemic
	10. Ethical commitment
	11. Self-directed learning
	12. Creativity
	13. Leadership and entrepreneurial spirit
	14. Motivation for quality
	15. Sensitivity to environmental issues
	16. Ability to apply theoretical knowledge in practice
	17. Use of the internet as a means of communication and as a source of information
	18. Ability to communicate with non-experts in the field
	1. Consulting and evaluation of environmental impact. The graduate provides consulting services and strategic
Professional	evaluation to companies and institutions regarding the environmental impact based on ethical and sustainability
	criteria.
competences	2. Management of the natural environment. The graduate manages natural spaces and their use evaluating
	environmental risk and supported by advanced technologies with ethical and professional criteria.
General purpose	That the student can plan a project of an environmental impact study applying the principles of impact assessment in a
of the course	regulatory framework and ethics and respect for the environment favouring the principles of ecological balance and
of the course	protection of the human population.
15. Joint of axes	
The learning unit is	articulated with the transversal axes established from the educational model and congruence and strengthens the axes of

The learning unit is articulated with the transversal axes established from the educational model and congruence and strengthens the axes of research, ethics and values and environmental awareness. The unit is integrated into the area of disciplinary training

## 16. development of the course

Module 1	Normative framework and types of study			
Intended	Learning	Learning product(s)	Strategies	Teaching resources and
learning	contents			materials

The student distinguishes the concepts and explains the relationship of the normative framework with the different types of studies.	Introduction and concepts of environmental impact assessment  Legal framework and types of studies	of impact assessment systems. Make a conceptual map of the subject.  Exhibition using modern technology developed in equipment and presented before the plenary.  Direct discussion of the contents of the types of studies.  Written test that allows inferring the application of the normative framework.	Read the general docur on the subject. Write synthesis and prelectronic exhibition develop a conceptual map. Presentation on the regular framework applicable forestry and environming act. In group dynamics real the contents. Make comparative analysis of contents of the studies MIA) in summary before plenary.	epare and presentation, posters, internet use.  Reading of normative documents in forestry and environmental matters, projector, balloons, posters, methodological guides.  The second comments in the second comments in forestry and environmental matters, projector, balloons, posters, methodological guides.
Module 2	Methodology of th	ne Environmental Impact Assessment		
Intended	Learning	Learning product(s)	Strategies	Teaching resources and materials
learning	contents			
The student uses	Impact	Report A comparative analysis of the	•	Projector, reading documents,
the	assessment	methods.	comparative analysis	evaluation tools, internet use
methods of	methods	Judgment of value on its application	' '	
environmental		according to the type of study.	session. Make a value	
impact assessment				
assessinent			judgment application	

according to the type of study and plans mitigation measures that correspond	Resolution of the matrix methodology to assess the impact and design mitigation measures	Study built in accordance with tofficial guidelines and the regulated framework demonstrating the desito of mitigation measures.  Visit to sites with projects for to identification of environmental impact and mitigation measures, a practice report is delivered with the input used.	the progress and final version in the construction of your project. APP Co-evaluation is practiced.	Projector, assessment instruments such as checklist, methodological guides and content indexes.
Module 3	Management of th	e Environmental Impact Assessment		
Intended learning	Learning contents	Learning product(s)	Strategies	Teaching resources and materials
Judges and bases the process of an EIA, under the official schemes for the	Procedures for a project on impact and land use change.	Presentation of project executive summary. Report of the official procedure before the federal or state instance	Present the executive summary of your project to the plenary. Coevaluation is applied.	Projector, consultation of paperwork guides on environmental and forestry matters, at the federal and state levels: http://www.semarnat.gob.mx/http://srnymadgo.gob.mx
management of the project	Follow-up on terms and conditions	Report on the elements of compliance reports	Develop a report and present the contents of the reports before the plenary session.	Examples of resoluteness, key indicators, and commitments derived from a project in forestry and environmental matters

17. Performance asses	sment:		
Performance evidence(s)	Performance criteria	Application scopes	percentage
•	In all the works content, extension and presentation, use of tools, capability for explanation, analysis and synthesis, understanding and handling of the debate, defence before group, team work, delivery opportunity, value judgments are valued.	summary of your project to the plenary. Co-evaluation is	paperwork guides on

### 18. Evaluation criteria:

Criterion	Value
Formative	Teamwork, attendance and punctuality, timeliness in delivery, attitude and respect for people and property. 25%
Evaluation	
Summative	Form and content of products, management of the files, handling of the debate, daily participation in class, written
evaluation	test results, field practice report. 75%
Criteria	100%
summation	

## 19. accreditation

The ideal condition is that the development of the competition is evident and adheres to the percentages established in the different criteria, however minimums are established to assess the degree of mastery of the competence and obtain the credits of the Learning Unit, in accordance with the following: 50% of their performance or summative evaluation; 10% of the formative evaluation; (self- assessment and coevaluation).

## 20. Information sources

Basic	Batelle Columbus, Lab., 1972. Environmental Evaluation System for Water Resource Planning. Springfield.
	Conesa FernandezVitora, V., 2010. Guía metodológica para la evaluación del impacto ambiental. Ed. Mundi Prensa,

	cuarta edición, Madrid, España. ISBN: 9788484763840. Espinoza Guillermo, 2001. Fundamentos de Evaluación de Impacto Ambiental. Banco Interamericano de desarrollo, BID, y CED, Santiago de Chile. Gómez Orea D. 2010, Evaluación de impacto ambiental, un instrumento preventivo para la gestión ambiental. ISBN: 9788484760849
Complementary	INE. SEMARNAP, 2000, The Evaluation of the Environmental Impact, Achievements and Challenges for Sustainable Development, 1995-2000. First edition. ISBN 968-817-465-3
	SEMARNAT. Methodological guides and indexes of the ETJ and MIA, portal of procedures, http://www.semarnat.gob.mx/ SRNyMA Durango.http: //srnymadgo.gob.mx SEMARNAT,Portal.
	http://www.semarnat.gob.mx/transparencia/transparenciafocalizada/impactoambiental/Paginas/impactoambiental.aspx visits August 09, 2017

## 21. Profile for the teacher who imparts this learning unit

Graduate environmental and specialist subject in the area of environmental impact assessment and management of studies and projects to the federal and state authorities