



UNIVERSIDAD JUÁREZ DEL ESTADO DE DURANGO
FACULTY OF FORESTRY SCIENCES
Forestry Sciences Engineering



Learning Unit Modules
Focused in Integral Professional Competences

I. GENERAL LEARNING UNIT

1. Identification	2. Code	3. Semester	4. Training area
Arid Zones Forestry	TOP44- TOP47	7TH-8TH	Terminal

5. Mode					
Compulsory		Elective	X		
Classroom	X	Non-Attendance		Mixed	
Laboratory		Field practices	X	Guided tours	

6. Class shedule (hours per week)				
Theory	Practice	Independent study	Total hours	Credits
2	1	1	4	4

7. Person responsible for the subject.
María Alma Guadalupe Benítez Castillo

II. DATA SPECIFIC LEARNING UNIT

8. Objectives
- Acquire the general knowledge of the basic considerations that are contemplated in the management of arid and semiarid. - Identification of key plant species that inhabit arid and semi-arid areas to acquire the knowledge of its usefulness and potential. - Analyze the legal and regulatory framework for the exploitation of non-timber forest species. - Identify the techniques and methods of management for major species eligible for use in dry area

9. Presentation.
Management of arid zones provides the knowledge and technical elements necessary for sustainable management of natural resources in arid and semi-arid areas, according to regulations that apply to it.
This course will be taught as an elective course that can be Studied after having studied the fourth semester Career Engineer Forestry, and requires knowledge of other sciences such Sampling and Inventory of Forest Resources, Forest Policy and Legislation, Forest Products No timber and Forest Measurement and others.

10. Professional competences to develop in students.
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Knowledge	Skills	Attitudes	Values
• Trees and bushes constitute structures and applying an efficient use of their parts for human benefit. • Present and reliable methodologies for quantifying forest resources. • Interaction between society and forest resources. • Forest use techniques that carry a sustainable management of forest resource.	• Knowing and handling the constitutive structures of trees and bushes, and promoting an efficient use of their parts for human benefit. • Designing present and reliable methodologies for quantifying forest resources. • Understanding the ecosystem as a complex that provides environmental and economical benefits for society. • Promote the interaction between society and forest resources for proposing viable solutions for the benefit of both society and ecosystems. • Designing and adapting forest use techniques that carry a sustainable management of forest resources.	• Interest in preserving nature. • Collaboration and participation in team works • Open to criticism and with availability to accept them • Availability for collaborating in the profession tasks. • Participating in multidisciplinary scientific and technical teams aimed to the solution of problems that the forest sector has.	• Respect. • Honesty. • Responsibility. • Commitment. • Ethics. • Unity

11. Course topics



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UNIT I: Conceptualization of arid and semiarid zones
UNIT II: Classification of non-timber resources
UNIT III: Economic and social aspects
UNIT IV: Regulations
UNIT V: Development of management plan non-timber forest resources

12. Evaluation criteria

Formative evaluation
Summative evaluation
Self assessment
Co-evaluation
Evaluation hetero

13. Information sources

Basic

SAGARPA 2001. General law of sustainable forest development. Secretariat of Agriculture, Livestock, Rural Development, Fisheries and Food. Mexico
SEMARNAT 2005. Regulation of the General Law for Sustainable Forest Development. Secretary of Environment and Natural Resources. Mexico
Martínez Ramos, M. y A. K. Oyama Nakagawa. 1997. Research resources not timber of Mexico: evolutionary biology and conservation of plants of the genus Chamaedorea. National Autonomous University of Mexico. Institute of Ecology

Complementary

CONAFOR. 2012. Catalogue of timber and non-timber forest resources. National Forestry Commission. 62 pg.
SEMARNAT 2008. Manual which provides technical criteria for sustainable harvesting of non-timber forest resources in arid, semi-arid climates.
http://www.conabio.gob.mx/pais/pdf/CapNatMex/Vol%20I/I01_Elconocimientobiog.pdf