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
Research Seminar II	DSI43	Eighth	Terminal

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

6. Class shedule (hours per week)				
Theory	**Practice**	**Independent study**	**Total hours**	**Credits**
2	0	2	4	4

7. Person responsible for the subject.
José Angel Prieto Ruíz

I. DATA SPECIFIC LEARNING UNIT

8. Objectives

- Ease the process so students can acquire the capabilities, habilities and skills neccesary to develop an investigation project, which can be used as a professional thesis.
- Promote in the students an interest and appreciation for the importance inherent to the activities of investigation, validation and transference of forest technology in order to achieve a sustainable development of the forest resources in Mexico.
- Educate professionals with a high critical sense regarding the problematic of the forest activity and with the capacity to propose alternate solutions.

9. Presentation.

The processes of investigation have a very important function in the generation of knowledge, as well as in the validation and transference of technology, since this can be transformed in a sustainable management concerning the forest resources which will ultimately have a beneficial impact for the resources themselves, the owners and/or keepers and society in general. The Learning Unit “Investigation seminar II” has the purpose of: a). Creating the conditions necessary so the students can develop an investigation project, which may be used as a basis for the later development of their professional tesis, b). Generate in the students an interest concerning the importance of the activities

of investigation, validation and transference of forest technology in order of achieving the sustainable development of the forest resources in the state of Durango, and c). Prepare professionals with a high critical sense respecting the problems of the forest activity and the possible solutions for them.

10. Professional competences to develop in students.			
Knowledge	Skills	Attitudes	Values
• Forest use techniques that carry a sustainable management of forest resource. • Ability to carry out a draft thesis based on the problematic of the forest activity. • Abilities and skills to identify investigation problems.	• Perform investigation of forest aspects, using forest lands as laboratories. • Identifying and writing a draft thesis based on the problematic of the forest activity. • Have an understanding of the elements composing a draft thesis. • Perform investigation of forest aspects. • Ability to present draft research.	• Interest in preserving nature. • Participating in multidisciplinary scientific and technical teams aimed to the solution of problems that the forest sector has. • Interest in the forest research. • Collaboration and participation in team works. • Interest in self learning and continuous learning. • Open to criticism and with availability to accept them.	• Respect. • Honesty. • Responsibility. • Commitment. • Ethics.

11. Course topics
Unit I: Introduction to research. Unit II: Draft thesis structure Unit III: Validation and transference of forest technology
12. Evaluation criteria
Formative evaluation Summative evaluation Self assesment Co-evaluation Evaluation hetero

13. Information sources

Basic

De La Lama G., A. 2005. Estrategias para elaborar investigaciones científicas. Editorial Trillas. México, D.F. 117 p.

Gutiérrez S., R. 1980. Introducción al método científico. Grupo editorial Esfinge. Naucalpan, estado de México. 232p.

Hernández S., R.; Fernández C. C. y Baptista L., P. 2006. Metodología de la investigación. 3a. ed. MC Graw Hill. Chile. 705 p.

Méndez R., I.; Nahamira G., D.; Moreno A.; L y Sosa de M., C. 2000. El protocolo de investigación. Lineamientos para su elaboración y análisis. Editorial Trillas. México, D.F. 210 p.

Schemelker, C. 2006. Manual para la presentación de anteproyectos e informes de investigación (Tesis). 2ª. ed. Editorial Oxford. México, D.F. 206 p.

Complementary

Journals

- Revista Mexicana de Ciencias Forestales
- Revista Chapingo. Serie Ciencias Ambientales y Recursos Naturales
- Revista Madera y Bosques
- Revista Agrociencia
- Revista Bosque

Internet sites

www.conafor.gob.mx
www.semarnat.gob.mx
www.conacyt.gob.mx
www.fao.org