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 área
Research Seminar I	DSE39	Seventh	Terminal

5. Mode					
Compulsory	X	**Elective**			
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	2	0	4	4

7. Person responsible for the subject.
Miguel Ángel Pulgarin Gámiz

I. DATA SPECIFIC LEARNING UNIT

8. Objectives
• That students develop a draft research protocol, to take ownership of the methodological tools that help them problematize the reality, but also apply knowledge, should develop critical and purposeful, sense which can occur when students exposed and socialized their projects.

9. Presentation.
The research seminar is a process of integrating the Protocol to conduct an investigation in accordance with the formats established for this purpose.   This course is located in the Disciplinary area, and other subjects required to be carried in the next semester to achieve registration for thesis topic.

10. Professional competences to develop in students.			
Knowledge	Skills	Attitudes	Values

-Trees and bushes constituve structures and applying an efficient use of their parts for human benefit. - Interaction between society and forest resources. - Complex ecosystem that provides environmental and economic benefits for society.	-Perform investigation of forest aspects, using forest lands as laboratories. - Promote the interaction between society and forest resources for proposing viable solutions for the benefit of both society and ecosystems. - ⬚ Developing diagnosis, planning and assessing the way forest activity affects social, economic political and cultural society needs.	- Collaboration and participation in team works - Open to criticism and with availability to accept them - Availability for collaborating in the profession tasks. - Being objective in the handling of information -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
UNIT I: Types of research. 1.1. Pure and applied research. 1.2 Qualitative and quantitative research. 1.3. Non-experimental research, quasi-experimental and experimental. 1.4 Field research. 1.5 Techniques and instruments for data collection. UNIT II: Development of a research protocol. 2.1 History of the problem. 2.2 Approach to the problem. 2.3 Objectives of research: specific and General. 2.4 Formulation of hypotheses or assumptions (if applicable). 2.5 Rationale: Social, technological, economic and environmental impact. 2.6. Viability of research. 2.7 Design of the theoretical framework (theoretical references). 2.8 Draft of the method. 2.9 Schedule. 2.10. Budget (if applicable). 2.11 Sources. UNIT III: Self-improvement. Submit the research protocol in oral and written form.

3.1 Structure of the Protocol according to established guidelines.
3.2 Evaluation of the Protocol in accordance with the established instruments.
3.3. Registration of the project.

12. Evaluation criteria
Formative evaluation
Summative evaluation
Self-assessment
Co-evaluation
Evaluation hetero

13. Information sources
Basic

- Bernal, T. Cesar Augusto. (2006). *Metodología de la Investigación para la Administración y Economía- 2ª ed-* México: Editorial Prentice Hall.
- Caballero, M. 1980. Métodos en la investigación forestal. Publicación especial Numero 10. SARH.INIF. 118p. Cosnet.
- Hernández, R., Fernández, C. y Baptista, P. 2008 Metodología de la Investigación. Segunda edición. D.F. México:
- Hernández. Sampieri, Roberto Fernández Carlos, Bautista Lucio Pilar, (2008) *Metodología de la Investigación -5ª ed-.* México*:* Mc. Graw Hill.
- Kerlinger, F. N. y Howard, B. L. 2008 Investigación Del Comportamiento. Métodos de Investigación en Ciencias Sociales. México: Mc Graw Hill. Cuarta Edición.
- Martínez, Chávez Víctor Manuel. (2004). *Fundamentos Teóricos para elProceso de diseño de un protocolo en investigación -* 2ª ed- México: Plaza y Valdez.
- Martínez, Patiño Elías. (2002). *Elaboración de Textos Académicos*. México: Ed. Elías.
- Ocegueda Mercado, Corina. (2007). *Metodología de la Investigación, Métodos, técnicas y estructuración de trabajos académicos*.
- Rivera-Heredia, M. E., Arango Pinto, L.G., Torres Villaseñor, C. K., Gil de Muñoz, L. F.; Brito, R., N., Caña, 2009 Competencias para la investigación. Desarrollo de Habilidades y conceptos. México: Trillas

Complementary

- Campos, A. 2009 Métodos Mixtos de Investigación: Integración de la Investigación Cuantitativa y la Investigación Cualitativa. Colombia: Cooperativa Editorial Magisterio.
- Loraine, B. Hughes, C y Tight, M. 2008 Cómo se investiga en España: Graó Vasilachis de Gialdino, I. (coord..)

- Málaga: Aljibe Álvarez-Gayou, J. 2006 Como hacer investigación cualitativa. México.
- http//www.utem.cl /deptogesti/comunicación.htm
- http://www.desi.iteso.mx/elec/instru/protocol.pdf