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
Sampling and Forest Resource Inventory	DMR25	Fifth	Discipline

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	2	6	6

7. Person responsible for the subject.
Manuel Antonio Díaz Vásquez

I.   DATA SPECIFIC LEARNING UNIT

8. Objectives
That the student can apply the concepts and principles of statistical sampling in inventories and research in forest resources
Learning about the different classifications that apply to the forest inventories.
Learning about the elements to plan a forest inventory
Being able to apply cartographic techniques and forest mensuration data were collected to make a forest inventory.
You will be able to apply sampling techniques for the achievement of better results in a forest inventory.
The learner will be able to implement forest inventories in its different modalities.

9. Presentation.
The sampling and forest resource inventory, aims to strengthen the student's knowledge of the engineering career in forestry sciences on how to evaluate and describe quantitatively and qualitatively the forest resources, the application of techniques and methods of sampling, mapping

and dasometrics, with a view to having elements necessary for a sustainable management of these important resources.

10. Professional skills to develop in our students.

Knowledge	Skills	Attitudes	Values
Present and reliable methodologies for quantifying forest resources.	Designing present and reliable methodologies for quantifying forest resources.	Interest in preserving nature. Collaboration and participation in team Works. Interest in self-training and continuous learning. Open to criticism and to the availability to accept them.	Respect. Honesty. Responsibility. Commitment. Ethics.

11. Course topics

Unit I: Conceptual framework of sampling.
Unit II: Sampling techniques
Unit III: Types of forest sampling
Unit IV: Concepts concerning forest inventory.
Unit V: Classification of forest inventories
Unit VI: Planning a forest inventory
Unit VII: Case study

12. Evaluation criteria

Formative evaluation
Summative evaluation
Co-evaluation

13. Information sources

Basic

Hans T. et al 2006. Técnicas Estadísticas para muestreo y monitoreo de recursos naturales. Universidad Autónoma de Chapingo. Méx.144 pp.

Corral, R, et al. Establecimiento de Sitios de Investigación Forestal y de suelos en Bosques del Estado de Durango. Universidad Juárez del Estado de Durango. Ujed editorial. 2009.   Carrillo., E. G. 1991, Apuntes del curso de inventarios forestales, serie de apoyo académico No 35. Universidad Autónoma Chapingo.

Complementary
Notas del Curso "Inventarios Forestales", Díaz V, 1999. Facultad de Ciencias Forestales UJED.   Notas del Curso "Muestreo Forestal", Pulgarín G. 2005. Facultad de Ciencias Forestales UJED.