
	PROCESO PARA EL DESARROLLO DE LAS ENSEÑANZAS DE LA ESCUELA DE INGENIERÍAS AGRARIAS	
	CÓDIGO: P/CL009_EIA_D002	

PROGRAMME IN MATHEMATICS II
Academic course: 2020-2021

Identification and characteristics of the subject			
Code	501126		Credits ECTS 6
Name (Spanish)	Matemáticas II		
Name (English)	Mathematics II		
Degree	ENGINEERING IN AGRICULTURAL AND FOOD INDUSTRIES		
Center	Agricultural Engineering School		
Semester	Second (2º)	Character	Compulsory
Module	Basic		
Subject	Mathematics		
Language	Spanish		
Professor/s			
Name	Room	e-mail	Web link
Pedro Martín Jiménez	A719 Edificio Valle del Jerte	pjimenez@unex.es	http://campusvirtual.unex.es
Field of knowledge	Applied Mathematics		
Department	Mathematics		
Coordinator (in case there is more than one professor)	Pedro Martín Jiménez		
Lessons and contents			
Short description of the subject			
Linear Algebra and Geometry. Introduction to Statistics			
Syllabus			
Part I			
Lesson 1: System of linear equations. Matrices and determinants.			
Lesson 2: Euclidean vector space.			
Lesson 3: Euclidean affine vector space.			
Part II			
Lesson 4: Introduction to Statistics. Descriptive Statistics.			
Lesson 5: Random variables. Probabilistic models.			
Lesson 6: Statistics inference.			

**PRACTICAL SYLLABUS**

Practical lesson 1: **Input-output matrices.**

Practical lesson 2: **Eigenvectors and eigenvalues. Leslie Matrix**

Practical lesson 3: **Systems of linear equations. Euclidean vector space.**

Evaluation of practical lessons 1, 2, and 3.

Practical lesson 4: **One-dimensional and two-dimensional statistics data analysis (part I)**

Practical lesson 5: **One-dimensional and two-dimensional statistics data analysis (part II)**

Practical lesson 6: **Further applications of Statistics, Linear Algebra and Geometry to some degree subject.**