

28926 - Herbaceous crops

Información del Plan Docente

Academic Year	2016/17
Academic center	201 - Escuela Politécnica Superior
Degree	437 - Degree in Rural and Agri-Food Engineering
ECTS	6.0
Course	3
Period	Second semester
Subject Type	Compulsory
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

Theoretical lessons in classroom.

Practical sessions in lab and greenhouse.

Tutorial sessions.

Field visits.

5.2.Learning activities

Theoretical program

Module I - General aspects of herbaceous crop systems

I.1 Introduction and statistical data

I.2. Cereals - morphology

I.3 Farming techniques in herbaceous crops

I.4 Fertilization in herbaceous crops

I.5 Use of certified seed

I.6 Main pests in herbaceous crops

I.7 Quality indexes in cereals

Module II - Specific aspects of each crop (15 class hours)

II.8 Cereals - soft and durum wheat

II.9 Cereals - barley

II.10 Some other winter cereals - oats, rye and triticale

II.11 Cereals - maize

II.12 Cereals - rice

II 13 Cereals - sorghum

II. 14 Grain legumes

II.15 Fodder legumes - alfalfa

II.16 Fodder grasses

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II.17 Sunflower

II.18 Oilseed rape

Content of practical sessions

Module I - General aspects of herbaceous crop systems. Theoretical and practical lessons

Module II - Specific aspects of each crop. Theoretical and practical lessons. Field visit

5.3.Program

Theoretical program

Module I - General aspects of herbaceous crop systems

I.1 Introduction and statistical data

I.2. Cereals - morphology

I.3 Farming techniques in herbaceous crops

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Content of practical sessions

Module I - General aspects of herbaceous crop systems

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Field visits

5.4.Planning and scheduling

week	1	2	3	4	5	6	7	SS	8	9	10	11	12	13	14	15
Theoretical sessions	I.1	I.2	I.2	I.3	I.4	I.5 y I.6	I.6 y I.7		II.8	II.9 y II.10	II.11	II.12 y II.13	II.14	II.15	II.15 y II.16	II.17 y II.18
Hous	2	2	2	2	2	2	2		2	2	2	2	2	2	2	2
Practical sessions	II.9 y II.10	II.14	II.15 y II.16	I.4 y I.5												
Hous	2	2	2	2					2	2	2	2	2			
Field visit						Salda 1								Salda 2		
Hous	5					5								5		
Evaluation															1	2
Personal work	5	5	5	5	5	4	5	8	5	5	5	5	5	5	7	8

5.5.Bibliography and recomended resources

Basic references

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Guerrero García, Andrés. Cultivos herbáceos extensivos. 6ª ed. rev. y ampl. Madrid : Mundi-Prensa, 1999

López Bellido, Luis. Cultivos herbáceos. Vol. I, Cereales. Madrid : Mundi-Prensa, 1991

López Bellido, Luis. Cultivos industriales. Madrid [etc.] : Mundi-Prensa, 2003

Complementary references

Franco Jubete, F y Ramos Monreal, A (coordinadores). El cultivo de las leguminosas de grano en Castilla y León. Valladolid : Consejería de Agricultura y Ganadería, D.L.1996

Molina Cano, José Luis. La cebada. Madrid : Ministerio de Agricultura, Pesca y Alimentación, Servicio de Extensión Agraria : Mundi-Prensa, 1989

Muslera Pardo, Enrique de. Praderas y forrajes : producción y aprovechamiento. 2a. ed. rev. y ampl. Madrid : Mundi-Prensa, 1991