

28926 - Herbaceous crops

Syllabus Information

Academic Year: 2021/22

Subject: 28926 - Herbaceous crops

Faculty / School: 201 - Escuela Politécnica Superior

Degree: 583 - Degree in Rural and Agri-Food Engineering

ECTS: 6.0

Year: 3 and 4

Semester: Second semester

Subject Type: Optional

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as:

- Lectures in the classroom.
- Practical sessions in the lab and greenhouse.
- Tutorial sessions.
- Field visits.

4.2. Learning tasks

The course includes the following learning tasks:

Lectures

- Section I ? General aspects of herbaceous crop systems
- Section II ? Specific aspects of each crop (15 class hours)

Practice sessions

- Section I - General aspects of herbaceous crop systems. Theoretical and practical lessons
- Section II ? Specific aspects of each crop. Theoretical and practical lessons. Field visits.

Tutorials

Fieldvisit

4.3. Syllabus

The course includes the following topics:

- Topic 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
- Topic 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
 - II.17 Sunflower
 - II.18 Oilseed rape

Content of practical sessions

- Topic I - General aspects of herbaceous crop systems
 - I.2. Cereals ? morphology
 - I.4 Fertilization in herbaceous crops
 - I.5 Use of certified seed
- Topic II ? Specific aspects of each crop
 - 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
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 - II.16 Fodder grasses
 - II.17 Sunflower
 - II.18 Oilseed rape
- Field visits

4.4. Course planning and calendar

Week	1	2	3	4	5	6	7	SS	8	9	10	11	12
Theoretical sessions	I.1	I.2	I.2	I.3	I.4	I.5 and I.6	I.6 and I.7		II.8	II.9 and II.10	II.11	II.12 and II.13	II.14
Hours	2	2	2	2	2	2	2		2	2	2	2	2
Practical sessions	II.8	II.9 and 10	II.14	II.15 and 16	I.4 and 5								
Hours	2	2	2	2	2				2	2	2	2	2
Field visit						Visit 1							
Hours		5				5							
Evaluation													
Personal work	5	5	5	5	5	4	5	8	5	5	5	5	5

4.5. Bibliography and recommended resources

- BB** Guerrero García, Andrés. Cultivos herbáceos extensivos / Andrés Guerrero García . 6ª ed. rev. y ampl. Madrid : Mundi-Prensa, 1999
- BB** López Bellido, Luis. Cultivos herbáceos. Vol. I, Cereales / Luis López Bellido. Madrid : Mundi-Prensa, 1991
- BB** López Bellido, Luis. Cultivos industriales / Luis López Bellido . Madrid [etc.] : Mundi-Prensa, 2003
- BB** Molina Cano, José Luis. La cebada : [morfología, fisiología, genética, agronomía y usos industriales / José Luis Molina Cano ; con la colaboración de Luis F. García del Moral... [et al.] . Madrid : Ministerio de Agricultura, Pesca y Alimentación, Servicio de Extensión Agraria : Mundi-Prensa, 1989
- BC** El cultivo de las leguminosas de grano en Castilla y León / coordinadores, Fernando Franco Jubete, Alvaro Ramos Monreal . Valladolid : Consejería de Agricultura y Ganadería, D.L.1996
- BC** Muslera Pardo, Enrique de. Praderas y forrajes : producción y aprovechamiento / E. de Muslera Pardo, C. Ratera García . 2a. ed. rev. y ampl. Madrid : Mundi-Prensa, 1991

The updated recommended bibliography can be consulted in:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=28926>