

28959 - Integrated production and agroecology

Información del Plan Docente

Academic Year	2017/18
Faculty / School	201 - Escuela Politécnica Superior
Degree	437 - Degree in Rural and Agri-Food Engineering
ECTS	5.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

Theoretical lessons in classroom.

Practical sessions in lab.

Tutorial sessions.

28959 - Integrated production and agroecology

Field visits.

5.2.Learning tasks

I. Crop ecology. Theoretical and practical lessons

II. Legislation and standards for integrated production and agroecology Theoretical and practical lessons

III. Resource management Theoretical and practical lessons. Field visit

5.3.Syllabus

Theory Programme

I. Crop ecology

a. Introduction: Sustainability of agricultural systems

b. Community concepts

II. Legislation and standards for integrated production and agroecology

a. Integrated production

b. Ecological agriculture

III. Resource management

a. Soil management

b. Water management

c. Vegetation cover management

d. Integrated crop protection

Practical programme

28959 - Integrated production and agroecology

- I. Characterisation of the initial situation: Surveys
- II. Detecting problematic situations
- III. Handling alternatives

Field visit

5.4. Course planning and calendar

Week	1	2	3	4	5	6	7	SS	8	9	10	11	12	13	14	15
Sessions	I-a	I-b	II a	II-b	III-a	III-b	III-b		III-c	III-c	III-d					
Hours	2	2	2	2	2	2	2		2	2	2					
Practical sessions	I		II	II	II	III			III	III	III	III	III	III	III	
Hours	2		2	2	2	2			2	2	2	2	2	2	2	
Field visit			V-1													
Hours			4													
Evaluation																3
Personal work	5	5	3	3	3	3	4	6	4	4	4	4	4	4	6	8
TOTAL	9	9	11	7	7	7	8	6	8	8	8	6	6	6	8	11

5.5. Bibliography and recommended resources

BB

Agroecología y desarrollo : aproximación a los fundamentos agroecológicos para la gestión sustentable de agrosistemas mediterráneos / Juana Labrador Moreno, Miguel Ángel Altieri (coordinadores) .

28959 - Integrated production and agroecology

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Madrid : Mundi- Prensa, 2001
Fernández Ales, Rocío. Ecología para la
agricultura / Rocío Fernández Alés, María
BB José Leiva Morales . Madrid [etc.] :
Mundi-Prensa, 2003
Gliessman, Stephen R.. Agroecología :
BB procesos ecológicos en agricultura
sostenible / Stephen R. Gliessman .
Turrialba : CATIE , 2002
Loomis, R.S.. Ecología de cultivos :
BB Productividad y manejo en sistemas
agrarios / R.S. Loomis, D.J. Connor .
Madrid : Mundi-Prensa, 2002
Powers, Laura E.. Principios ecológicos en
BB agricultura / Laura E. Powers, Robert
McSorley ; traducido por Alfredo Pozuelo. .
Madrid : Paraninfo, Thomson Learning,
2001
Agricultura sostenible / coordinadores,
BC Rafael M. Jiménez Díaz y Jaime Lamo de
Espinosa . Madrid : Mundi-Prensa :
Agrofuturo : Life, 1998
Agroecology / [edited by] C. Ronald
BC Carroll, John H. Vandermeer, Peter Rosset
. New York ; London : McGraw-Hill, c1990
Carrero, José María. Lucha integrada
BC contra las plagas agrícolas y forestales /
José María Carrero . Madrid :
Mundi-Prensa, 1996
Dajoz, Roger. Tratado de ecología / Roger
BC Dajoz ; traducción y revisión técnica María
José Leiva Morales . 2ª ed., rev. y amp.
Madrid : Mundi-Prensa, 2002
La práctica de la agricultura y ganadería
BC ecológicas / [autores: Itziar Aguirre
Jiménez... [et al.]] . 2ª ed. Sevilla : Comité
Andaluz de Agricultura Ecológica, 2002
Margalef, Ramón. Ecología / Ramón
BC Margalef . 10a reimp. Barcelona : Omega,
cop. 2005

The updated recommended bibliography can be consulted in:
<http://psfunizar7.unizar.es/br13/egAsignaturas.php?id=8120>