



Year : 2018/19

28959 - Integrated production and agroecology

Syllabus Information

Academic Year:	2018/19
Subject:	28959 - Integrated production and agroecology
Faculty / School:	201 -
Degree:	437 - Degree in Rural and Agri-Food Engineering
ECTS:	5.0
Year:	4
Semester:	Second semester
Subject Type:	Optional
Module:	---

General information

Aims of the course

Context and importance of this course in the degree

Recommendations to take this course

Learning goals

Competences

Learning goals

Importance of learning goals

Assessment (1st and 2nd call)

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

Methodology, learning tasks, syllabus and resources

Methodological overview

Theoretical lessons in classroom.

Practical sessions in lab.

Tutorial sessions.

Field visits.

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

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

I. Characterisation of the initial situation: Surveys

II. Detecting problematic situations

III. Handling alternatives

Field visit

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-d	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	4	6	4	4	4	4	4	4	4	6	8
TOTAL	9	11	7	7	7	8	6	8	8	8	6	6	6	6	8	11

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) . Cáceres : Universidad de Extremadura ; Madrid : Mundi- Prensa, 2001

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Fernández Ales, Rocío. Ecología para la agricultura / Rocío Fernández Alés, María José Leiva Morales . Madrid [etc.] : Mundi-Prensa, 2003

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Gliessman, Stephen R.. Agroecología : procesos ecológicos en agricultura sostenible / Stephen R. Gliessman .

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

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