



Universitat de Lleida

# DEGREE CURRICULUM

# **ORGANIC PRODUCTION**

Coordination: VILLALBA MATA, DANIEL

Academic year 2021-22

## Subject's general information

<b>Subject name</b>	ORGANIC PRODUCTION			
<b>Code</b>	100330			
<b>Semester</b>	2nd Q(SEMESTER) CONTINUED EVALUATION			
<b>Typology</b>	Degree	Course	Character	Modality
	Double bachelor's degree: Bachelor's Degree in Veterinary Medicine and Bachelor's Degree in Science and Production	5	OPTIONAL	Attendance- based
<b>Course number of credits (ECTS)</b>	6			
<b>Type of activity, credits, and groups</b>	<b>Activity type</b>	PRACAMP	PRAULA	TEORIA
	<b>Number of credits</b>	1.2	1.6	3.2
	<b>Number of groups</b>	2	1	1
<b>Coordination</b>	VILLALBA MATA, DANIEL			
<b>Department</b>	ANIMAL HUSBANDRY			
<b>Teaching load distribution between lectures and independent student work</b>	Presential: 60 h Non presential: 90 h			
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.			
<b>Language</b>	50% Catalan 50% Spanish			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ARGEMI ARMENGOL, IMMACULADA	immaculada.argemi@udl.cat	1,8	
BLANCO PENEDO, MARIA ISABEL	isabel.blancopenedo@udl.cat	2	
CHOCARRO GOMEZ, CRISTINA	cristina.chocarro@udl.cat	1,2	
SANTIVERI MORATA, FRANCISCA	paquita.santiveri@udl.cat	,6	
VILLALBA MATA, DANIEL	daniel.villalba@udl.cat	,8	
ÁLVAREZ RODRÍGUEZ, JAVIER	javier.alvarez@udl.cat	,8	

## Learning objectives

The student who passes this course must:

Know the concepts of sustainability and the different types of alternative livestock to conventional, especially classified as organic by European legislation.

Know the European legislation on organic farming and the implications of its implementation in swine, poultry and ruminant productions.

Know and learn to use the tools for diagnosing the sustainability of livestock farms.

Know the principles of health and animal welfare for the sustainable development of livestock systems

## Competences

General competences

C1. Know the conditions of organic production and be able to manage this type of livestock systems

CB2: That students know how to apply their knowledge to their work or vocation in a professional way and possess the competencies that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study.

CG1 Identify animals and products of animal origin, as well as their importance in society and in the food chain.

CG4 Manage animal production systems in order to increase efficiency (technical, economic, environmental, ...)

and sustainability of the food chain over time.

CE6 Identify the different elements and particularities of the agro-livestock ecosystem. Evaluate the importance and characteristics of the different animal species, racial groups and productive aptitudes of the same to be able to choose the most suitable genetic material based on the different possible productive objectives. Describe the different livestock production systems (extensive, intensive, etc.) and be able to understand the role of animals in the food chain

CT9 Select and manage the available written and computerized sources of information related to the professional activity.

CT12 Acquire comprehensive training.

CT13 Maintain an ethical behavior in the exercise of their responsibilities before the profession and society

## Subject contents

### UNIT I. Introduction (14 h)

Topic 1. The concept of sustainable livestock and organic livestock. Definition of sustainability. Conceptions of organic production. (THEORY: 2h)

Topic 2. Social and economic importance of organic livestock. Past, present and future. Definition of normative organic production. Censuses and statistics. (THEORY: 2h, PRAULA: 2h)

Topic 3. Health and welfare in the field of organic livestock. Therapeutic and preventive tools. Natural therapies and their use. Phytotherapy. Homeopathy. (THEORY: 6h, PRAULA: 2h)

### UNIT II. Ecological and Sustainable Livestock in different livestock species (40 hours)

Topic 4. Production of organic forages. Key points that condition the quality of forages in organic production. (THEORY: 2h)

Topic 5. Pastures and meadows and sustainable livestock. Pastoral harvesting systems. Integration of grazing in organic production systems. (THEORY: 2h; PRAULA: 2h)

Topic 6. Sustainable and organic poultry production. Nutrition and facilities under organic production regulations. Organic production systems. Main challenges of organic production in poultry. (THEORY 4 hrs; PRAULA: 2 hrs)

Topic 7. Sustainable and organic pig production. Nutrition and facilities under organic production regulations. Ecological production systems. Main challenges of organic production in ruminants. (THEORY 6h; PRAULA: 2h; PRACAMP: 6h)

Topic 8. Sustainable and organic ruminant production. Nutrition and facilities under organic production regulations. Ecological production systems. Main challenges of organic production in ruminants. (THEORY 4h; PRAULA: 4h; PRACAMP: 6h)

### UNIT III. Analysis / Diagnosis of the sustainability of livestock farms (6 hours)

Topic 9. Methodologies for Analysis / Diagnosis of the sustainability of livestock farms. Practical approaches to the evaluation of sustainability at the farm level. The MESMIS Assessment Framework. Life cycle assessment in livestock. Ecosystem services. (THEORY: 4h; PRAULA: 2h)

**CLASSROOM PRACTICES** Classroom practices will consist of discussion seminars and student participation in the field of the corresponding topic.

**FIELD PRACTICES** Visits to livestock farms where sustainability and / or organic production criteria are applied. This visit or visits (depending on the availability of the farmers) will be complemented with a seminar to discuss the visits

## Methodology

Type of activity	Description	Student face-to-face activity		Non-face-to-face student activity		evaluation	Total time / ECTS
		objectives	hours	Student work	hours	hours	hours
Master lesson	Master class (Classroom. Large group)	Explanation of the main concepts	32	Study: Know, understand and synthesize knowledge	46	2	80 / 3.2
Problems and cases	Participatory class (Classroom. Large group)	Resolution of problems and cases	16	Learn to solve problems and cases	22	2	40 / 1.6
Field practices	Field practice (Medium group)	Execution of the practice: understanding phenomena, measuring ...	12	Study and perform memory	18		30 / 1.2

Observations: 25 h of activity per ECTS credit have been considered

## Evaluation

Type of activity	Evaluatory activity	Number	Rating weight
	Procedure	2	%
Master lesson	Written tests on the theory of the subject program		60
Problems and cases	Final document evaluation Presentation and defense of course work	3	30
Field practices	Delivery of visits memories	2	10
<b>Total</b>			<b>100</b>

Observations

For the purposes of the final grade, to pass the course, a grade equal to or greater than 5 points must be obtained as a cumulative result of all the tests, it is necessary that none of them be less than 4.

## Bibliography

### Basic bibliography

ALFONSO, L. y ESTANY, J. (1996) Organización y esquemas de mejora animal. Universitat de Lleida

Autors Varis, 2011. L'Avicultura ecològica de carn, 2011. Fitxa Tècnica PAE num. 15. DAR, Generalitat de

## Catalunya

Ayers, R.S., D.W. Westcot. 1987. La calidad del agua de riego en la agricultura. Estudio FAO Riego y Drenaje., 29 Rev 1. Roma.

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Pierzynski, G.M., J.T. Sims & G.F. Vance. 1994. Soils and Environmental Quality. Lewis Publishers. CRC Press, Boca Raton. Florida

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Vila, Ll., 2012. Producción porcina ecológica. 1. Normativa y certificación de la producción porcina ecológica. SUIS Nº 89, 42-53.

Vila, Ll., Alvarez-Rodriguez, J., Manzanilla, E.G., 2012a. Producción porcina ecológica. 2. Planificación de la producción, dimensionamiento de la explotación e instalaciones. SUIS Nº 90, 40-47.

Vila, Ll., Alvarez-Rodriguez, J., Manzanilla, E.G., 2012b. Producción porcina ecológica. 3. Manejo del ganado, alimentación y sanidad. SUIS Nº 91, 34-45

### Complementary bibliography

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– # Reglament (CE) 889/2008 de la Comissió, de 5 de setembre de 2008, pel qual s'estableixen disposicions d'aplicació del Reglament (CE) 834/2007 del Consell sobre producció i etiquetatge dels productes ecològics respecte la producció ecològica, el seu etiquetatge i el seu control.

[http://www20.gencat.cat/docs/DAR/AL\\_Alimentacio/AL01\\_PAE/03\\_Normativa/Fitxers\\_estatics/Reg834\\_v081013.pdf](http://www20.gencat.cat/docs/DAR/AL_Alimentacio/AL01_PAE/03_Normativa/Fitxers_estatics/Reg834_v081013.pdf)

– # Reglament (CE) 967/2008 del Consell, de 29 de setembre de 2008, pel qual es modifica el Reglament (CE) 834/2007 sobre producció i etiquetatge dels productes ecològics.

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