

COURSE DESCRIPTION

COURSE DETAILS

Title (of the course): **ORGANIC ANIMAL PRODUCTION**

Code: 101497

Degree/Master: **GRADO DE VETERINARIA**

Year: 5

Field: OPTATIVA

Character: OPTATIVA

Duration: FIRST TERM

ECTS Credits: 3.0

Classroom hours: 30

Face-to-face classroom percentage: 40.0%

Study hours: 45

Online platform:

LECTURER INFORMATION

Name: ARCE JIMÉNEZ, CRISTINA (Coordinator)

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Area: PRODUCCIÓN ANIMAL

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Name: RODRÍGUEZ ESTÉVEZ, VICENTE

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Area: PRODUCCIÓN ANIMAL

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PREREQUISITES AND RECOMMENDATIONS

Prerequisites established in the study plan

Students must hold B1 English level.

Recommendations

None specific



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INTENDED LEARNING OUTCOMES

- CT1 To solve problems.
- CT2 Teamwork.
- CT3 Ability to apply knowledge in a practical way.
- CT4 Decision making.
- CT6 Ability for analysis and synthesis.
- CE18 Marketing and management of the veterinary company.
- CE29 Veterinary regulation and legislation
- CE51 Raw materials for animal nourishment: characteristics, production and conservation.
- CE52 Economy of the livestock productive process and commercialisation.
- CE53 Sustainable development.
- CE55 Animal nutrition and nourishment.
- CE57 Animal mono-gastric production: traditional and current systems.
- CE58 Animal husbandry of ruminants: traditional and current systems.
- CE60 Basis of livestock facilities and environmental health.

OBJECTIVES

- To understand Organic Farming as a system based on grazing and rational use of forages by using autochthonous and adapted breeds.
- To know the importance of Organic Farming in Spain and the EU under the framework of the Common Agricultural Policy.
- To know the legislation that frames the organic livestock production.
- To identify opportunities for sustainable development from Organic Farming in Spain.
- To know the different farming systems to organically produce animal products.
- To aware of the importance of organic farming as a guaranty of quality and food safety, respect for the environment and animal welfare.
- To know certification process and marketing problems.
- To achieve efficiency in obtaining and disseminating information and results through multidisciplinary groups.
- To understanding the role of livestock within agroecosystems and natural protected areas.

CONTENT

1. Theory contents

CONTENTS BLOCK I. General Introduction

1. Introduction to organic awareness
2. Introduction to Organic Farming
3. Rules of Organic Farming (I): general
4. Rules of Organic Farming (II): specifications

CONTENTS BLOCK II. Livestock and environmental protection

5. Animal production and environmental protection



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6. Agroecosystems: dehesa
7. Sustainability: calculating stocking rate

CONTENTS BLOCK III. The practice of Organic Farming

8. Native breeds and quality products
 9. Ethnoveterinary: the traditional livestock knowledge
- Contents block IV. The situation of the organic farming sector**
10. Organic Farming in the European Common Agricultural Policy.
 11. Weaknesses, strengths, threats and opportunities of organic farming

2. Practical contents

Assessing the role of organic livestock on grasslands and natural protected areas.

Group visit to a dehesa agroecosystem farm.

Analysis-surveys of actual cases of different organic farms corresponding to the subsectors (the student should try to visit the corresponding farm):

- meat sheep
- dairy sheep
- cattle
- dairy cattle
- meat goat
- dairy goat
- pig
- poultry
- laying hens

SUSTAINABLE DEVELOPMENT GOALS RELATED TO THE CONTENT

Affordable and clean energy

Responsible consumption and production

METHODOLOGY

Methodological adaptations for part-time students and students with disabilities and special educational needs

Subject will be adapted depending on each student necessity.

Face-to-face activities

| Activity | Large group | Small group | Total |
|---------------------------|-------------|-------------|-------|
| <i>Case study</i> | - | 2 | 2 |
| <i>Conference</i> | 2 | - | 2 |
| <i>Excursions</i> | - | 5 | 5 |
| <i>Group presentation</i> | 5 | - | 5 |
| <i>Lectures</i> | 8 | - | 8 |
| <i>Seminar</i> | - | 7 | 7 |
| <i>Tutorials</i> | - | 1 | 1 |



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| Activity | Large group | Small group | Total |
|---------------------|-------------|-------------|-----------|
| Total hours: | 15 | 15 | 30 |

Off-site activities

| Activity | Total |
|---------------------------|-----------|
| <i>Analysis</i> | 2 |
| <i>Group work</i> | 5 |
| <i>Information search</i> | 18 |
| <i>Reference search</i> | 10 |
| <i>Self-study</i> | 10 |
| Total hours | 45 |

WORK MATERIALS FOR STUDENTS

Oral presentations

References

EVALUATION

| Intended learning | Case Studies | Document Analysis | Oral Presentation | Portfolios |
|-------------------|--------------|-------------------|-------------------|------------|
| CE18 | X | X | X | |
| CE29 | X | X | X | |
| CE51 | X | X | X | |
| CE52 | X | X | X | |
| CE53 | X | X | X | |
| CE55 | X | X | X | |
| CE57 | X | X | X | |
| CE58 | X | X | X | |
| CE60 | X | X | X | |
| CT1 | X | X | X | X |
| CT2 | X | | X | X |
| CT3 | X | X | X | |
| CT4 | X | X | X | |



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| Intended learning | Case Studies | Document Analysis | Oral Presentation | Portfolios |
|----------------------|--------------|-------------------|-------------------|------------|
| CT6 | X | X | X | |
| Total (100%) | 20% | 15% | 20% | 45% |
| Minimum grade | 4 | 4 | 4 | 3 |

(*)Minimum mark (out of 10) needed for the assessment tool to be weighted in the course final mark. In any case, final mark must be 5,0 or higher to pass the course.

Method of assessment of attendance:

Attendance is the 45% of the final mark.

General clarifications on instruments for evaluation:

In relation to the previous table:

Document Analysis= Oral presentation

Portfolios= Attendance sheets

The grades will be valid for all calls of the 2022/23 academic year.

Clarifications on the methodology for part-time students and students with disabilities and special educational needs:

Subject will be adapted to each student necessity.

Clarifications on the evaluation of the first extraordinary call and extra-ordinary call for completion studies:

The evaluation of the first extraordinary call and the extraordinary call for completion of the studies, when necessary, will be done in accordance with the University and the Faculty of Veterinary Medicine regulations. The students affected should get in contact with the professor responsible for the subject.

Qualifying criteria for obtaining honors:

Student with the best mark in each section.

BIBLIOGRAPHY

1. Basic Bibliography

Look it up online at moodle platform for more references in English..

- Carson, R. 1962. Silent Spring. London.
- FAO. 2015. The second report on the state of the world's Animal Genetic Resources for Food and Agriculture. Rome. <http://www.fao.org/3/a-i4787e.pdf>
- Kirschenmann, F.L. 2010. Cultivating an Ecological Conscience. Berkeley. ORGANIC ANIMAL PRODUCTION 6/7 2016/17 Year
- MAGRAMA. <http://www.magrama.gob.es/es/alimentacion/temas/la-agricultura-ecologica/>
- Mata Moreno, C. et al. 2001. Principios técnicos de Ganadería Ecológica. Comité Andaluz de Agricultura Ecológica (CAAE). Sevilla.
- Meadows, D.; Randers, J.; Meadows, D. Limits to Growth: The 30-year update. Vermont.
- Reglamento (CE) Nº 834/2007 del Consejo de 28 de junio de 2007 sobre producción y etiquetado de los



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productos ecológicos y por el que se deroga el Reglamento (CEE) nº 2092/91.

- Reglamento (CE) 834/2007 del Consejo de 28 de junio de 2007 sobre producción y etiquetado de los productos ecológicos y por el que se deroga en el Reglamento (CEE) 2092/91.
- Reglamento (CE) 889/2008 de la Comisión, por el que se establecen disposiciones de aplicación del R(CE) 834/2007 con respecto a la producción ecológica, su etiquetado y control.
- Reglamento (CE) 1235/2008 de la Comisión por el que se establecen las disposiciones de aplicación del R(CE) 834/2007, en lo que se refiere a las importaciones de productos ecológicos procedentes de terceros países.
- Revista Bovis (nº 110). (2003). Ganadería Ecológica Bovina de Carne. Madrid.
- Revista Ovis (nº 94). (2004). Agrosistemas Ovinos Ecológicos. Madrid.
- Revista Porci (nº 89). (2005). Porcino Ecológico. Madrid.
- Rodero E. y cols (coordinadores) (2007). Patrimonio ganadero andaluz. Ed. Consejería de Agricultura y Pesca de la Junta de Andalucía

2. Further reading

- Acosta Naranjo, R., Díaz Aguilar A.L., Amaya Corchuelo, S. 2001. Memorias de la tierra, campos de la memoria. Los agroecosistemas tradicionales de Tentudía. Volumen 1: Dehesa y tierras calmas.
 - Acosta Naranjo, R. 2002. Los entramados de la Diversidad. Antropología social de la Dehesa. Colección raíces.
 - Allen, P. 1993. Food for the Future: Conditions and Contradictions of Sustainability. New York: Wiley.
 - Altieri, M.A., Nicholis, C.I. 2005. Agroecology and the Search for a Truly Sustainable Agriculture. 1st ed. Mexico D.F., Mexico: United Nations Environmental Programme Environmental Training Network for Latin America and the Caribbean.
 - Barrios, J.C., Fuentes, M.T., Ruiz, J.P. 1992. El Saber Ecológico de los Ganaderos de la Sierra de Madrid. Agencia de Medio Ambiente de la Comunidad de Madrid.
 - FAO. 2007. The State of the World's Animal Genetic Resources for Food and Agriculture. Ed. Barbara Rischkowsky & Dafydd Pilling. R
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7/7

2016/17 Year

- Fernández Ronquillo, B. 2005. Faenas Camperas. Tradiciones y usos camperos desaparecidos. Al Ándalus Ediciones.
- Gasca Arroyo, A. 1999. Principios de la Gestión Sanitaria en Ganadería Ecológica y Extensiva. Comité Andaluz de Agricultura Ecológica (CAAE). Sevilla.
- Gliessman, S.R. 2007. Agroecology: The Ecology of Sustainable Food Systems. 2nd ed. Boca Raton: CRC Press.
- Lapkin, N. 1998. Agricultura ecológica. Ed. Mundiprensa. Madrid
- Mata Moreno C., Maurer P., Rodríguez Estévez V., Fernández Reyes A. 2004. Recopilación del conocimiento ganadero tradicional de la comarca de la Sierra de Cádiz y su validación para la reconversión e implantación de la Ganadería Ecológica. ASAJA-Córdoba y UCO Producción Animal.
- Rodríguez-Estevez, V., A. García Martínez, J.M., Perea Muñoz, C. Mata Moreno y A.G. Gómez Castro. 2007. Producción de bellota en la dehesa: factores influyentes. Arch. Zootec., 56 (R): 25-43.
- San Miguel Ayanz, A. 1994. La dehesa española. Fundación Conde del Valle de Salazar. Madrid.
- Sañudo, C. 2008. Manual para la comprensión y diferenciación racial de las especies ganaderas. SERVET. Zaragoza.

COORDINATION CRITERIA

Common evaluation criteria

Joint activities: lectures, seminars, visits ...

Tasks deadlines



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The methodological strategies and the evaluation system contemplated in this Course Description will be adapted according to the needs presented by students with disabilities and special educational needs in the cases that are required.

CONTINGENCY PLAN: CASE SCENARIO A

Case scenario A will correspond to a diminished on-site academic activity due to social distancing measures affecting the permitted capacity of classrooms.

METHODOLOGY

General clarifications on the methodology on case scenario A

A multimodal (hybrid) teaching system will be adopted, combining both on-site and remote classes via videoconference (synchronous) that will be held in the timetable approved by the corresponding Faculty or School. The time distribution of teaching activities (both on-site and remote) will be decided by the aforementioned Faculties and Schools bearing in mind the permitted capacity of classrooms and social distancing measures as established at that time.

General clarifications on the methodology on case scenario A

A multimodal (hybrid) teaching system will be adopted, combining both on-site and remote classes via videoconference (synchronous) that will be held in the timetable approved by the corresponding Faculty or School. The time distribution of teaching activities (both on-site and remote) will be decided by the aforementioned Faculties and Schools bearing in mind the permitted capacity of classrooms and social distancing measures as established at that time.



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EVALUATION

| Intended learning | Case Studies | Document Analysis | Oral Presentation | Portfolios |
|----------------------|--------------|-------------------|-------------------|------------|
| CE18 | X | X | X | |
| CE29 | X | X | X | |
| CE51 | X | X | X | |
| CE52 | X | X | X | |
| CE53 | X | X | X | |
| CE55 | X | X | X | |
| CE57 | X | X | X | |
| CE58 | X | X | X | |
| CE60 | X | X | X | |
| CT1 | X | X | X | X |
| CT2 | X | | X | X |
| CT3 | X | X | X | |
| CT4 | X | X | X | |
| CT6 | X | X | X | |
| Total (100%) | 20% | 15% | 20% | 45% |
| Minimum grade | 4 | 4 | 4 | 3 |

(*)Minimum mark (out of 10) needed for the assessment tool to be weighted in the course final mark. In any case, final mark must be 5,0 or higher to pass the course.

Method of assessment of attendance (Scenario A):

Attendance is the 45% of the final mark.

General clarifications on instruments for evaluation (Scenario A):

In relation to the previous table:

Document Analysis= Oral presentation

Portfolios= Attendance sheets

Clarifications on the methodology for part-time students and students with disabilities and special educational needs (Scenario A):

Subject will be adapted to each student necessity.

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CONTINGENCY PLAN: CASE SCENARIO B

Case scenario B will bring about a suspension of all on-site academic activities as a consequence of health measures.

METHODOLOGY

General clarifications on the methodology on case scenario B

On-site teaching activities will be held via videoconference (synchronous) in the timetable approved by the corresponding Faculty or School. Alternative activities will be proposed for reduced groups in order to guarantee the acquisition of course competences.

Case scenario B will bring about a suspension of all on-site academic activities as a consequence of heath measures.

General clarifications on the methodology on case scenario B

On-site teaching activities will be held via videoconference (synchronous) in the timetable approved by the corresponding Faculty or School. Alternative activities will be proposed for reduced groups in order to guarantee the acquisition of course competences.

EVALUATION

| Intended learning | Case Studies | Document Analysis | Oral Presentation | Portfolios |
|-------------------|--------------|-------------------|-------------------|------------|
| CE18 | X | X | X | |
| CE29 | X | X | X | |
| CE51 | X | X | X | |
| CE52 | X | X | X | |
| CE53 | X | X | X | |
| CE55 | X | X | X | |
| CE57 | X | X | X | |
| CE58 | X | X | X | |
| CE60 | X | X | X | |
| CT1 | X | X | X | X |
| CT2 | X | | X | X |
| CT3 | X | X | X | |
| CT4 | X | X | X | |
| CT6 | X | X | X | |



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| Total (100%) | 20% | 15% | 20% | 45% |
| Minimum grade | 4 | 4 | 4 | 3 |

(*)Minimum mark (out of 10) needed for the assessment tool to be weighted in the course final mark. In any case, final mark must be 5,0 or higher to pass the course.

| Moodle Tools | Case Studies | Document Analysis | Oral Presentation | Portfolios |
|--|--------------|-------------------|-------------------|------------|
| <i>Attendance</i> | | | X | |
| <i>Forum</i> | X | | X | X |
| <i>Group selection</i> | X | | | |
| <i>HotPot</i> | X | | | |
| <i>Participation</i> | X | | X | |
| <i>Questionnaire</i> | X | | | |
| <i>Surveys and predefined surveys</i> | | X | | |
| <i>Synchronous tests via videoconference</i> | X | X | X | X |
| <i>Task</i> | X | X | X | |
| <i>Videoconference</i> | X | X | X | |
| <i>Workshops</i> | X | X | X | X |

Method of assessment of attendance (Scenario B):

Attendance is the 45% of the final mark.

General clarifications on instruments for evaluation (Scenario B):

In relation to the previous table:

Document Analysis= Oral presentation

Portfolios= Attendance sheets

Clarifications on the methodology for part-time students and students with disabilities and special educational needs (Scenario B):

Subject will be adapted to each student necessity.

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