

ANIMAL PRODUCTION II

Study programme: MIMV **Curricular Year** 4th **Semester** 8th **Compulsory** **ECTS:** 4,5

Lecturers: Rui Caldeira (CCP, R), Rui Bessa, Fernando Afonso, José J. Alfaro Cardoso, J.J. Sousa Nunes

1. Contact hours: Lectures - 26, Lecture/Practical – 13, Fieldwork - 13

2. Objectives:

To provide the knowledge that allow a proficient utilization of the animal husbandry and production techniques and to design, manage and evaluate the production systems in the area of small ruminant, pig, poultry, rabbits and aquatic species production, always strengthening the importance of the economic and environmental sustainability, the welfare and the productive efficiency of animals and the quality of products.

3. Programme:

Small ruminant and pig production. World, European and Portuguese herds. Overview of European and Portuguese production, consumption and markets. Production traits of the local and foreign breeds reared in Portugal. Husbandry and production techniques. Housing. Production systems.

Poultry production. Overview of European and Portuguese production and market. Industrial poultry organization. Production traits of the breeds reared in Portugal. The physiology of egg production. Husbandry and production techniques. Housing. Systems of meat and eggs production.

Rabbit production. General and specific aspects of rabbit production. Meat and hair production systems.

Aquaculture. Overview of European and Portuguese production and market. Physiological characteristics of aquatic species reared for human consumption in Portugal. Biological cycles and production systems.

4. Bibliography:

Class handouts, lecture notes, scientific and technical papers.

Buxadé, C. (1996). *Zootecnia, Bases da Producción Animal*. Tomo VIII – *Producción ovina*; Tomo IX - *Producción caprina*; Tomo X – *Producciones cunícula y avícolas alternativas*; Tomo XIII – *Producción Animal Acuática*. Ediciones Mundi-Prensa, Madrid, Espanha.

Grandin, T. (2014). *Livestock Handling and Transport*. CAB INTERNATIONAL, New York.

ITP (1993). *Memento de l'éleveur de porc* (5^a ed.). Institut Technique du Porc, Paris.

Kyriazakis, I. & Whittemore, C.T. (2006). *Whittemore's science and practice of pig production*. Wiley-Blackwell, USA.

Leeson, S., Summers, J. D. (1997). *Commercial Poultry Nutrition*. University Books, Guelph,.

North, M. O., Bell. D. D. (1990). *Commercial Chicken Production Manual*. Chapman e Hall, USA.

Parker R. & Keillor, G. (2001). *The Sheep Book: A Handbook for the Modern Shepherd*. Swallow Press, USA.

Rose, S. P. (1997). *Principles of Poultry Science*. CAB International.

Webster, J. (ed.) (2011). *Management and welfare of farm animals*. UFAW Animal Welfare Series. Wiley-Blackwell.

5. Assessment:

The students' learning is evaluated with a written examination including theoretical and practical subjects at the end of the semester (80%) and a group work (20%).