

## HORSE PRODUCTION AND USE

**Study Programme:** MIMV      **Curricular Year:** 4<sup>th</sup>      **Semester:** 7<sup>th</sup>      **Optional**      **Credits:** 2,5 ECTS

**Lecturer(s):** Rui Caldeira (CCP), Maria João Fradinho (R), José Paulo Sales Luís, Graça Ferreira Dias, Ilda Rosa, Paula Tilley, Luísa Jorge.

### 1. Contact Hours:

**Lectures** – 20; **Lectures/Practical** – 2; **Fieldwork** - 6; **Total** – 28h

### 2. Objectives:

To provide the knowledge to understand the structure and organization of horse production, to plan horse production systems, to discuss husbandry techniques and to explain the different methodologies applied during horse development depending on its future use.

### 3. Programme:

Overview of horse production in Portugal.

Horse production systems.

Growth and development of foals.

Biomechanics and movement

Horse nutrition and feeding. Feed evaluation systems. Feeding behaviour. Feeding plans.

Horse breeding. Reproduction strategies on horse production.

Horse uses: aspects of horse behaviour and senses that outline its handling and training methodologies. Overview and concepts of equestrian activities and sports.

Husbandry of mares and foals, in particular on the most critical phases of the production cycle: last third of gestation, foaling, lactation, weaning and breaking.

General husbandry operations.

.

### 4. Bibliography:

Class handouts, lecture notes, scientific and technical papers.

Buxadé, C. (1997). *Zootecnia – Bases de Producción Animal*. Tomo XI - *Producciones equinas y de ganado de lía*. Ediciones Mundi-Prensa, Madrid, Espanha.

INRA. (2015). *Equine nutrition: INRA nutrient requirements, recommended allowances and feed tables*. (W. M. Rosset, Ed.) The Netherlands: Wageningen Academic Publishers.

Geor, R., Harris, P., Coenen, M. (2013). *Equine Applied and Clinical Nutrition*. Saunders Elsevier.

Institut d'Élevage, Institut du Cheval e Institut National de la Recherche Agronomique (1997). *Notation de l'état corporel des chevaux de selle e de sport. Guide pratique*.

Saastamoinen, M.T. and Martin-Rosset, W. (2008). *Nutrition of the exercising horse*. Wageningen Academic, EAAP Scientific Series no. 125.

Miraglia, N. and Martin-Rosset, W. (2006). *Nutrition and feeding of the broodmare*, EAAP publication No. 120.

Juliand, V. and Martin-Rosset, W. (2005). *The growing horse: nutrition and prevention of growth disorders*. J, Wageningen Academic EAAP Scientific Series no. 114.

### 5. Assessment:

Theoretical and practical subjects are evaluated with a written examination including short answer questions, multiple-choice questions, true and false and incomplete sentences.