

## PRODUCTION AND PATHOLOGY OF THE PIGEON

**Study Programme:** MIMV    **Curricular Year:** 4<sup>st</sup>    **Semester:** 8<sup>nd</sup>    **Optional**    **Credits:** 2.5 ECTS

**Lecturer(s):** Jorge Jesus Correia (CCP e R), Luís Madeira de Carvalho, Hugo Martins Pissarra

### 1. Contact hours:

Lectures – 11, Practicals – 15h, Evaluation – 2h, Total 28h.

### 2. Objectives:

To coach the students in the main models of pigeon production and training. Evaluation of genetic breeding programs and discussions of the interactions between the specificities of pigeon sport practice and disease incidence. To train the students on the clinical examination, necropsy technique and sample collection and its shipment to the laboratory for complementary diagnose.

### 3. Programme:

Theoretical Programme: Pigeon production systems. The pigeon and pigeon breeding in Portugal. Anatomy and physiology of the pigeon. Housing, management and competition. Feeding and reproduction. The genetic basis associated with pigeon selection. Diseases of bacterial, viral and parasitary etiology.

Practical Programme: Live “in-hand” pigeon observation. Clinical exam, blood collection and hematological exams. Sample collection for cytological, bacteriological and parasitological examination from live animals. Necropsy technique. Microscopical examination of slides with histological, histopathological and cytological samples.

### 4. Bibliography:

- Correia, J.J. (2013). *Coloração de esfregaços de sangue*. p 1
- Correia, J.J., Martins, A.C. & Martins, B.C (2013). *Consequências para a velocidade da progressão por ciclo alar*. p 1; *Perspetiva funcional da qualidade morfológica, ou standard, do pombo-correio*. p 1-11; *Plumagem do Pombo – Algumas especificidades*. p 1; *Técnica genérica do exame prévio à avaliação*. p 1-11; *Anatomia fisiologia e muda da pena*. p 1-2; *Orientação e condicionantes atmosféricos*. p 1-3.
- Hiatt, S. & Esposito, J. (2000). *The Pigeon Guide: Practical Breeding, Training, and Management*. Silvio Mattacchione.
- Kardong, K.V. (2006). *Vertebrates - Comparative Anatomy, Function, Evolution*. McGraw-Hill
- Liem, K. F. (2001). *Functional Anatomy of the Vertebrates, An Evolutionary Perspective*. Harcourt College.
- Marlier (2006). Viral infections in pigeons. *The Veterinary Journal*, 172: 40–51.
- Peleteiro, M.C. & Correia, J.J. (2013). *Técnica de necropsia de aves*. p 1-11.
- Pennyquick, C.J. (2008). *Modelling the flying bird*. Elsevier.

### 4. Assessment:

The students' knowledge is evaluated at the end of the term with a written examination including theoretical and practical subjects.