

## REPRODUCTION AND OBSTETRICS I

**Study Programme**    **MIMV Curricular Year: 4<sup>st</sup>**    **Semester: 7<sup>nd</sup>**    **Compulsory**    **Credits: 5 ECTS**

**Lecturer(s):** Luís Lopes da Costa (CCP), Luisa Mateus (R), Sandra Jesus, Ana Catarina Torres

### 1. Contact hours:

**Lectures - 26    Practicals - 39    Total 65**

**2. Objectives:** After completion of the discipline, students should be familiar with the basic knowledge and skills concerning the reproductive processes, the collection and assessment of semen, the methods of diagnosis of the stage of the oestrous cycle and of pregnancy and the diagnostics and therapy of reproductive diseases of companion and equine animals.

### 3. Programme:

Theoretical - CANINE AND FELINE: reproductive and oestrous cycle; breeding management; contraception and pregnancy termination; pregnancy, pregnancy diagnosis, pregnancy loss and abortion; parturition and care of the neonates; diseases of the puerperal period: retention of foetal membranes, sub-involution of placental sites, metabolic dysfunction, mastitis, agalactia and puerperal metritis; diseases of oestrous cycle: vaginites, endometrial hyperplasia/pyometra complex, hyperestrogenism; infertility/subfertility in the female and male; male pathology: balanopostitis, orchitis, testicular tumors, prostatic diseases.

EQUINE: reproductive cycle and factors of seasonal reproduction; breeding management and control of reproduction; artificial insemination and embryo transfer; diagnosis of pregnancy and problems of pregnancy; parturition, care of the neonate and dystocia; reproductive diseases and infertility in the mare; management of the stallion and reproductive problems of the stallion.

Practical - breeding soundness evaluation of the male dog; gynecological examination and technique of artificial insemination in the bitch; examination interpretation of vaginal smears and blood progesterone in the bitch; discussion of reproductive clinical cases in companion animals; physical evaluation, semen collection and evaluation in the horse; gynecological examination of the mare; cytology and uterine biopsy in the mare; semen processing, storage and manipulation.

### 4. Bibliography:

Ettinger, S., & Feldman, E. (2010). *Textbook of Veterinary Internal Medicine*. 7<sup>th</sup> Edição. Saunders Company. Vol 1 e 2. Capítulos 36, 122, 123, 297, 298, 299, 300, 301, 302, 302, 304, 305, 306, 307, 314, 332.

Youngquist, R.S., & Threlfall, W.R. (2007). *Current Therapy in Large Animal Theriogenology*. Saunders Elsevier (Section I – Equine Theriogenology).

### 4. Assessment:

The assessment of the theoretical component will be accomplished through a written examination of 2 hours including questions of short answers based on clinical cases. The practical component will be evaluated in practical examinations where students perform a practical test drawn from a set of tests previously announced and accomplished in practical classes. ≥9.5 out of 20 in any of them is required.