

## REPRODUCTION AND OBSTETRICS II

**Study programme: MIMV Curricular Year: 4<sup>th</sup> Semester: 8<sup>th</sup> Compulsory Credits: 5 ECTS**

**Lecturer(s):** Luís Lopes da Costa (CCP and R), Luísa Mateus, Ricardo Bexiga, George Stilwell, José Júlio Alfaro Cardoso, Ana Catarina Torres

### 1. Contact hours:

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

**2. Objectives:** To know how to perform the andrological, gynaecological and obstretical examinations. To know how to evaluate the reproductive performance of a herd and to design a reproductive management plan. In the context of production medicine, to know how to identify the critical points of the production system that impacts on fertility and, to design a prophylactic plan. To know how to diagnose pregnancy, to assist parturition and to treat the most frequent andrological, gynaecological and obstretical disorders of ruminants and swine.

### 3. Programme:

**Theoretical:** Cattle – Reproductive and oestrous cycle of the cow. Estrus detection and artificial insemination (AI). Disorders of the reproductive and oestrous cycle. Control and manipulation of oestrous cycle. Reproductive technologies. Pregnancy and its diagnosis. Pathology of pregnancy. Parturition and neonatology. Distocia and obstretical procedures. Puerperium and calving related diseases (CRD). Genital infections in the cow. Lactation, mastites and reproduction. Reproductive function and infertility in the bull. Reproductive management in beef cattle. Reproductive management in dairy cattle. Ovine and Caprine – reproductive function in the ram and boar. Reproductive cycle and oestrous cycle in the ewe and goat. Control of reproductive and oestrous cycles and reproductive technologies. pregnancy. Parturition, distocia and neonatology. Reproductive management of sheep and goat flocks under pasture. Reproductive management of intensive dairy flocks. Swine – reproductive physiology. Reproductive management. Infertility.

**Practical:** Observation of male and female genital tracts of ruminants and swine. Techniques of cow genital palpation, pregnancy diagnosis and cervical catheterization. Gynaecological examination of the cow and accessory examinations. Artificial insemination and management of seminal dosis. Tocology and fetotomy. Programs of control of calving associated diseases, udder health and reproductive management. Clinical cases. Evaluation of cattle reproductive performance and of oestrous cycle synchronization programs. Evaluation of fertility on sheep and goat flocks. Reproductive techniques in sheep and goats. Reproductive management in swine.

### 4. Bibliography:

- Policopied/digital material from theoretical classes and guides for practical classes.

Youngquist, R.S., & Threlfall, W.R. (2007). *Current Therapy in Large Animal Theriogenology*. Saunders Elsevier (Section II-V).

Noakes, D.E., Parkinson, T.J., & England, G.C.W. (2011). *Veterinary Reproduction and Obstetrics*. 9<sup>a</sup> edição. Saunders Elsevier.

### 5. Assessment:

Written test covering the theoretical contents. Oral questionnaire and practical execution. Attendance to the practical evaluation is conditioned to approval in the written test.

Rounded arithmetical mean of the written test and practical evaluation. Approval requires a minimum of 9.5 (scale 0-20), in both the written test and practical evaluation.