

## **PATHOLOGY AND CLINICS OF INFECTIOUS DISEASES II**

**Study Programme: MIMV    Curricular Year 4th    Semester 8th    Compulsory    Credits: 4.5 ECTS**

**Lecturers: F.Boinas (CCP & R), V.Almeida, J.Chagas Silva, S.Gil, T. Grosso e M. Joaquim**

**1. Contact hours: Lectures 26, Practical 26, Field 5, Isolation Unit 2 Total 59**

### **2. Objectives:**

Contribution for the student's education on Animal Health particularly related to basic concepts and general methodologies used on the characterisation and control of infectious diseases specific of cattle and small ruminants, horses, swine, poultry and rabbits, relevant for Public Health, animal health and productivity as well as animal welfare.

### **3. Programme:**

**THEORETICAL - RUMINANTS:** Mastitis, Transmissible Spongiform Encephalopathies (BSE and Scapie), Enzootic Bovine Leukosis, Infectious Bovine Rinotracheitis, Bovine Viral Diarrhoea, Paratuberculosis, Bluetongue, Footrot, Contagious Agalaxia, Chlamydiosis, Lentiviruses (Maedi-Visna, CAE) Border Disease and Orf.

**HORSES:** Infectious Anaemia, Strangles and Viral Rhinopneumonitis.

**SWINE:** Erysipelas, Atrophic Rhinitis. Enzootic Pneumonia, Swine Influenza, Aujeszky Disease, Parvovirus, PRRS, Circovirus, Swine Ileitis and African swine fever.

**POULTRY:** Avian Influenza, Newcastle Disease, Infectious Bursal Disease, Marek Disease, Infectious Bronchitis, Infectious Laryngotracheitis, Avian Mycoplasmosis and Avian Metapneumovirus.

**RABBITS:** Mixomatosis and Viral Haemorrhagic Disease

**PRACTICAL - LABORATORY CLASSES:** Mastitis (cow side tests, laboratory diagnostic and therapeutics). Model of viral diagnosis (Aujeszky Disease and African swine fever).

**CASE STUDIES:** Interpretation of the results of the Laboratory Diagnostic of Mycobacteria, Lesions associated with Avian Infectious Diseases, Case studies with Fowlpox and Poultry Enteritis and Mortality Syndrome (PEMS) and Aspergillosis, Avian Influenza and Newcastle Disease, Lesions associated with Pig Infectious Diseases, Differential clinical diagnostic of swine infectious diseases, Aujeszky Disease Eradication Programme, BSE and Scrapie eradication programmes and Medical Prophylaxis in Equids.

**FIELD ACTIVITIES:** Accompanying veterinary field teams from Producer's Organizations - OPP /ADS

**INFECTIOUS DISEASES ISOLATION UNIT:** Clinical practice in infectious patients

### **4. Bibliography:**

Documents produced by the lecturers and made available to the students at the [Moodle Platform](#)

#### Books:

Veterinary Medicine: A textbook of the Diseases of Cattle, Horses, Sheep, Pigs and Goats (2016). 11th Edition. Constable, P.D. et al. (Eds). Saunders Elsevier.

The Merck Veterinary Manual (2016). 11a Ed. S.E. Aiello and M.A. Moses (Eds.). Wiley

Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (2018). 8th Ed. OIE – World Organization for Animal Health

Bovine Medicine (2015). 3rd Ed. Cockcroft, P. (Ed). Wiley-Blackwell.

Diseases of Poultry (2020) 12nd Ed. Swaine D.E. (Ed.). Wiley-Blackwell,

Diseases of Swine (2019) 11th Ed. Zimmelman J.J. et al. (Eds). Wiley-Blackwell

Equine Infectious Diseases (2013), D.C. Sellon & M. Long (Eds). Elsevier Saunders

Certified [Web Sources](#)

### **5. Assessment:**

Theoretical course: 1 written exam. Students are evaluated for practical course by an oral exam. The final mark is the weighed mean of both exams: theoretical exam mark (70%) and practical exam mark (30%).