

PATHOLOGY AND CLINICS OF INFECTIOUS DISEASES II

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

Lecturers: C. Martins (CCP), F. Boinas (R), V. Almeida, J. Chagas Silva, S. Gil, José Júlio Alfaro Cardoso e José João Sousa Nunes

1. Contact hours: Lectures 26, Practical 26, Field 5, Total 57

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 - CATTLE: Mastitis, Bovine Spongiform Encephalopathy, Enzootic Bovine Leukosis, Infectious Bovine Rhinotracheitis, Bovine Viral Diarrhoea and Paratuberculosis.

SMALL RUMINANTS: Bluetongue, Footrot, Contagious Agalaxia, Chlamydiosis, Maedi-Visna, Scrapie, Border Disease, CAE, Orf and Schmallenberg Disease.

HORSES: Infectious Anaemia, Strangles and Viral Rhinopneumonitis.

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

POULTRY: Avian Influenza, Newcastle Disease. Infectious Bursal Disease, Marek Disease. Infectious Bronchitis. 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: Molecular Diagnostic of Infectious Diseases, 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, 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

4. Bibliography:

Coetzer, J.A.W. & Tustin, R.C. (Ed.) (2004). *Infectious Diseases of Livestock*. Vol I, Vol II, Oxford University Press.

Kahn, C. (Editor) (2010). *The Merck Veterinary Manual*. 10th Ed. Merck & CO, Inc.

Okerman L. (1994). *Diseases of domestic rabbits*, Blackwell Scientific Publications.

Pugh, D.G & Baird, N. (2011). *Sheep and Goat Medicine*, 2nd Ed., Elsevier.

Radostits, O.M., Gay, C.C., Diplomate, H., Hinchcliff, K.W. & Constable, P.D. (2007). *Veterinary Medicine*. Saunders-Elsevier.

Sellon, D. C. & Long, M. (2013). *Equine Infectious Diseases*. 2nd Ed., Elsevier.

Swayne, D.E. (Editor) (2013). *Diseases of Poultry*, 13th Ed., Wiley-Blackwell,

Zimmerman, J.J., Karriker, L.A., Ramirez, A., Schwartz, K.J. & Stevenson, G.W. (Editors) (2012). *Diseases of swine*. 10th Ed., Wiley-Blackwell.

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%).