

# PATHOLOGY AND CLINICS OF INFECTIOUS DISEASES I

**Code: 90042** Curricular Year 4<sup>th</sup> Semester 7<sup>th</sup> Compulsory Credits: 4.5 ECTS

**Lecturer(s):** Profs. Drs. Carlos Martins, Virgílio Almeida, Fernando Boinas, Solange Gil e João Nestor

## 1. Contact hours:

Lectures 26    Practicals 33    Total 59

## 2. Objectives:

Contribution for the student's education on Animal Health related to the concepts and general methodologies used on the characterisation and control of infectious diseases (ID) relevant for Public Health (One Health concept), livestock production and animal welfare, affecting a broad range of hosts, dogs and cats.

## 3. Programme:

### Theoretical:

ID affecting a broad range of hosts: Rabies. Foot-and-Mouth Disease. Tuberculosis. Brucellosis. Salmonellosis. Pasteurellosis. Colibacillosis. Leptospirosis. Listeriosis. Enterotoxemia. Clostridiosis. Ringworm. Malasseziosis.

ID Dogs: Distemper. Parvovirus. Infectious Hepatitis. Kennel Cough. Canine Herpesvirus. Lyme Disease.

ID Cats: Feline Herpesvirus. Feline Calicivirus. FeLV. FIV. Feline Infectious Peritonitis.

### Practicals:

Laboratory classes: Serological diagnosis of Brucellosis. Bacteriological and serological diagnosis of Enterobacteria. Clostridiosis (bacteriological diagnosis). Ringworm and malasseziosis (mycological diagnosis). ELISA kits (canine parvovirus and distemper). ELISA commercial kits (feline FeLV and FIV).

Case studies: Tuberculin testing. Rabies legislation.

Problem-based learning: Dog & cat vaccination calendars.

On farm classes: 1 session of 4 hours in groups of 6 students.

ID Isolation Unit: 1 session of 3 hours in groups of 4 students.

## 4. Bibliography:

Coetzer, J.A.W., Thomson, G.R. and Tustin, R.C. (Editors), *Diseases of Livestock*, Vol I, Vol II, Oxford University Press, 1994.

Fraser C.M. *et al*, *The Merck Veterinary Manual*. Merck & CO., Inc., 11<sup>th</sup> edition, New Jersey, 2016.

Gormon N. T. (Editor), *Canine medicine and therapeutics*, British Small Animal Veterinary Association, Blackwell Science, 4<sup>th</sup> edition, London, 1998.

Chandler E.A. *et al*, *Feline medicine and therapeutics*, British Small Animal Veterinary Association, Blackwell Science, 3<sup>rd</sup> edition, London, 2004.

*Infectious diseases of the dog and cat*. Greene C. 4<sup>th</sup>. Ed., W.B. Saunders, 2011.

Radostitis O.M., Gay C.C., Blood D.C. Hinchcliff K.W., *Veterinary Medicine*, W.B.Saunders, Harcourt Publishers Ltd, 10<sup>th</sup> Edition, 2006.

## 5. Assessment:

Theoretical course: 1 written exam. Minimal mark is 10 out of 20.

Practical course: 1 final oral exam. Minimal mark is 10 out of 20.

The final mark is the weighed mean of both exams: theoretical exam mark (70%), practical exam mark (30%).