

HISTOLOGY I

Study Programme: MIMV Curricular Year: 1st Semester: 1st Compulsory Credits: 4,5 ECTS

Lecturers: Fernando Garcia e Costa (CCP), Mário António Soares de Pinho (R) e José Manuel Ferreira da Silva.

1. Contact hours:

Lectures - 28 hours. Practicals – 28 hours. Total: 56 hours

2. Objectives:

To acquire knowledge on the techniques for preparation of biological material for the microscopic study of cells and tissues. Get skilled in the use of the light microscope. Theoretical and practical learning of microscopic structure of animal tissues and its relationship with function with particular emphasis on the four basic tissues and lymphoid system.

3. Programme:

Introduction to histology. Methods of study of histology. Study of the microscopic structure and function of the epithelium, connective tissue, muscle and nervous tissue. Study of the structure and function of the immune system and lymphoid organs.

4. Bibliography:

Junqueira, L. C. & Carneiro, J. (2013). *Histologia Básica*, 12^a ed., Guanabara Koogan, Rio de Janeiro.

Azevedo, C. (Coord). (2012). *Biologia Celular e Molecular*, 5^a Ed., Lidel, Edições Técnicas, Lisboa.

Banks, W. J. (1993). *Applied Veterinary Histology*, 3th ed. St. Louis, Mosby Year Book.

Eurell, J.A. & Frappier, B.L. (2006). *Dellmann's Textbook of Veterinary Histology*, 6th ed., Blackwell Publishing.

5. Assessment:

Students are assessed in a final examination that includes a laboratory work (diagnosis of histological sections) and a theoretical test. The final mark is the result of the weighed average of the laboratory mark (40%) and theoretical test (60%). The students' knowledge is evaluated at the end of the term.