

## HISTOLOGY I

Study Programme: MIMV Curricular Year: 1<sup>st</sup> Semester: 1<sup>st</sup> Compulsory Credits: 4,5 ECTS

Lecturers: Mário António Soares de Pinho (CCP and 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 in 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:

Abrahamsohn, P. (Coord.). *Histologia Básica, Texto e Atlas, Junqueira & Carneiro*, 13th ed., Guanabara Koogan, Rio de Janeiro, 2017.

Azevedo, C. (Coord.). *Biologia Celular e Molecular*, 5th ed. Lidel, Lisboa, 2012.

Young, B. O'Dowd G. & Woodford P. *Functional Histology. A text and colour atlas*, 6th ed. Elsevier, Churchill Livingstone, London, 2013.

Ferreira da Silva, J. & Pinho, M. *Guia Ilustrado para as Aulas Práticas de Histologia II*. Lisboa, 2021.

### 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.