

MEDBIOT-02: TISSUE TYPES	
GENERAL INFORMATION	
Course Coordinator(s)	Nikola Bijelić, PhD, Assist. Prof.
Associate(s)	Edi Rođak, MSc
Study Programme	Interdisciplinary Graduate Study Programme in English: Biotechnology
Course Status	Elective
Year of Study, Semester	2 nd Year / 4 th Semester
Credits (ECTS)	4
Teaching Method (number of classes)	Lectures: 15; Seminars: 10; Exercises: 15
Expected Number of Students in the Course	25-30
COURSE DESCRIPTION	
Course Aims	
The objective of this course is to train students in recognizing basic tissue types and their morphological properties using light microscopy.	
Prerequisites for Enrolment and the Entry Competencies Required for the Course	
Completed and passed courses from 1 st year of this study.	
Learning Outcomes at the Programme Level Contributed by the Course	
BIOTECH-2; BIOTECH-3	
Learning Outcomes at the Course Level	
After completing the course, the student will be able to:	
<ol style="list-style-type: none"> 1. Present morphological properties of basic tissue types 2. Independently sort subtypes of tissue into four main types 3. Associate morphological properties of basic tissue types with their function 4. Demonstrate knowledge of key elements of specific tissue types using light microscopy 5. Make a drawing of the structure of tissue observed under a light microscope and mark key structures on his/her drawing 	
Course Content	
Lectures: Cells and extracellular matrix. Epithelial tissue. Connective tissue. Muscle tissue. Nervous tissue. Selected chapters from special histology.	
Seminars: Main tissue types, their structure and function in different organs and organ systems. Review of the material.	
Exercises: Lining and glandular epithelium. Proper connective tissue, supportive connective tissues. Skeletal, cardiac and smooth muscle tissue. Nervous tissue of central and peripheral nervous system. Selected examples from special histology.	
Teaching Methods	
Lectures; seminars; laboratory exercises	
Students' Obligations	
Attendance at all forms of classes is mandatory and the students are obligated to attend all knowledge tests. The students may be absent from 30% (full-time students) and 50% (part-time students) of each of the forms of classes, provided that the absence is justified. An exercise or a seminar which has not been completed must be made up through a midterm exam.	
Monitoring the Activity of the Students (<i>Connecting Learning Outcomes, Teaching Methods, and Grading</i>)	

Class-related activity	ECTS	Learning outcome	Student activity	Evaluation method	Grade points	
					Min.	Max.
Attending classes	0.2	1-5	Attendance	Keeping records	2	5
Seminars	0.6	1-5	Seminar drafting and presentation	Seminar presentation	7	15
Laboratory exercises	0.8	4, 5	Practical exercises	Laboratory exercises	10	20
Final exam	2.4	1-5	Studying for the final exam	Written exam	30	50
Total	4				50	100

Evaluation of the written part of the final exam:

Percentage of correct answers (%)	Grade
>95.00	50
90.00-94.99	47
85.00-89.99	45
80.00-84.99	40
75.00-79.99	38
70.00-74.99	35
65.00-69.99	33
60.00-64.99	30

Forming the final grade:

The points granted for the final exam are added to the grade points awarded during class attendance. The grading process is conducted by absolute distribution, i.e. based on total achievements, and compared to the numerical system in the following manner:

A – Excellent (5): 90-100 grade points; B – Very Good (4): 80-89.99 grade points; C – Good (3): 65-79.99 grade points; D – sufficient (2): 50-64.99 grade points

Mandatory Literature (available in the library and via other media)

Title	Number of copies in the library	Availability via other media
Mescher A.: Junqueira's Basic Histology: Text and Atlas. 15 th Ed., McGraw-Hill, 2018.		

Additional Literature

1. Eroschenko V.P.: DiFiore's Atlas of Histology: with Functional Correlations. 12th Ed., 2013 Lippincot Williams & Wilkins. ISBN-13: 978-1451113419
2. Scientific and professional papers related to certain chapters (available on-line).

Quality Assurance Procedures Designed to Ensure the Acquisition of Outcomes and Competencies

Anonymous, quantitative, standardized student survey on the course and the teacher's work implemented by the Quality improvement office of the Faculty of Medicine Osijek and/or the Faculty of Food Technology Osijek.

Note

E-learning is not included in the class quota, but it is used in teaching and it contains links to various sites and video and audio materials available on websites.