



Course Regimen

Course: Histology and embryology

Study Programme:

Medicine Medicine

Course Year: 1 2 3 4 5 6

Semester:

Winter **Summer**

Course type:

Compulsory Elective

Number of ECTS credits: **10 ECTS**

Lecturer(s): **Professor Danijel Petrovič, MD, PhD**

Participating Organisational Units (Departments and Institutes): Institute of Histology and Embryology

Parts (Modules) of the Course

- 1:
- 2:
- 3:
- 4:

Date of Issue: 15 September 2021

A. General part

1. Course objectives

The Histology and Embryology course is run over two semesters of the second academic year. During the third semester, the focus is on general and specialised histology. Histology will be presented from a functional point of view, with a particular emphasis on normal histology.

During the fourth semester the focus is on different areas of human development: developmental disorders associated with genetic conditions that lead to the most common syndromes, and the influence of different factors (genetic causes, environmental factors and teratogenic factors) on the development of the embryo (clinically oriented embryology). Important topics of functional histology for specific organs or organ systems will be discussed in detail during seminars.

Lectures and practical tutorials will be held in Slovenian, while medical terminology will include Latin terms.

2. Comprehensive outline of the course

The course consists of **lectures, seminars, practical tutorials** and **colloquia**.

Participation of students in all practical tutorials is mandatory. In case of absence, an absence report must be provided.

Practical tutorials will take place at the Institute of Histology and Embryology. If the organization of practical tutorials at the Institute of Histology and embryology will not be possible - due to epidemiological or other unpredictable conditions (such as construction work on the Korytkova campus) - practical tutorials will employ e-learning platforms. Practical tutorials will take place according to the schedule. We will inform you about the method of implementation promptly via the online classroom.

At the beginning of **practical tutorials**, each student must inspect both boxes with tissue slides that are on the desks. Any incident (if the tissue slide is missing or the microscope does not work properly) should be immediately reported to Assistant Technicians. Students will be charged for tissue slide or microscope damage caused by negligence according to the valid pricelist. Practical tutorials at the Institute of Histology and Embryology will be conducted following the safety recommendations of the NIJZ.

Students must come to practical tutorials prepared. A student who exhibits inappropriate behaviour may be required to leave the class. Such students are then required to make an appointment with one of the course faculty and show their knowledge of the topic discussed.

Beside mandatory practical tutorial, students will be able to attend **elective practical tutorials** as well. Elective practical tutorials (i.e. microscopy workshops) will be organized according to the timetable. The rules above also apply to elective microscopy workshops.

3. Description of on-going assessment of knowledge and skills

Students will prepare **seminar papers** in the winter semester of the academic year 2021/2022. The topics and detailed instructions for the preparation of seminar papers will be announced during the course lectures in February 2022. The maximum number of students per seminar group is eight. All students in the group must be prepared for the seminar and be able to reply to questions asked. The ability of the student to answer the questions is a condition for the seminar to be completed. The seminar is evaluated with a pass/ did not pass.

Two colloquia will be held for medical students. The attendance at both colloquia (mid-term exams held in the fourth semester) is mandatory. The written colloquium consists of 30 multiple-choice questions and up to 10 images of different tissue slides:

1st colloquium: general histology

2nd colloquium: special histology and embryology.

Successfully passed colloquia are mandatory before taking the final exam. A student passes the colloquia if he/she achieves a total of **36 points or more** (60% or more). If he/she achieves **48 points or more** (80% or more) in the colloquia, the student is exempted from taking the written exam. The student is exempted from taking the written exam only on the first taking of the final exam.

4. Conditions for the final examination (Exam on the subject)

In order to apply for the final examination (course exam) students **must attend all practical tutorials, the oral presentations of selected seminar papers and both written colloquia. An official absence report is mandatory for any absence from the compulsory part of the course curriculum (practical tutorials, oral presentation of seminar paper, colloquia).**

Anyone who **fails to pass** written colloquia (achieves less than 36 points) must pass a **pre-exam colloquium** before the final exam. Pre-exam colloquium covers the material of all the practical tutorials and lectures. Anyone who fails to pass written colloquia or a pre-exam colloquium, cannot apply for the final exam.

5. Final exam and examination of knowledge and skills (Course Exam)

5.1. Exam tests include a theoretical part (30 multiple-choice questions) and visual material (recognizing 30 histological structures of organs and tissues). There are no negative points in the exam.

The student's final grade of the exam consists of the points achieved in the written part of the exam accordingly:

Points	Grade
55.00–60.00	excellent (10)
50.00–54.99	very good (9)
45.00–49.99	very good (8)
40.00–44.99	good (7)
36.00–39.99	adequate (6)
0.00–35.99	inadequate (5)

5.2 A student who passes the written exam (achieves 36 points or more) must also pass the oral exam. The student receives the final grade of the exam after taking the oral part of the exam.

5.3 Positive grade in the written exam is mandatory for taking the oral exam, except when the student did not pass the written exam (achieved 36 points or more) for the third time.

5.4 When a student is taking the final exam for the fourth or fifth time, the oral examination is conducted before the Examining Board.

5.5 Students register for the inspection of written colloquia/exams via e-mail (ihe@mf.uni-lj.si) within seven days after the colloquium/exam. Registered students will be notified by e-mail about the date of the visit. Written colloquia/exams are available for inspection only after the oral exams have been finalized.

Questions regarding classes and exams should be addressed to ihe@mf.uni-lj.si.

6. Other provisions

7. Fundamental study material and Supplement reading

D. Petrovic, M. Zorc: Histology; Textbook, Ljubljana 2012.

M.Zorc, R.Zorc-Pleskovič, A.Milutinović-Živin: Histology and Embryology; Instructions for practical tutorials; Ljubljana 2010 Ljubljana 2014

D. Petrovic, M. Zorc, R. Zorc-Pleskovic, A-Milutinovich-Zivin: Embryology; Ljubljana 2012.

Antony L.Mescher: Junqueira's Basic Histology; The McGraw-Hill Companies, 2021; 16th edition.

Lectures.

Lecture notes uploaded to Spletna učilnica MF (e-classroom).

8. Exam topics, clinical presentations and skills

[Link to clinical presentations and skills](#)

9. Other information

Questions concerning the course may be discussed individually by making an appointment with one of the course faculty.

The office hours of the Student affairs office at the Institute of Histology and Embryology are every weekday from 9 am to 10 am.

The Course description apply for the academic year 2021/2022 only.