Komisija za študijske zadeve
UL Medicinske fakultete

Univerza v Ljubljani
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Course Regime

Course: Histology and embryology

Study Programme:
Medicine **Dental Medicine**

Year of the Course: 1 **2** 3 4 5 6

Semester:
Winter **Summer**

Course type:
Compulsory Elective

Number of ECTS credits: **8 ECTS**

Lecturer(s): **Professor Ruda Zorc Pleskovič, DMD, 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 2019

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 and practical tutorials with examinations of tissue slides under the microscope**. Participation of students in all practical tutorials is mandatory.** In case of absence, an absence report must be provided. Before 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.

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 seminars in the winter semester of the academic year 2019/2020. The topics and detailed instructions for preparation of seminars will be announced during the course lectures in October 2019. The maximum number of students per seminar group is four.

Three colloquia will be held for medical students. The attendance at all three 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: all questions on general histology.
2nd colloquium: 1/3 of questions on general histology and 2/3 of questions on special histology.

3rd colloquium: 1/3 of questions on special histology and 2/3 of questions on embryology.

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 all written colloquia.

Anyone who **fails to pass** written colloquia (achieves less than 53 points) must pass a **pre-exam colloquium** before the main course exam. Anyone who fails to pass written colloquia or a pre-exam colloquium, cannot apply for the main exam.

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

5.1. The exam includes a theoretical (30 multiple-choice questions) and a practical part (recognizing histological structures of organs and tissues from 30 microscope slides). There is no negative scoring in the exam.

5.2. The final grade of the exam very good (8) or more is obtained when a student achieves 45 points in total or more and achieves 18.0 points or more at both the practical and the theoretical part of the exam. If student achieves less than 45 points in total, the student is required to take an oral exam as explained in criteria below (point 5.4.).

The student's final grade of the exam consists of the points achieved in the theoretical and practical 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)
36.00–44.99	oral examination (point 5.4.)
0.00–35.99	inadequate (5)

5.3. If a student disagrees with the obtained final grade, he/she may apply at the Student affairs office at the Institute of Histology and Embryology (in person, by phone: 01 543 7360, or by email: ihe@mf.uni-lj.si) for an oral examination to improve his/her grade. All information about courses, practical tutorials and exams are available on the official Institute's website and at the Student affairs office at the Institute of Histology and Embryology.

5.4. Students **are required to take an oral exam** if:

5.4.1. They achieve from 36 to 44.99 points;
5.4.2. They achieve 36 points or more in total (60% in the theoretical and practical part together), but 18 points or less (60%) either in the theoretical or practical part;

5.4.3. They are taking the exam for the third time and did not achieve more than 45 points in total and/or achieved less than 18 points (60%) either in the theoretical or practical part;
5.4.4. They are taking the exam for the fourth or fifth time (if they achieved less than 45 points in total and/or achieves less than 18 points (60%) either in the theoretical or practical part). The oral examination is done before the Examining Board.

5.4.5. The colloquia are passed if a student achieves at least 54 points out of a maximum of 90 points (60%). If a student achieves from 54 to 71 points out of a maximum of 90 points (60–79.99%), the student gets 1 bonus point, whereas a student who achieves from 72 to 90 points out of a maximum of 90 points (more than 80%) gets 2 bonus points that will be added to the points of the main course exam.
5.4.6. Bonus points achieved with colloquia are added to the score of the main exam following the first sitting of the exam. Students must achieve more than 18 points in both the theoretical and practical part of the main course exam to acquire the points.

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, 2018; 15th edition.
Lectures.
Lecture notes uploaded to Spletna učilnica MF (e-classroom).

8. Exam topics, clinical presentations and skills

Additional file

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 2019/2020 only.