

REGULATIONS OF PRACTICES, LECTURES AND SEMINARS
COURSE OF HISTOLOGY, CYTOLOGY AND EMBRYOLOGY FOR THE STUDENTS OF THE 5DDS
PROGRAM 2020/2021

COURSE REGULATIONS

1. The course will continue for two semesters, from October 1st 2020 to May 28th, 2021 (30 lectures, 60 practices and 10 seminars, 100 hours in total), according to schedule.
2. The course is conducted in the form of online classes, during which the Teacher Assistant (TA) connects with the student using the appropriate dedicated tools. The tool designed for this purpose is the **Microsoft Teams application** and each student is obliged to use it during the course in order to conduct lectures, laboratories (exercises) and seminars. **Recording online lectures, laboratories or seminars is strictly forbidden.** Any recording attempts are automatically saved in the MSTEams application, including the recorder's data.
3. The program is realized as the **mandatory** lectures, laboratories and seminars. The program of lectures is intercalated with the program of laboratories and seminars. The subjects considered within lectures continue to be discussed during laboratories and seminars, and acquiring of the knowledge by the students is verified jointly. Students are expected to prove their preliminary preparation during the classes.
4. The aim of the laboratories is to become acquainted in practice with the structural organization of the cell, tissues and organs, structure of cell organelles, functional aspects of the structures, interaction of cells and organelles including the mechanisms of their control. Practically students will analyze the pictures of histological preparations, micrographs, schemes, diagrams.
5. The student's task is to get acquainted with the structure of tissues or organs presented during the laboratories. The student is obliged to solve the tasks assigned by the teacher during each laboratories. The tasks are prepared as an individual PDF file for each student (so-called "task card" or "worksheets"). The task card can contain diagrams and pictures of histological preparations, which the student is obliged to recognize and characterize. The student is obliged to fill the worksheet and return it to the teacher for acceptance within a specified time during each laboratories. Each task card has to be approved by a teacher assistant. The recommended tool for completing the task cards is the free Foxit Reader program or any other program that allows to edit PDF files.
6. Each part of the course, is to be passed on the basis of **partial verification in a test form**. Each from 5 quizzes comprises of a 40 questions. Correct answer for one question gives 1 point. During the whole course, the student can gather from 0 to 200 points. The form of the partial and final tests is a "one answer test". All quizzes are performed only once for the whole group of students. **There is no possibility of an individual taking of these quizzes out of the accepted term.**
7. To get a credit student has to collect **120 points (60%)** during whole course. If doesn't - then he/she must to pass the integrated test which can be repeated only once.

8. Skills in practice will be a subject of the practical test before the Final exam and will involve recognizing structures in a number of histological preparations presenting tissues and organs and proving a level of familiarity with the rules of histological techniques and methods.
9. To be admitted to a practical examination the student is obligated to:
 - have at least 120 points
 - have the task cards with Teacher Assistant's approval (18 in total)
10. The practical verification will be held in a test form including 30 questions. Each question will be followed by a picture of the histological structure, tissue or organ. The student is required to recognize the histological structures, tissues and organs presented in the questions, name them and define their structure and function. To pass the practical test, a student must obtain at least **18 points (60%)**. The practical test can be repeated twice only.
11. To be admitted to a Final examination the student is obligated to:
 - have at least 120 points
 - have the task cards with Teacher Assistant's approval (18 in total)
 - pass the practical test
12. The Final Exam comprises of a **50 questions**. The final examination is provided in the test form. **The threshold** for receiving final credit is **60%**.
13. The Final exam can be repeated twice only.
14. All of the partial quizzes, as well as practical test and integrative test and their retakes, will be conducted on OpenOLAT platform or/and Google Forms application or/and in the lab room of Histology&Embryology Department of PUMS. The conditions for carrying out the tests are regulated by an appropriate Rector's decree.
15. The provisions of the course regulation may be changed according to the Rector's decrees.

IMPORTANT DATES

QUIZ 1 – 22.10.2020

Cytology, cell nucleus, embryology.

QUIZ 2 – 26.11.2020

General histology – epithelial, connective, bone, muscle, nerve tissues.

QUIZ 3 – 07.01.2021

Blood, cardiovascular, lymphatic, endocrine systems.

QUIZ 4 – 26.02.2021

Respiratory system, skin, digestive system.

QUIZ 5 – 09.04.2021

Urinary, male reproductive, female reproductive, central nervous systems, histological techniques.

INTEGRATIVE – 16.04.2021

1ST INTEGRATIVE RETAKE – 23.04.2021

PRACTICAL TEST – 30.04.2021

1ST PRACTICAL RETAKE – 07.05.2021

2ND PRACTICAL RETAKE – 14.05.2021

FINAL EXAM – 21.05.2021

1ST FINAL RETAKE – 28.05.2021

2ND FINAL RETAKE - ????

REQUIRED TEXTBOOKS:

L. C. Junqueira, J. Carneiro: Basic Histology

T. W. Sadler: Langman's MEDICAL EMBRYOLOGY, 9th edition, LW & W, 2004 or newer

L. Kierszenbaum, L. Tres: Histology and Cell Biology: An Introduction to Pathology

Sobotta/Hammersen: Histology, A Color Atlas of Cytology, Histology and Microscopic Anatomy

Victor P. Eroschenko: di Fiore's Atlas of Histology with Functional Correlations

L. P. Gartner, J. L. Hiatt: Color Textbook of Histology

RECOMMENDED TEXTBOOKS:

B. Alberts et al.: Molecular Biology of the Cell

S. R. Goodman: Medical Cell Biology

A. Stevens, J. S. Lowe: Human Histology