

# BIOPHYSICS PRACTICAL

## Dentistry

### Division of Biophysics

Subject: BIOPHYSICS PRACTICAL

Year, Semester: 1st year/1st semester

Number of teaching hours:

Practical: 16

### Requirements

Department: Department of Biophysics and Cell Biology, Division of Biophysics

Semester recommended for taking the subject: 1st year, 1st semester

Semester for the regular course: 1st

Prerequisites of the course: No prerequisites

Course coordinator: Dr. Andrea Dóczy-Bodnár

Coordinator of Practicals: Dr. Zsolt Fazekas

Educational manager: Dr. Enikő Nizsalóczki (e-mail: biophysedu@med.unideb.hu)

1. Aims of the course: Demonstration of some of the methods discussed in the Biophysics theoretical course, performing some simple experiments relevant to these topics, and introduction to designing, performing and evaluating experiments.

2. Structure of the course:

- Introduction to the practicals
- Completion of labs

3. Compulsory reading: material posted on the eLearning page of the course.

4. Recommended reading:

-Medical Biophysics (3rd edition, Editors: S. Damjanovich, J. Fidy, J. Szöllősi, Medicina, Budapest, 2019, ISBN: 978-963-226-127-0)

-Biophysics laboratory manual

5. Educational website: biophys.med.unideb.hu and the eLearning page of the course (on <https://elearning.med.unideb.hu/>).

6. Evaluation: Practical grades on a five-point scale.

7. Requirements:

7/1. Attendance to labs and recording all results in a separate logbook are compulsory. Students may attend the practicals according to their group assignment only. Students write a short quiz before each lab topic. The quiz is composed of true/false, multiple choice and simple calculation problems. At least 2.5 of 5 points (Quiz Grade, QG) must be earned in this test in order to be eligible for doing the lab. Ineligible students are not allowed to attend the given lab according to their timetable. The lab will be considered as a missed one, and the student must make it up (after passing the test) according to 7/4.

7/2. Evaluation of labs: At the end of each lab the teacher grades the performance of the student on a scale between 0-5 (lab grade, LG). Getting 0 means that the lab is not accepted and it has to be repeated. Details of how to write lab logbooks and of the evaluation system can be found on the eLearning page of the course.

7/3. Determination of the end-semester practical grade (PG): Students will be graded on a five-point scale based on the score of the written quizzes (QG) and the lab grades (LG). At the end of the semester both the scores of the written quizzes and those of the lab grades will be summed and averaged. The final practical grade will be determined as follows:

QG_average+LG_average	End-semester practical grade (PG)
4.00-5.49	pass (2)
5.50-6.99	satisfactory (3)
7.00-8.49	good (4)
8.50-10.00	excellent (5)

Students, who completed all the labs (i.e. LG>0 for all labs) but their QG\_average+LG\_average score is not enough (i.e. less than 4.0) to pass should take a lab exam on the 14th week. The lab exam covers the materials of all labs and evaluated on a pass-fail basis (so students passing the lab exam will finish the course with PG=2, otherwise fail). It is not possible to repeat or improve the practical exam.

If the labs are not fully completed by the end of week 13 (i.e. during the regular and spare labs), the signature for the course is denied. If the course is not completed successfully (denied signature or failed lab exam) the signature for the Biophysics Lecture course is denied as well.

7/4. Making up missed labs: Maximum two labs (missed for any reasons) can be made up during the week assigned to spare practicals. Students must register for the make-up labs on the eLearning page of the course. Only one occasion will be available for making up a certain lab. A given lab can be repeated/made up only once.

#### 8. Information for repeaters:

8/1. Repeaters should attend and must complete all the labs. Points 7/1 – 7/4 apply to repeaters completely.

8/2. The following special rules apply to those repeater students who took the unified (theory+practicals) biophysics course before the academic year of 2018/19.

-These students have to be registered for the biophysics courses (lecture, seminar, practice) with the "old" code (AOBIF02T1) by the Educational Office.

-Students who completed all the labs and passed the lab exam will receive exemption from repeating them upon request. Such exemption requests have to be submitted online through the eLearning page of the course by the end of week 2.

-Students with incomplete labs or failed lab exam must attend and complete all labs during the semester. Points 7/1 – 7/4 apply completely for the completion and evaluation of the labs, with the exception that students completed the labs successfully will get a signature only (required for taking the theoretical part of Biophysics Final Exam).

9. Exam course: No exam course is available.

Further information is available on the web page of the Department of Biophysics and Cell Biology ([biophys.med.unideb.hu](http://biophys.med.unideb.hu)) and on the e-Learnig page of the course. The above information is subject to change if unforeseen circumstances arise. These changes will be posted on the website.