

Planning an evaluation system of the course "Optical Methods in Biology and Medicine"

Getting started with the course begins with an entrance control, the purpose of which is to determine the level of basic knowledge. Based on the results of the entrance control, the course is adjusted.

The course consists of 3 modules. To complete the module, you must complete all the required tasks.

For admission to the exam you need:

- Perform 6 laboratory works;
- Pass all tests;
- Collect at least 33 points during the semester.

Points in the semester are recruited both as a result of the performance of control works, defending of laboratory works and working on the forums.

Performing laboratory work is preceded by obtaining admittance from the teacher. The admission procedure consists of answers to control questions after studying the theoretical material.

Reports on laboratory works, individual home assignments are made in accordance with the TPU standard in electronic form and are attached in the corresponding section of the course. It is allowed to attach graphic material (diagrams, diagrams) in the scanned form to the report.

Each topic, taken out in a separate online lecture, is accompanied by testing, after the completion of which the topic is considered passed.

The instruction to the Module 1

The module "Fundamentals of Optical Methods" contains 3 lectures, 2 Laboratory works, Test and Forum. It is considered fulfilled when passing the lectures presented in the module, performing test tasks and take part in the forum discussions

The presented theoretical material makes it possible to repeat the material studied in the classroom. The study of lectures is mandatory and scores are not evaluated. Only the passed lectures allow access to the subsequent sections of the course.

The module contains two books:

- Guide to laboratory work No 1;
- Guide to laboratory work No 2.

The module contains two files for upload:

- Report to laboratory work No 1;
- Report to laboratory work No 2.

The module is considered fully implemented after all its elements have been passed.

The instruction to the Module 2

In the module "Coherent and Incoherent Light Sources" 4 lectures are presented, which serve to consolidate the material discussed in the classroom.

Passage of lectures is mandatory and points are not encouraged. In addition, the module contains 2 practical and 2 laboratory works. The module is considered executed when passing the lectures presented in the module, performing test tasks, performing laboratory work and preparing a report on laboratory work. After performing the lab work, the report must be attached to the system. In this case, the work gets a minimal estimate. To increase the score, laboratory work is protected. Defending is going orally.

The module contains two books:

- Guide to laboratory work No 3;
- Guide to laboratory work No 4.

The module contains two files for upload:

- Report to laboratory work No 3;
- Report to laboratory work No 4.

The instruction to the Module 3

In the module "Optical methods for studying biological tissues and bioliquids" 4 online lectures are presented, which serve to consolidate the material presented during the classes. Passage of lectures is mandatory and additional points are not encouraged. In addition, the module contains 2 practical and 2 laboratory classes. For each laboratory work performed, the report should be submitted. Reports are attached electronically or scanned to the system. Reports without defending correspond to ½ of score. To increase the score, the report should be defended. Protection takes place orally.

The module contains two books:

- Guide to laboratory work No 5;
- Guide to laboratory work No 6.

The module contains two files for upload:

- Report to laboratory work No 5;
- Report to laboratory work No 6.

The module is considered passed when all its elements are executed.

Final assessment

Final assessment – is the exam. Each exam paper contains 3 questions. Students have ½ hour for preparing, then oral examination.