Physics Methods and Information Technologies in Biomedicine

National Research Tomsk State University

Degree or qualification is awarded: **Master's degree**

Language of study: **English**
Mode of study: **full-time**
Duration: **2 years**
Availability of free education: **no**
Price: **335 800 rub per year**

Programme webpage at the university website: http://cjiap.tsu.ru/node/69

Programme curator: **Vladimir P. Dyomkin**
Tel.: **+7 (382) 252-98-98**
E-mail: demkin@ido.tsu.ru

The mentioned study specialization aims to focus the student profile in the field of modern physical methods used in biomedical engineering. Emphasis is placed on understanding the physical principles based on knowledge of many parts of mathematics and theoretical physics in particular. Very important for a comprehensive understanding of the above physical methods are mainly knowledge from the biology and biochemistry.

In terms of representation of individual disciplines are the following categories:

applications of optoelectronics in medicine, biophotonics, characterization methods (especially relates tobiomaterials, surfaces, etc.), spectroscopy, laser technology, nanotechnology, the detection of ionizing radiation by detectors, and fiber optics, not least infield of medicine.

Focus includes a section dedicated to student work on the project, which is part of the thesis and the languages study.

After completing the courses within the study specialization student will be able to focus fully and independently work on a thesis topic in the laboratories of faculty or other external cooperating workplaces.

Admission conditions.

Applicants, who successfully mastered the bachelor's program in physics, are accepted for the program. Applicants are enrolled to the program on a competitive basis following the results of admission tests: the entrance examination and the interview.

Specializations within this programme