

BIOSENSORS AND TRANSDUCERS

Academic discipline "Biosensors and Transducers" (BST) is the part of the educational-professional program of bachelor of direction 6.050902 "Radio Electronic Devices" branch of knowledge 0509 "radio engineering, radio electronic devices and communication". Discipline BST is included in the cycle of professional and practical training. Status credit module is optional for students. Credit module is taught in semester 5 of year 3 training.

The subject of the course: measuring transducers for converting the manifestations of the vital activity of biological object into electrical signals.

Interdisciplinary relations: "Higher Mathematics", "General Physics", "Electronic Devices", "Materials Science and Materials Electronics". Discipline BST provides the study of all without exception follow-up of subjects studied by students 7. 091002 "Biotechnical and Medical Apparatuses and Systems".

The goal of the credit module is to develop students' abilities:

- know the parameters of the manifestations of the functioning of the body to provide physiological experiment;
- to be able to formulate the requirements to the means of converting manifestations of the living body into electrical signals;
- to be able to optimally select the appropriate type of transducers to provide a physiological experiment.

Form of education - full-time. The number of credits of ECTS - 2. The number of partition – 8. The distribution of training time by type of classes: lectures - 18 hours, practical training - 18 hours, independent work – 24 hours. The term control form – differentiated test.