

ELECTRONIC DIAGNOSTIC DEVICES AND SYSTEMS

Academic discipline "Electronic diagnostic devices and systems" corresponds to Educational and professional program "Bachelor" in the section 6.050902 "Radio-electronic devices".

The discipline belongs to the program of professional and practical training.

The subject of the discipline is modern electronic diagnostic devices and systems.

Connection with other disciplines: discipline "Electronic diagnostic devices and systems" bases on the general education knowledge (mathematics, physics, chemistry, principles of biophysics) and the applied disciplines - "Interaction of physical fields with biological objects", "Biological signals, sensors and transducers". Furthermore, this discipline is closely related to such disciplines as: "The element base of Radio-electronic equipment", "Optoelectronic devices of Radio-electronic equipment", "Circuit engineering of Radio-electronic equipment", "Principles of Microelectronics", "Principles of electronics", "Principles of television and television systems".

The aim of the discipline is to develop students' skills in the design, operation and maintenance of modern medical diagnostic equipment.

In accordance with the requirements of the Educational program, after achieving mastery of the discipline students should demonstrate the following results:

Knowledge: basic principles of functioning of modern high-tech medical equipment;

Skills: develop, engineer, design and repair of medical electronic equipment for determination of human diseases;

Experience: modern methods of computer diagnostics; simulation study of inflammatory and pathological processes in the human body, using modern methods and algorithms for processing the results of biomedical research.