

BASICS OF DIAGNOSTICS IN BIOLOGY AND MEDICINE

Academic discipline "Basics of diagnostics in biology and medicine" 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 computer diagnostic devices and systems that are used to study human diseases.

Connection with other disciplines: discipline "Basics of diagnostics in biology and medicine" bases on the general education knowledge (mathematics, physics, chemistry, principles of biophysics).

The aim of the discipline is to develop students' ability to engineer, operate and maintain modern complex diagnostic equipment; design devices considering the connection between structure and properties of materials, 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.