

Research Paper Writing Service

The article discusses the features of the organization of design and research activities in biology using a system-structural approach. The methodological features of project-based learning, which include the principles of openness and humanization, are reflected. Also, in the methodology of project-based learning, systemic, research, problematic, activity, personal, integrated and humanistic approaches are described in sufficient detail, which ensure the multilateral formation of a student as a person. When organizing project work, it is necessary to take into account all the main aspects of the system-structural approach in a complex, this allows us to model a single standard for the methodology of teaching biology, to effectively implement the educational process in the system of secondary general education.

Research work

1. General information

Personnel potential: 1 - Doctor of Sciences; 10 - candidates of sciences; 1 - professor; 10 - associate professors; 7 - senior teachers; 7 - assistants; 6 - support staff.

2. Main directions of scientific activity

The scientific activity of the department in 2021 - 2025 continues according to the approved plan in the following scientific areas:

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Scientific pedagogy in biophysical education: Innovative methods in higher biophysical education in the preparation of both pharmaceutical and medical personnel.

Micro- and nano technologies: Study of morphological and functional features of platelets and leukocytes at the micro- and nano level using atomic force microscopy (AFM). Study of the surface morphology of lymphocytes.

Continuum mechanics: Mechanics of biomedical systems: microcirculation and circulation dynamics, blood rheology

Condensed Matter Physics and Solid State Physics: Defect-impurity engineering of radiation-induced centers in silicon device structures. Physical and structural properties of water and aqueous solutions