

BASICS OF FORMATION AND DEVELOPMENT OF STUDENTS' COMPETENCE IN BIOLOGY CLASSES

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Abstract

Organizational and pedagogical conditions of introducing innovative technologies in the teaching of modern educational content in the formation and development of students' competence in biology classes, the unique feature of this pedagogical process is revealed.

Keywords: competence, process, technology, innovative, pedagogical, education.

As a conceptual basis for the formation and development of students' competence, it is important to highlight the methodology of developing a pedagogical process project and its implementation. This requires appropriate support - processes, educational technologies, methods of identifying and improving the organizational and pedagogical environment.

Since the concept of pedagogical conditions is very actively used to describe the pedagogical process in the organization of modern education, it makes sense to talk about pedagogical conditions separately. Therefore, in our research, a comprehensive analysis of the concept of pedagogical conditions allows us to identify a number of rules that are important for understanding the studied category, and highlight their theoretical justification and evidence:

- the organization and efficiency of the pedagogical process depends on its organizational and pedagogical conditions;
- the exemplary organization of the pedagogical process using innovative technologies reflects the possibilities of the innovative educational environment, which is reflected in the mutual cooperation of the educational institution and responsible institutions, as well as in the targeted activities of the educational institution;
- the organizational-pedagogical conditions of the pedagogical process are characterized by its organizational elements, which in turn reflect the attention of the officials of the educational process to the development of the educational process;
- Implementation of adequately selected pedagogical conditions determines the effective operation and development of modern pedagogical processes.

Based on the above, in our research we consider the pedagogical conditions of biology classes as one of the leading components of the pedagogical process. This is manifested in the purposeful development of students' interactions, as well as in the reflection of their opportunities in the field of primary education, along with other factors that affect the development of students' competence. In our study, we proceed from a situation that can be solved in terms of improving the teaching of students in biology classes, taking into account two main aspects of solving the problem of forming students' competence:

First, to reveal the content and essence of the subjects of the educational process, that is, student-student and teacher-student interaction;

Secondly, to consider the use of innovative technologies in the educational process as a factor in the formation and development of students' competence in the educational process;

Instead, the use of innovative technologies in the educational process occupies a central place in our research on the formation and development of competence in the educational process of students.

From the analysis of research, the following features of the concept of pedagogical conditions of the educational process in biology classes of general secondary education were determined:

- Pedagogical conditions to demonstrate the organizational and pedagogical possibilities of the educational process, to determine its impact on the educational process characterized by;
- Pedagogical conditions are defined by scientists as a set of objective possibilities, which are methods and forms of the pedagogical process, which determine the success of solving the problems in front of it;
- Pedagogical conditions that form the basis of the pedagogical process or control the process include measures of influence that are interrelated in certain situations;
- Pedagogical conditions are described as a support base for the pedagogical process.

The absence of general theoretical and practical bases for the formation and development of students' competencies in biology lessons indicates the absence of universal organizational and pedagogical conditions for the formation and development of students' competencies. It can be seen that in the formation and development of the competence of students in biology lessons, it is necessary to take into account the content of modern education and the presence of various conditions. Therefore, the task of our research is to determine the pedagogical conditions that are of priority in the formation and development of students' competence in biology classes. The organizational-pedagogical conditions for the introduction of innovative technologies in teaching are a unique feature of the pedagogical process, in which the potential of students is revealed in biology lessons. It also allows to conduct the pedagogical process in an orderly and successful manner, to effectively develop the competence of students.

Based on the functions and features of the pedagogical conditions in teaching, we determined the following pedagogical conditions for the formation and development of students' competence in biology classes:

- to make and ensure management decisions on the use of innovative technologies in the formation and development of students' competencies, and to create a regulatory legal framework for teaching students in biology classes;
- Development of a plan to improve the educational and technical base of teaching students in biology classes based on innovative approaches and methods of their implementation;
- Development of a mechanism for organizing the educational process in biology lessons based on the conditions;
- ensuring compliance of students with qualification requirements and improving teaching of students in Biology classes;
- development of a methodology for increasing the efficiency of the educational process aimed at forming and developing students' competencies;
- Organization of the process of monitoring the level of competence of students in biology classes;
- Preparation of the mechanism of self-management and development of students in biology lessons and development of the methodology for its implementation.
- Activation of students' study and extracurricular activities in biology classes, including: integration of interactive cooperation by using interactive methods of teaching and education, formation of students' knowledge base; establishing a connection between academic subjects and practical activities, involving students in practical activities in the field of education;
- use of modern innovative technologies that shape and develop students' competencies in the

educational process;

- to ensure organization of students' education in biology classes in accordance with the requirements of person-oriented and competence approaches;
- increasing the level of subject relations of the educational process in biology classes: formation and development of pupil-pupil and pupil-teacher relations;
- formation and development of pupils' communicative, working with information, self-development, socially active citizenship, awareness and use of national and general cultural, literacy, science and technical news competence. The place and role of innovative technologies in the formation and development of students' competence in biology classes is defined. A method of organizing biological sciences based on innovative technologies and increasing their effectiveness will be developed.

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