

Improving the Methodology of Teaching the Science of Vertebrate Zoology in Higher Education Institutions as A Pedagogical Problem

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Abstract. The article presents opinions and comments on the goals and tasks of vertebrate zoology. In addition, the opinions of scientists on the methodology of teaching vertebrate zoology were expressed

Key words: methodology, working with information, skills, competence, knowledge, concepts, vertebrate zoology

The content of the organization and implementation of the preparation of students for professional activities in the field of biology teaching methodology is in the State Educational Standard (DTS), curriculum, curricula, textbooks, educational and methodological manuals. expressed in applications and recommendations. State educational standards define the basic requirements for the necessary and sufficient level of education and the volume of educational loads. The knowledge, skills and qualifications that students should acquire are determined by the State Education Standard. Also, the State educational standard serves as a control tool, a criterion that determines the conditions of training courses of an educational institution. As a result of the implementation of the state educational standard, the state as a customer sets a task for educational institutions.

Based on these tasks, the educational institution will gradually determine what knowledge, skills and qualifications it should provide and how to implement them. Taking into account the above, the State educational standard, which represents the content of education in the training of teachers in the higher education system, has determined the following (Figure 1.1.1):



Figure 1.1.1. Basic rules of state educational standards.

The First President of the Republic of Uzbekistan, I.A. Karimov, paid special attention to the wide implementation of modern information and communication technologies and said, "No matter what modern field or network we choose, the development of all these is based primarily on

telecommunications and information technologies, the most advanced countries and in general, it is not difficult to see and understand in the example of world experience" [1; p. 280].

Here, we present the necessary conditions for the use of modern educational technologies in teaching (Figure 1.1.2):

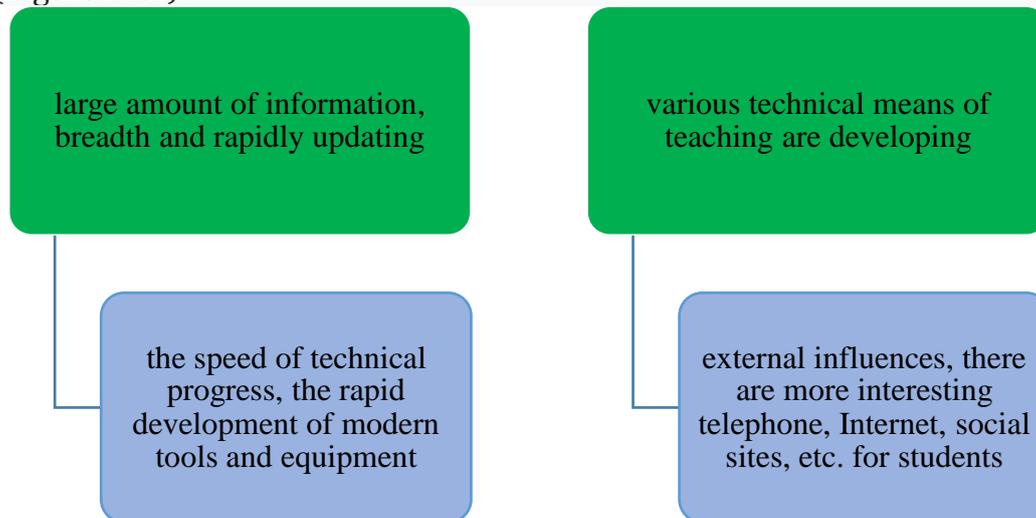


Figure 1.1.2. Necessary conditions for the use of modern educational technologies.

Such influences require that today's lessons be kept up-to-date. S.Kh.Sulliyeva, K.G'.Zokirov, J.O.Tolipova, A.T.G'ofurov, K.Kubakova, Z.Boykhurazov, S.B.Gurbanov, H.U.Mamadaminov, O.Mavlonov [2-b.], [1-10b.] worked.

In the course of our research, the use of modern technologies and methods in the teaching of "Vertebrate Zoology" is mainly the use of modern technologies and modern methods in the teaching of biology, it is necessary to conduct this science on the basis of international research, to have a good understanding of the assigned tasks and to deeply understand the solution.

Researcher M.A. Kuychiyeva touched on the general problems of biology education, and the analytical results of the practice of biology education in higher education institutions today showed that there are a number of problems in teaching this subject [3; 17-18 p.] (Fig. 1.1.4).

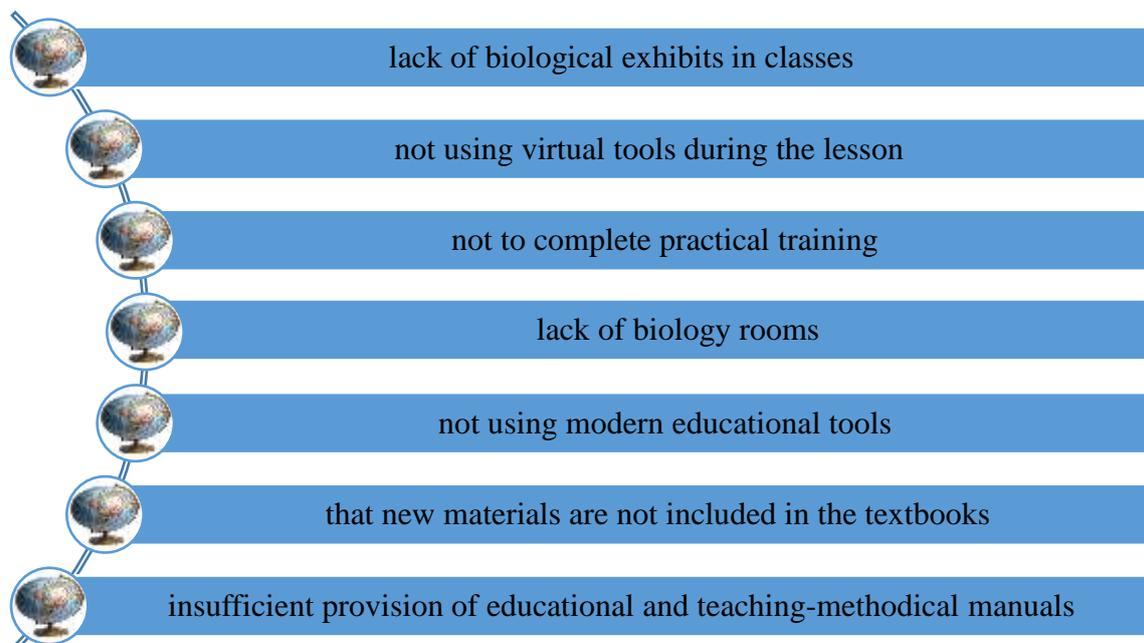


Figure 1.1.4. A number of problems in teaching science (M.A. Kuychiyeva).

During the research, the content of "Vertebrate Zoology" included in the curriculum was analyzed.

Based on the study of the laws of the animal world, students are convinced of the importance of this science in elucidating the different ways of reproduction, growth and development of animal organisms, their morphological, anatomical, physiological and ecological processes. Knowledge in the field of vertebrate zoology is necessary for the protection and rational use of the animal world, the development of measures to combat animals that damage agriculture, forestry and horticulture, food and industrial products, as well as spread dangerous diseases to humans and animals, to determine that modern zoology is directly connected with medicine, agriculture, and veterinary medicine, they will also gain knowledge about the inclusion of some departments of zoology, in particular, subjects such as parasitology, hydrobiology, epizootology, and epidemiology as part of complex sciences. In order for students to master the science of zoology in depth, the materials given in theoretical and practical training should be mutually harmonized [5, p. 8].

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