

THE USE OF INTEGRATIVE HEURISTIC ORIENTED TEACHING METHODS IN THE ECOLOGICAL EDUCATION

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We can hardly overestimate the meaning of ecological education in the system of teaching methods. Nowadays there are only a couple of eco-disciplines introduced in the teaching plans of technical universities concerning the problems of ecology. The traditional educational system deals with a plenty of subjects, the content and methodology of which are not coherent. The main organizational principle of such education is based on the discipline operation as a separate educational system. Because of the tight connection between the subjects there are serious problems, concerning the students' world understanding as an organic whole.

According to the 22nd Article of the Belarusian project of the law concerning high education the educational process at a high establishment is aimed to provide the absolute skill development and intellectually creative potential of the person, as well as the opportunities for his active, free and constructive performance in the society development in order to meet the governmental and social requirements in highly educated specialists. To solve the abovementioned task we can use the synthesis of the world pedagogical achievements, offering us the system of efficient education as a process of man's individual self-realization during the studying activities, aimed on the development of internal and external educational products.

While teaching foreign languages we have noticed a tendency among the students of non-understanding their personal role in the environment. According to the basic (typical) program of teaching a foreign language at a technical university a number of hours should be given to "Ecology". Teaching at the Belarusian State Agrarian and Technical University we spend 10 hours in the 4th term to study the topic usually finishing it with a discussion on the problem. However there is a real difficulty for the second-year students to answer a simple question: "What can you personally do to keep the environment clean?" Mistakenly they consider the ecological problems to be caused only by the wastes from the factories and plants or by Chernobyl disaster, saying nothing about their role in the environment.

In our opinion it could be rational to use integrative heuristic oriented teaching methods for the better educational system operation. The use of heuristic methods of teaching reduces the time given to solve any problem in comparison to the objective choice among the all possible alternatives. The structure of the methods should be isomorphic to nowadays educational structure as it establishes favorable conditions for purposing the special knowledge inwardly digested by the students and the experience of their intercultural communication and emotional-valuable attitude.

The meaning of the integrative concept could be defined according to the analysis of the general professional training made by U. Semin. In order to form purposive consistent professional knowledge and intellectual skills, as well as professionally important character features, the ecological education of the students should be worked out on the basis of integrative teaching methods with the help of genetic causation, target determination and harmonization of foundation plurality. The use of integration radically changes the contents and the frame of modern scientific knowledge, intellectual-conceptual opportunities of any separate sciences. It leads to the unity of knowledge in meaty, structural, logic-gnosiological, scientific-organizational, linguistic-semantic, methodological and pedagogical aspects.

A real contribution into fundamental, technological and methodical student preparation for their further educational and professional work should be considered as the major integrative teaching task. In these conditions one of the major directions of educational development is fundamentalisation and humanization.

However the principles of integrative heuristic oriented teaching should be allied to the traditional system, which is the basis of modern education. In order to implement the methods of integrative technology into the foreign language teaching we have broadened the scheme of lexical studying of the ecological topic. For a couple of years our students take part in annual Students Science Conferences, making reports on the topic visually showing their presentations done in PowerPoint.

Nowadays they have good opportunities to use Internet resources for the material search. We can advise them the following sites:

<http://directory.google.com/Top/Science/Biology/Ecology>

<http://www.guideall.com/ecology.htm>

[http://www.queryster.com/dir.php/Science/Biology/Ecology/
www.ecology.com](http://www.queryster.com/dir.php/Science/Biology/Ecology/www.ecology.com)

On the sites they can find the issues of ecological magazines, special literature, different information about ecological conferences and etc, as well as to discuss the existing environmental problems in chat in real time (on-line). Thus the students could get good lexical training and enough professional knowledge to use them in their future term projects. Such kind of education is aimed not only on the knowledge, but also on the creative intellection, actual interest and the characteristic features of the participants of the educational process. Studying a foreign language is a part of common educational system of preparing qualified specialists and could be widely used in integrative teaching as an foreign language could be used as the means of communication and information exchange.