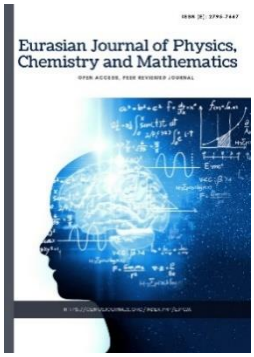

The Modular-Rating System in Pedagogical Higher Educational Institutions as The Basis for The Individually Oriented Teaching of The Physics Teacher

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ABSTRACT

This article describes the importance of the modular-rating system in pedagogical higher education institutions as the basis for the individually oriented teaching of the physics teacher.

Keywords: Modular system, rating system, methodological competence, didactics, professional motive, cognitive motive, professional-methodological skills.

By the technology of the educational process, we must understand the didactic project of this process in the form of specially organized, structured activities aimed at achieving the set goals. When developing a draft educational process for the "electromagnetism" section of general physics, taking into account the individual characteristics and abilities of students using special technology, we must take into account the following:

a) current teaching as a basis for the implementation of individually oriented teaching of myory documents and the science program in the subject of the Department of "electromagnetism" of General Physics;

b) professional and methodological direction of individually oriented teaching;

c) occurs on the basis of the activation of interactive activities of students, the use of active methods and special means of teaching.

To do this, professors and teachers must make a plan for themselves in the following sequence:

1. Determination of the conceptual framework for the design of the educational process in accordance with the educational process documentation:

a) 60110700-analysis of the content and functional component of DTS at pedagogical higher educational institutions in the specialty "Physics and astronomy educational direction";

B) determination of the main functions, types of professional activities in the preparation of the future physics teacher allocated in DTS.

2. determination of the role and role of the Department of "electromagnetism" of General Physics in the system of general professional and special Sciences.

3. Building a system of micro-goals that increases the professional-methodological training of students and the integrity of the educational process: a) the formation of a system of micro-goals of general and private issues of the "electromagnetism" of general physics, which ensures the formation of the "electromagnetism" section and methodology

of General Physics. Increase professional and methodological competencies and level of professional and methodological training among students; b) analysis of the results obtained and correction of structured micro-goals.

4. Design of the section "electromagnetism" of General Physics in conditions of individually oriented education based on the modular system:

a) the construction and selection of educational material on the basis of a modular system providing professional and methodological direction of teaching; B) the development and analysis of a system of individually oriented tasks with the distribution of individual, group, collective educational activities of students; C) the development of a control system based on a rating system for assessing educational results.

5. Development and introduction of the educational-methodological complex in the section "electromagnetism" of general physics into the educational process: analysis of the effectiveness of the use of the developed educational-methodological complex.

6. Design of the main parameters of the educational process: the logical modular structure of the educational process, the distribution of educational and cognitive tasks by modules in accordance with the professional and methodological direction of students, the rational and effective use of rating control.

In the design of the educational process, a project is proposed to teach the "electromagnetism" section of general physics, taking into account the tasks of the above-mentioned professors. In this case, the factor that makes up the system is a motive aimed at a common goal.

Educational goals should be described in the language of the activities studied and formulated as a typical list of tasks that students should learn to solve. The professional activity of the future physics teacher can also be indicated as a process of solving problems in the professional activities of students, based on socio-economic characteristics and the qualification requirements of the state educational standard. With this in mind, the taxonomy of educational goals on each module is considered based on the systematization of professional and methodological tasks.

The educational process should be presented as a set of interacting modules, guided by the professor and the student in accordance with the principle of feedback. The design of modules is carried out in accordance with the content of the "electromagnetism" section of General Physics in the context of individually oriented training of the future physics teacher. The structure of the teaching material on the subject to be used, the perfection of the presentation, the size and sequence of the given material, the recommended literature and ICT resources on the topic determine the curriculum, taking into account the teaching profile of the professor. The variable component of the modular program is provided by the principle of dynamism in accordance with the professional and methodological direction of students.

It is necessary to organize a set of selected modules with the necessary methodological support (a set of computer programs, tasks, assignments) and a system of forms of training sessions, and combine the tools into an educational and methodological complex containing test assignments using ICT.

It is necessary to develop a modular program on the "electromagnetism" section of General Physics. It was carried out on the basis of a modular system and work dedicated to modular education.

A module is a purposeful functional unit that combines educational content and technology for mastering it. Thus, the content of teaching the section "electromagnetism" of general physics should be presented in completely independent complexes, the assimilation of which is carried out in accordance with the main goal. Didactic goals are formulated for the student, which includes not only the volume of instructions and tasks, but also the level of its assimilation. Modules allow you to transfer the educational process to the subject-subject basis, individualize work with each student. The content, methods and organizational forms of building modules should ensure the systematic development of students ' motivations for learning. This implies the

development of positive motivation for learning (professional motives, motivation, self-affirmation, emotional motivation, cognitive motives).

The modular system of teaching effectively stimulates the educational and cognitive activity of students in an individually oriented educational process.

When working with the module, the student can choose the level of assignments, the speed of mastering the educational material in science - this should be one of the conditions for achieving the final result in accordance with the individual characteristics of the student. One-to-one completion of the stages of activity is a sign of the implementation of the regulatory function of subject psychology and one of the indicators of the level of development of self-control.

Mastering knowledge using the selected technology can be carried out through a set of tasks with organizational and methodological guidelines that help to work at an individual pace, in which the student can work relatively or completely independently with the previously proposed Module Program, to achieve which there are methodological guidelines. The purpose of this is to prepare the future physics teacher for methodological activities. The truly high educational impact of this technology is largely ensured by organizing the personal work of students with a wide range of information sources.

The modular program on the section "electromagnetism" of General Physics was built on the harmony of the principles of continuity, orientation to personality, systemality, integration and fundamentalization. Compliance with these laws ensures the effectiveness of the pedagogical process and allows you to accelerate the relationship between the joint activities of a professor and a student in their field. The main goal of the program is to reveal the subjective experience of the student, to coordinate this experience with the content of science knowledge and professional-methodological skills, which must be mastered and formed before studying the "electromagnetism" section of General Physics. The main result of the training is the generalization and systematization of educational material on the "electromagnetism" section of General Physics in the context of individually oriented education, in the development of self-selection in each student according to the content of materials related to science.

A rating system refers to a scoring system that reflects the success and creative potential of students. The rating system of control for our problem on the teaching Ridge is the final component of self-regulation, which is information about the result of educational activity of students. This information makes it possible to regulate the processes of correcting actions in cases of inconsistency between information about the result of educational activity of students and initial ideas about its quality. Evaluation criteria allow students to avoid subjectivity when evaluating. It is known that the use of a rating system helps students to activate their interest in learning and independent work. When combining modular teaching technology and a rating control system, they already talk about a modular-rated teaching system, that is, mastering the subject by modules and evaluating the systematic gradual assimilation of each module in points using control measures.

Conclusion

This article describes the importance of the modular-rating system in pedagogical higher education institutions as the basis for the individually oriented teaching of the physics teacher, highlighting the possibility of effective training of the "electromagnetism" section of general physics through the modular and reting system. Determining the conceptual framework for designing the educational process in accordance with the educational myory documents, building a system of micro-goals that increases the professional-methodological training of students and the integrity of the educational process, developing an educational-methodological complex under the "electromagnetism" section of General Physics and introducing it into the educational

process: the basics of analyzing the effectiveness.

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