

USE OF INTERACTIVE EDUCATIONAL METHODS IN TEACHING ASTRONOMY

Hotamov Fazogir Abdumalikovich

E-mail: xotamov_f@jdpu.uz

Abstract: In this work, using interactive methods of education in teaching the astronomy course in universities, the efficiency aspects of learning from classical methods are shown.

Keywords: Interactive educational methods, teaching methods, pedagogical technologies.

The study of educational experiences of developed countries has shown that pedagogical technologies and their capabilities are an important factor ensuring the effectiveness of education in recent years. For this reason, an important direction of educational reforms was determined to be the effective organization of advanced pedagogical technologies in the activities of institutions responsible for the education of a well-rounded person.

An important aspect of the theory of pedagogical technology is the ability of each pedagogue to effectively use interactive methods in the educational process in order to increase their educational activity, taking into account the important characteristics of learners of different ages.

Organization of education based on the use of interactive educational methods:

- 1) establishing mutual cooperation between the teacher and students;
- 2) independent study of students; 3) helps to create the necessary conditions for them to decide on a creative approach to mastering educational materials. Under the influence of this, the interest in acquiring knowledge, the ability to think independently and freely develops in students, which improves the quality of education and increases its effectiveness. Therefore, it is important to form the skills of effective use of interactive educational methods among teachers of higher education institutions.

Educational materials and their forms for innovative technologies in astronomy education were studied, a syllabus was prepared for the selected subject and topic, lecture materials were prepared, non-standard test tasks were created and automated, case assignments and handouts were prepared, presentation slides were selected. .

The literature, scientific research on improving the teaching content and increasing the effectiveness of the "Fundamentals of Spherical and Applied Astronomy" module in the Astronomy (General Astronomy) course was studied, analyzed from the pedagogical and psychological point of view, the necessary scientific and methodological conclusions were made and the factors were determined. .

was developed for the "Fundamentals of Spherical and Applied Astronomy" section of the Astronomy (General Astronomy) course based on an electronic learning module. .

Teaching the "Fundamentals of Spherical and Applied Astronomy" module in the Astronomy (General Astronomy) course didactic tools for providing information to students were identified, ways of using them during the lesson were developed. .

The ability of teachers to use interactive educational methods effectively and appropriately makes each training session unique, interesting and effective.

It is important for the teachers of higher education institutions to have information about the methods that help to form educational activity in students when forming the skills of effective use of

interactive educational methods. Therefore, interactive educational methods create educational activity in each student and do not allow him to remain a simple listener or receiver of information, but help him to acquire knowledge thoroughly and quickly as an active subject. . Therefore, modern education requires the use of interactive educational methods from the teachers of higher education institutions, to be able to organize each lesson based on a creative approach.

The following results are obtained based on the use of interactive educational methods in the teaching of the "Fundamentals of Spherical and Applied Astronomy" module :

1. Mutual cooperation between the teacher and students becomes more determined;
2. Students' independent study of educational materials helps create the necessary conditions for deciding on a creative approach to mastering .
3. Possessing the skills to use interactive educational methods effectively and appropriately will make each training session unique, interesting and effective.
4. Students will be aware of interactive methods and their essence.
5. Students learn to use interactive methods in the educational process.
6. Students develop skills and abilities to use interactive methods in the educational process.

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