

## Summary

In the individual task student 4 courses, group OF-32, FMF,  
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On the theme: "Improving the efficiency of independent work of students in studying physics that is based computer technology"

*Actuality:* Information technology is increasingly used in various fields of human activity, particularly in education. The introduction of new technologies in educational process promotes comprehensive development and formation of new vision. Modern development of information technology letstousenewtechnologies for physics studying in higher educational institutes. Informative, educational computer programs, multimedia presentations, video lectures and computer programs for modeling of various physical phenomena that enable better learn the material is actively introduced into physics teaching. Also important is the independent work of students, which is based on information technology.

*Problem:* Effectiveness of independent work of students is very low at this stage of the educational. This is caused by deficient organization and the inability of students to learn and imperfect system of innovative technologies in independent work. Also, the problem of low self-efficacy of students associated with ignorance and poor motivation of teachers in process of the implementation of self-directed learning.

*Solutions to the problem:* The analysis of the scientific and technical literature and research is show that the use of modern technologies in teaching physics improves cognitive interest students in physics and increases the desire to learn on their own. The most important "tool" improvement the efficiency of independent work are the computer training technologies that have broad didactic capabilities (Strengthening studentstosearch,processing,storageandsubmissionofinformation,expandingthe spatial and temporal boundaries for communication and information exchange, providing active cooperation of students in the process of collective self-study, the changing nature of the idea of learning tasks forstudents).

*Conclusions:* Thus, the essence of independent work of students defined features educational and cognitive tasks and activities. Independent work is not only deal with student's learning. This is a special form of the educational process that lets plan, organize and supervise the degree of learning. Computer technology is a key method of increasing the efficiency of independent work of students and teaching on Physics lessons.