

TEXNIKA OLIY O'QUV YURLARIDA MUHANDISLAR TAYYORLASHDA TA'LIMGA YANGICHA YONDASHUV

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Annotatsiya:

Ushbu ilmiy maqolada bugungi kunda dunyo miqyosida ta'lim jarayoniga innovatsion yondashuvlarni joriy etish katta ahamiyat kasb etayotganligi haqida fikr bildirilgan. Bundan tashqari, maqolada texnika oliy o'quv yurtlarida muhandislar tayyorlashda ta'lim sifatini oshirish, zamonaviy texnologiyalar asosida bilim berish va amaliy ko'nikmalarni shakllantirish jarayonning eng muhim vazifalaridan ekanligi kabi me'zonlarga urg'u berilgan.

Kalit so'z: metodologiya, didaktika, zamonaviy pedagogik texnologiya, integratsiya, interfaol metod, klaster, kompetensiya.

НОВЫЙ ПОДХОД К ОБРАЗОВАНИЮ ПРИ ПОДГОТОВКЕ ИНЖЕНЕРОВ В ТЕХНИЧЕСКИХ ВУЗАХ

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Аннотация:

В данной научной статье высказано мнение о том, что внедрение инновационных подходов в образовательный процесс имеет сегодня большое значение в мире. Кроме того, в статье выделены такие критерии, как повышение качества образования при подготовке инженеров в технических вузах, предоставление знаний на основе современных технологий и формирование практических навыков как важнейшие задачи этого процесса.

Ключевые слова: методология, дидактика, современные педагогические технологии, интеграция, интерактивный метод, кластер, компетенции.

A NEW APPROACH TO EDUCATION IN THE TRAINING OF ENGINEERS IN TECHNICAL UNIVERSITIES

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Abstract:

This scientific article expresses the opinion that the introduction of innovative approaches to the educational process is of great importance today in the world. In addition, the article emphasizes the criteria such as improving the quality of education in the training of engineers in technical universities, providing knowledge based on modern technologies, and forming practical skills as the most important tasks of the process.

Keywords: methodology, didactics, modern pedagogical technology, integration, interactive method, cluster, competence.

Main part

New approaches to the process of training engineers in technical universities include a number of important factors.

First, the effective use of information and communication technologies in the educational process is a modern requirement. With the help of distance learning, virtual laboratories and digital simulators, students will have the opportunity to combine theoretical knowledge with practice.

Secondly, the effective use of the credit-module system in the educational process plays an important role. This system allows the student to choose his own individual educational trajectory. Such an approach helps students develop independent work skills and acquire the skills required in the modern labor market.

Third, it is necessary to use innovative pedagogical technologies in engineering education. In particular, project-based learning, problem-based learning, interactive methods and teamwork are effective in developing students' initiative, creative thinking and teamwork skills.

Also, technical universities should strengthen cooperation with manufacturing enterprises. Through such cooperation, students will have the opportunity to participate in real projects and consolidate their knowledge in practice. This will increase the competitiveness of future engineers.

Conclusion

In conclusion, one of the urgent tasks is to introduce a new approach to education in the training of engineers in technical universities. The use of innovative technologies, the credit-module system, project-based education and cooperation with production are the main factors in improving the quality of engineering education. As a result of these processes, engineers are trained who are not only qualified, but also creative, enterprising and able to meet modern requirements.

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