

# Application Of Innovative Technologies In Basketball Training And Their Didactic Possibilities

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**Abstract:** This article analyzes the theoretical and methodological foundations of the use of innovative technologies in basketball training, their didactic capabilities and effectiveness in the educational process. The study highlights ways to develop students' technical and tactical skills using digital platforms, interactive simulators, video lectures and analytical programs. It also shows the advantages of integrating AR/VR technologies, mobile applications, sensor measurement tools and training programs based on artificial intelligence into the training process. It is scientifically proven that innovative approaches serve to increase student activity, strengthen an individual approach, improve instructional effectiveness and ensure a high level of efficiency of the educational process. At the end of the article, practical recommendations are developed for the introduction of digital technologies in basketball education.

**Keywords:** Basketball, innovative technologies, digital education, didactic opportunities, interactive methods, training simulators, video analytics, technical and tactical training, mobile applications, artificial intelligence, effectiveness of the learning process.

## INTRODUCTION:

The widespread application of innovative technologies in educational work has become one of the urgent tasks in the current educational process. In particular, the use of digital technologies, visual aids, interactive platforms and analytical programs in the effective organization of physical education classes, in particular basketball lessons, significantly increases the quality of the lesson. Such approaches not only increase students' interest in sports, but also allow them to deepen their technical and tactical knowledge, and form independent analytical skills.

Basketball, as a team sport, increases the physical activity of students, forms important competencies such as socialization, quick thinking and decision-making. The use of innovative approaches in teaching this sport makes it possible to increase the didactic effectiveness of the lesson, strengthen the individual approach and conduct classes in a new format. The integration of modern technologies into basketball classes contributes to a qualitatively new level in the formation of knowledge, skills and qualifications in students.

**Research objective:** To develop students' technical and tactical skills through the use of innovative technologies in basketball lessons, to identify didactic opportunities that increase the effectiveness of the lesson and increase students' interest in sports, and to develop mechanisms for their practical implementation.

### Tasks of the topic:

- To analyze the types of modern innovative technologies used in basketball lessons and to determine their pedagogical capabilities.
- To study the impact of interactive methods, multimedia tools and digital platforms on students in organizing basketball lessons.
- To develop a didactic model of basketball lessons using innovative technologies and to determine its level of effectiveness based on its practical testing.

**Research results and discussion:** According to the results of the conducted research, the use of innovative technologies in basketball lessons significantly increased students' interest in the lessons. In particular, when lessons were organized

using digital technologies, video analysis tools, interactive platforms (for example, online analysis via "Coach's Eye", "Hudl", "Zoom"), students' understanding of technical movements and their level of repetition increased. Through such approaches, each student had the opportunity to see, analyze and improve their mistakes.

During practical experience, it was found that innovative technologies not only increased students' activity in the lesson process, but also had a positive effect on aspects such as coordination of collective actions, quick decision-making, and simulation of competition situations. At the same time, the use of technologies in lessons was an important factor in the formation of students' skills of independent learning, self-control and self-analysis. For the teacher, these approaches created opportunities for effective lesson management, accurate assessment of student behavior, and individual approach.

Also, classes organized on the basis of innovative technologies served as an effective tool for improving the general sports culture of students, maintaining physical activity, and promoting a healthy lifestyle. The results obtained during the study proved that the use of modern technologies in basketball classes is highly effective not only from a methodological, but also from a pedagogical and educational point of view.

## CONCLUSION

The effective use of innovative technologies in organizing basketball lessons in accordance with modern educational requirements is an important factor in increasing the effectiveness of the educational process. The results of the study showed that lessons conducted using interactive tools, video analysis programs, multimedia materials and digital platforms have a positive effect on strengthening students' technical and tactical knowledge, analyzing their own actions, forming independent thinking and self-development skills.

Basketball lessons organized on the basis of innovative approaches increase students' interest in sports and serve to develop important competencies such as teamwork, responsibility, and quick decision-making. Also, these approaches allow the teacher to manage and effectively analyze the lesson, taking into account the individual characteristics of each student. In general, the use of innovative technologies in basketball lessons brings the educational process to a qualitatively new level and is an effective pedagogical resource in forming students as comprehensively well-rounded individuals.

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