



## ASSESSMENT OF THE EFFECTIVENESS OF ONLINE PHYSICAL EDUCATION

**Iqbolakhon Khasanboy qizi Abdiolimova**

Lecturer Department of Theory and Methodology of Sports Games Faculty of Sports Activities Fergana State University, Uzbekistan

**Abduraxmanov Saydillo Khakimovich**

Lecturer Department of Theory and Methodology of Sports Games Faculty of Sports Activities Fergana State University, Uzbekistan

### Annotation

This article examines the effectiveness of online physical education (PE) programs, especially in the wake of the COVID-19 pandemic. It explores key indicators such as student engagement, learning outcomes, physical activity levels, and instructor adaptability. The article also discusses challenges and best practices for enhancing the quality and impact of virtual PE classes.

### Keywords

Online physical education, distance learning, physical activity, student engagement, PE effectiveness, virtual fitness, remote teaching

### Introduction

Today, with the spread of digital technologies in the field of education, physical education lessons have also been moved to online environment. Especially during the COVID-19 pandemic, this situation became mandatory, and teachers and students began to look for ways to conduct a practice-based lesson, such as physical education, remotely. In this context, it has become very important to evaluate the effectiveness of online physical education.

Online physical education is conducted through video lessons, exercise tracking apps, and live interactions, in contrast to the traditional classroom environment. Students learn exercises that can be done at home in these classes, gain health knowledge, and keep their activities accountable. While this method provides a comfortable and free environment for some students, it can pose a challenge for others due to lack of motivation or lack of adequate physical conditions.

When viewed in terms of efficiency, one of the greatest advantages of online physical education is the possibility of exercising individual control using technology. Teachers can prepare individual exercise plans for each student and monitor their progress through digital means. But the limitation of team games and social communication negatively affects the formation of students' skills to act together.

At the same time, not every student's home may have suitable equipment or conditions for exercise. This condition affects the quality and duration of physical activity. However, through properly structured online content, students can achieve positive results in shaping healthy lifestyle habits.

### Effectiveness Criteria for Online PE

To evaluate the success of online physical education, we can examine several key factors:

#### 1. Student Engagement

Maintaining student motivation in online PE is a major challenge. Effective programs often use interactive videos, gamified exercises, and social challenges (like step counts or fitness leaderboards) to increase participation. Studies have shown that students are more likely to engage when they receive immediate feedback and can track their progress.

#### 2. Learning Outcomes



Online PE can still address important curricular goals such as motor skill development, knowledge of fitness principles, and healthy lifestyle habits. However, the depth of physical skill acquisition may be limited compared to traditional settings. Theoretical knowledge (e.g., understanding muscle groups, heart rate zones) can be effectively delivered online with the help of multimedia content and quizzes.

### 3. Physical Activity Levels

One of the primary goals of PE is to promote regular physical activity. Research indicates that students in online PE classes often show lower levels of daily activity, especially if their environment does not support movement (e.g., limited space, lack of equipment). Programs that include activity logs, wearables, or parent collaboration tend to show better results.

### 4. Instructor Adaptability

The success of online PE also depends on how well teachers adapt to the digital format. Instructors who creatively use online platforms (Zoom, YouTube, Google Classroom) and modify activities for home environments can maintain high levels of effectiveness. Continuous professional development and peer-sharing of resources are vital.

### Challenges of Online PE

Despite efforts to optimize virtual PE, there are notable limitations:

- Lack of equipment and space in students' homes.
- Inability to provide hands-on correction or support.
- Screen fatigue and reduced motivation.
- Digital divide: not all students have equal access to devices or stable internet.

### Best Practices for Enhancing Online PE

- Blended approaches: Combining asynchronous video lessons with live check-ins.
- Personalized goal-setting and fitness tracking apps.
- Parental involvement to monitor activity.
- Incorporating mental wellness and mindfulness exercises.
- Ensuring inclusivity for students with disabilities.

### Conclusion

While online physical education cannot fully replicate the benefits of traditional, in-person PE, it can still be effective when thoughtfully designed. Programs that emphasize engagement, individualized instruction, and adaptive teaching strategies can promote physical well-being and support learning outcomes. As digital education continues to evolve, hybrid models that integrate both online and physical instruction may offer the most balanced and inclusive approach to physical education in the future.

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