

Development of Web-Based Learning Media: Physical Education, Sports, and Health (PJOK) Volleyball Subjects

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ABSTRACT

The aim of this research is to determine the feasibility of web-based learning media in the PJOK volleyball subject and the effectiveness of web-based learning media in the PJOK volleyball subject. The research uses the ADDIE Research and Development model approach (Analysis, Design, Development, Implementation, and Evaluation). The research results show: (a) web-based learning media from media expert validation with a score of 4.45, 89%, very feasible category; design expert validation with a score of 4.6 percentage 92%, very feasible category; material expert validation with a score of 4.5 percentage 90%, very feasible category; individual student trials with a score of 4.3, percentage 86%, very high category; student group trials with a score of 4.5, with a percentage of 90%, very high category. (b) The effectiveness of web-based learning media shows that there is a significant difference between student learning outcomes in experimental classes and classes without using web-based learning media at a significance level of 0.05 or 5%. The results of the T-test calculations on the posttest scores for the experimental class and control class show $t_{count} > t_{table}$, namely $3,225 > 1,677$. It is evident from the average value of the posttest learning results for the experimental class that it is 88% higher than the posttest learning results for the control class at 64%. Thus, it can be concluded that the web-based learning media developed is effectively used to improve student learning outcomes.

KEYWORDS

Instructional Media; Web; Volleyball; PJOK

INTRODUCTION

The use of information technology is able to produce innovation in learning methods, with the hope that the application of information technology can encourage students to develop independent learning abilities. However, learning development needs to be adapted to the unique characteristics and concepts of each subject. The world of education has been influenced by advances in technology and science, so efforts are made to adopt new technology in the learning process, such as utilizing media and multimedia. (Budiman, 2017)

One important element in successful learning is learning media. The use and selection of learning media are very important to improve the learning process and convey information and material more effectively to students. In addition, learning media can help students summarize information briefly and interestingly, making learning data easier to understand and increasing their understanding. (Arsyad, 2014).

Physical Education, Sports, and Health (PJOK) subjects are a series of holistic educational processes in learning that pivot on physical activity and healthy lifestyle habits, thereby encouraging harmonious and balanced physical, mental, social, and emotional development. Physical education is education from, through, and in movement, physical activity, and sports to grow and develop the potential of students and individuals

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