

# DEVELOPMENT OF EYE-HAND COORDINATION TEST INSTRUMENTS IN TABLE TENNIS GAMES FOR STUDENTS OF PJKR FIK UNY

by Dennis Dwi Kurniawan, Alfonsus Maria Bandi Utama, Agus Susworo Dwi Marhaendro, Amat Komari

## ABSTRACT

Distance learning in the field of sports education, particularly at the university level, is well suited for self-directed and structured learning. In the table tennis course, it is necessary to identify the initial ability of hand-eye coordination of PJKR FIK UNY students through special test instruments on the sport of table tennis with audio-visual-based test guidelines. Methods of administering tests are provided during distance learning. The application of this test guideline includes research on the development of a table tennis game eye-hand coordination test instrument using content validity and reliability tests, as well as an effectiveness test using the pretest-posttest design method. The sample consisted of table tennis students from PJKR FIK UNY which was taken by all students from one class, namely 40 students. This research was conducted from February to April 2021. The results of the validity test using aiken's v with a content validity result of 0.883 which was declared very valid. The results of the reliability test with the test-retest method got the results of the instrument reliability of 0.89 so that the instrument was declared very reliable. For the results of the effectiveness test using Paired Sample Test data analysis, the value of sig = 0.000 < 0.05, the conclusion from the test results there is a difference in the effect on the ability of hand-eye coordination in the table tennis game between before and after being given test guidelines using audio-visual media. The conclusion of the research on the development of appropriate instruments to be used as a specific measuring instrument in branching, namely the game of table tennis and the application of test guidelines using audio-visual media can improve the results of eye-hand coordination tests in PJKR FIK UNY students.

Kata Kunci: *table tennis, hand-eye coordination, distance learning, audio visual media*