FEASIBILITY TEST OF BASIC MOVEMENT SKILLS TEST INSTRUMENTS MANIPULATIVE COMPONENTS BASED ON SENSORS AND INTERNET OF THINGS/IoT

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ABSTRACT

Basic movement skills testing tools are one of the dominant factors influencing the development of movement skills in children. The aim of this research is to test the feasibility of a basic motor skills test instrument (Fundamental Motor Skills) with sensor-based manipulative components and the Internet of Things/IoT for preschool children. The tool instrument developed can carry out assessments that are valid and reliable, objective, easy, effective, efficient and practical and can be used by PAUD, Kindergarten students, early childhood trainers and Physical Education Teachers. This type of research is research and development (R&D). The first stage is designing and creating an IoT-based tool system that can measure basic movement skills and display it on the website. The second stage carries out characterization and feasibility testing of the system that has been built. The results of the research showed that from the validation process carried out by material experts who had assessed the basic movement skill instrument product with Sensor-based manipulative components and the Internet of Things/IoT in terms of Material Suitability Aspects and Media Aspects, it was in the very suitable category for use, whereas in the validation process media experts who have assessed products that have been developed based on the Media Feasibility Aspect as being in the very feasible category

Kata Kunci: Feasibility, Instruments, Skills, Movement