

# INNOVATION SMART WHOLE BODY REACTION TEST DIGITECH BASE IN INDUSTRI 4.0 ERA

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## ABSTRACT

The speed body's reaction to every sport is very necessary. The tools used to measure the speed of digital-based body reactions still cannot be found easily, and the price is still relatively expensive. This research aims to develop a digital-based body reaction rate measurement tool that is easy, inexpensive, accurate and portable. The research method uses a research development approach by following the Borg and Gall design according to the stages and applicable rules. The results showed that the tool to measure the speed of the body's reaction was resolved with several advantages obtained, including: 1). Measurements are made digitally in units of seconds. 2). One measurement can be used to measure five athletes. 3). The tool is packed in one suitcase making it easy to move around. 4). Have the memory to record from more than 1000 athletes. 5). The energy used can use an electric charge, and is equipped with a lithium battery that can last more than six hours. 6). The results are more accurate and data can be transferred to the laptop. 7). More effective in terms of time and results, and efficient in terms of cost and testor is just one person. The tool has been validated by measurement test experts, IT experts and media experts. The tool is given by researchers the brand name SMART WBR 515 GM. From this it can be concluded that the tool is suitable for use in the whole body reaction measurement test, as well as effective and efficient.

Kata Kunci: *Innovation, Whole body reaction, digital*