ABSTRACT

Dwi Anggreani Hanifah, ID 4173121011 (2024). The Development of a Hypercontent Module Based on QR Code on Momentum and Impulse Materials.

The young generation currently lives in the digital era where digital influence cannot be separated from their daily lives, learning to be using digital and technology for learning, anywhere and at any time, stands alone, and increase digital literacy makes the presence of develop of module as a teaching materials very necessary to support today's generation of students. This research aims to knowing the validity, improvement of student learning outcomes, and educator and student responses to the hypercontent module based on QR code on momentum and impulse materials. The type of research used is research and development (R&D) using Thiagarajan's 4D model which is limited to the 3D stage. The instruments used are multiple choice questions on the pretest and posttest sheets, material expert and media expert validation sheets, student and teacher response questionnaires, with an assessment based on a likert scale. This research was conducted on students in class XI MIPA 1 and XI MIPA 2 MAN 1 Medan. The results showed that the validity of the development of a hypercontent module based on QR code on momentum and impulse material was very valid, from material experts with a percentage of 83.5 and media experts with a percentage of 86 with each percentage included in the very valid category. The percentage of responses from students is 93 and the percentage of educators is 88, each percentage is included in the very good criteria. The hypercontent module can improve student learning outcomes, with an N-gain result value of 0.73 in high criteria.

Keywords: *Hypercontent, Module, R&D, Momentum and Impulse, QR code*