PENGEMBANGAN BAHAN AJAR *E-MODUL* IPA BERMUATAN TES *ONLINE* UNTUK MENINGKATKAN HASIL BELAJAR SISWA KELAS VII di SMP NEGERI 3 SINGARAJA TAHUN PELAJARAN 2019/2020

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ABSTRAK

Penelitian ini bertujuan untuk (1) mengetahui proses rancang bangun *e-modul* IPA bermuatan tes *online*, (2) mengetahui hasil validitas *e-modul* IPA bermuatan tes *online* menurut para ahli dan uji coba produk, dan (3) mengetahui efektivitas *e-modul* IPA bermuatan tes *online*. Penelitian ini merupakan penelitian pengembangan. Model pengembangan yang digunakan yaitu model ADDIE. Metode pengumpulan data yang digunakan, yaitu: metode wawancara, pencatatan dokumen, kuesioner, dan tes objektif tipe pilihan ganda. Analisis data menggunakan analisis deskriptif kualitatif, kuantitatif, dan statistik inferensial (uji-t). Hasil penelitian (1) Rancang bangun *E-Modul* IPA bermuatan tes *online* dengan model ADDIE meliputi lima tahapan: *(a) analysis, (b) design, (c) development, (d) implementation, dan (e) evaluation.* (2) *E-Modul* IPA bermuatan tes *online* valid dengan: (a) hasil *review* ahli isi mata pelajaran menunjukkan *E-Modul* IPA bermuatan tes *online* berpredikat sangat baik (98%), (b) hasil *review* ahli media menunjukkan produk berpredikat sangat baik (90,03%), (c) hasil *review* ahli desain pembelajaran menunjukkan *E-Modul* IPA bermuatan tes *online* berpredikat sangat baik (96,04%), (d) hasil uji perorangan menunjukkan *E-Modul* berpredikat sangat baik (91%), hasil uji kelompok kecil menunjukkan *E-Modul* berpredikat sangat baik (91,05%). Hasil uji lapangan menunjukkan produk berpredikat sangat baik (94%). (3) Efektivitas pengembangan menunjukkan bahwa *E-Modul* IPA bermuatan tes *online* yang dikembangkan efektif meningkatkan hasil belajar IPA (t_{hitung} = -31,27 > t_{tabel} = 1,67 pada taraf signifikansi 5%). Ini berarti bahwa *E-Modul* IPA bermuatan tes *online* terbukti efektif secara signifikan dapat meningkatkan hasil belajar IPA.

Kata kunci: E-Modul, Model Pengembangan, Tes Online

ABSTRACT

This study aims to (1) determine the design process of an IPA module e-module containing online tests, (2) determine the results of the validity of an IPA module containing online test according to experts and product trials, and (3) determine the effectiveness of IPA module e-modules charged online tests. This research is a research development. The development model used is the ADDIE model. Data collection methods used, namely: interview methods, recording documents, questionnaires, and multiple choice type objective tests. Data analysis uses descriptive qualitative, quantitative, and inferential statistics (t-test). The results of the study (1) The design of the Science E-Module containing online tests with ADDIE models includes five stages: (a) analysis, (b) design, (c) development, (d) implementation, and (e) evaluation. (2) E-Module IPA loaded online valid test with: (a) the results of expert review of subject content shows the E-Module IPA loaded online test is very good (98%), (b) the results of the media expert review shows excellent product predicate (90.03%), (c) the results of the learning design expert review showed that the E-Module of Science-laden online test was very good (96.04%), (d) the results of individual tests showed that the E-Module was very good (91%) , the results of the small group test showed that the E-Module was very good (91.05%). The results of the field test showed that the product was very good (94%). (3) The effectiveness of the development shows that the E-Module Science loaded online test that was developed effectively improves the science learning outcomes (tcount = -31.27> ttable = 1.67 at the 5% significance level). This means that the E-Module Science loaded online test has proven to be effective and can significantly improve science learning outcomes.

Keywords : *E-Module, Development Model, Tes Online*