ABSTRACT

Electronic module is an innovative media that can increase students' interest in learning. This study uses the Research and Development research method, namely a study that makes, produces or develops a product in the form of a plan to evaluate the validity of the product that has been produced. This study uses the Rowntree and Tessmer model, where in the Rowntree model there are planning, development and evaluation stages, then to the evaluation stage using the Tessmer model, namely self evaluation, expert review, one to one evaluation and small group. Data collection techniques were carried out by conducting observations, interviews and questionnaires given to respondents. The results of the development of biology electronic module based learning media has been validated vy experts including media experts with 99% (very valid), material experts 92% (very valid), linguists 95% (very valid) with an average result of 95% "very valid" and feasible to use. The results of the practice test of biology learning media based on electronic module (e-module) obtained educator scores of 93% (very practice), one to one evaluation 88% (very practice) and small group evaluations 85% (very practice) with average results. an average of 90% which is categorized as very practice to be applied during the learning process.

Keywords : E-Module, Rowntree, Tessmer, Plant Structure and Function.

ABSTRAK

Modul elektronik merupakan media inovatif yang dapat meningkatkan minat peserta didik dalam belajar. Penelitian ini menggunakan metode penelitian *Research and Development* yaitu suatu penelitian yang membuat, menghasilkan atau mengembangkan sebuah produk dalam bentuk perencanaan sampai ke evaluasi validitas terhadap produk yang sudah dihasilkan. Penelitian ini menggunakan model Rowntree dan Tessmer, dimana pada model Rowntree terdapat tahap perencanaan, pengembangan dan evaluasi, selanjutnya ke tahap evaluasi menggunakan model Tessmer yaitu *self evaluation, expert review, one to one evaluation* dan *small group.* Teknik pengumpulan data dilakukan dengan cara melakukan observasi, wawancara dan angket yang diberikan kepada responden. Hasil dari pengembangan media pembelajaran biologi berbasis modul elektronik *(e-modul)* divalidasi oleh para ahli diantaranya ahli media dengan hasil 99% (sangat valid), ahli materi 92% (sangat valid), ahli bahasa 95% (sangat valid) dengan hasil rata-rata validasi 95% "sangat valid" dan layak digunakan. Hasil uji coba praktikalitas media pembelajaran biologi berbasis modul elektronik *(e-modul)* memperoleh perolehan nilai pendidik 93% (sangat praktis), *one to one evaluation* 88% (sangat praktis) dan *small group evaluation* 85% (sangat praktis) dengan hasil rata-rata 90% yang dikategorikan sangat praktis untuk diterapkan saat proses pembelajaran.

Kata kunci : *E-Modul, Rowntree, Tessmer, Struktur dan Fungsi Tumbuhan.*