

Muhammad Yunus Firdaus.2022.*Pengembangan Elektronik Modul Menggunakan Pendekatan Kontekstual Berbasis Sigil Software pada Mata Pelajaran Komputer Jaringan Dasar Kelas X TKJ*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura, Dosen Pembimbing Laili Cahyani, S.Kom., M.Kom.

ABSTRAK

Bahan ajar merupakan salah satu faktor penting dalam kegiatan pembelajaran agar dapat berjalan dengan baik dan lancar. Guru diharapkan menjadi fasilitator yang memfasilitasi siswa dalam belajar. Dan siswa sendiri aktif dalam pembelajaran. Salah satu kendala dalam pembelajaran yang peneliti temui di SMK Negeri 7 Jakarta saat kegiatan Asistensi Mengajar yaitu belum adanya bahan ajar berupa elektronik modul dan sulitnya siswa dalam mencari referensi di internet terkait mata pelajaran Komputer Jaringan Dasar. Adapun tujuan yang dilakukan peneliti yaitu mengembangkan e-modul pada mata pelajaran Komputer Jaringan Dasar berbasis *sigil software* menggunakan pendekatan kontekstual. Jenis penelitian ini adalah penelitian pengembangan atau Research and Development (R&D) dengan menggunakan model pengembangan ADDIE (*Analysis , Design , Development , Implementation , Evaluation*). Objek penelitian ini adalah pengembangan elektronik modul menggunakan pendekatan kontekstual berbasis *sigil software*. Hasil dari penelitian ini memperoleh hasil validasi ahli materi sebesar 96,5% dengan kategori “sangat valid” dan mendapatkan hasil validasi ahli media sebesar 84,5% dengan kategori “sangat valid”. Sedangkan hasil uji coba produk dengan kelompok kecil sebanyak 9 responden memperoleh hasil 86% dengan kategori “sangat praktis” dan uji coba kelompok besar sebanyak 61 responden mendapat hasil 87% dengan kategori “sangat praktis”. Simpulan dari penelitian ini yaitu elektronik modul yang dikembangkan menggunakan pendekatan kontekstual berbasis *sigil software* layak digunakan sebagai salah satu bahan ajar dalam kegiatan pembelajaran Komputer Jaringan Dasar kelas X TKJ.

Kata kunci : Elektronik Modul, Pendekatan Kontekstual, ADDIE, Sigil Software. Mendesain Jaringan LAN.

Muhammad Yunus Firdaus. 2022. *Development of Electronic Modules Using a Sigil Software-Based Contextual Approach in Basic Networking Computer Subjects Class X TKJ*. Thesis, Informatics Education Study Program, Faculty of Education, Trunojoyo University Madura, Advisor Laili Cahyani, S.Kom., M.Kom.

ABSTRACT

Teaching materials are one of the important factors in learning activities so that they can run well and smoothly. Teachers are expected to be facilitators who facilitate students in learning. And students themselves are active in learning. One of the obstacles in learning that researchers encountered at SMK Negeri 7 Jakarta during Teaching Assistance activities was the absence of teaching materials in the form of electronic modules and the difficulty of students in finding references on the internet related to Basic Computer Networking subjects. The aim of the researcher is to develop e-modules in Basic Network Computer subjects based on sigil software using a contextual approach. This type of research is research development or Research and Development (R&D) using the ADDIE development model (Analysis, Design, Development, Implementation, Evaluation). The object of this research is the development of electronic modules using a contextual approach based on sigil software. The results of this study obtained material expert validation results of 96.5% in the "very valid" category and obtained media expert validation results of 84.5% in the "very valid" category. While the results of product trials with small groups of 9 respondents obtained 86% results in the "very practical" category and large group trials as many as 61 respondents got 87% results in the "very practical" category. The conclusion of this research is that the electronic module developed using a contextual approach based on sigil software is appropriate to be used as one of the teaching materials in Basic Network Computer learning activities for class X TKJ.

Keywords : Electronic Module, Contextual Approach, ADDIE, Sigil Software. Designing a LAN Network.