ABSTRAK

Brema Firdaus Ginting : *Pengembangan Bahan Ajar Berbasis Modul Pada Mata Pelajaran Gambar Teknik di SMK Negeri 14 Medan Kelas X Program Keahlian Desain Pemodelan dan Informasi Bangunan.* Skripsi. Fakultas Teknik. Universitas Negeri Medan. 2022.

Penelitian ini dilakukan berdasarkan nilai mata pelajaran Gambar Teknik yang rendah dan masih kurang tersedianya bahan ajar terutama berbasis modul pada proses pembelajaran pada kelas X DPIB di SMK Negeri 14 Medan. Penelitian ini bertujuan untuk : (1) Mengetahui proses pengembangan modul yang tepat untuk mendukung proses pembelajaran pada mata pelajaran Gambar Teknik, (2) Mengetahui kelayakan modul mata pelajaran Gambar Teknik berdasarkan penilaian ahli materi, ahli bahasa, ahli media/modul, guru mata pelajaran dan siswa kelas X DPIB. Penelitian ini menggunakan metode *Research and Development (R&D)* dengan model ADDIE meliputi tahapan analisis (*analyze*), perancangan (*design*), pengembangan (*development*), implementasi (*implementation*), dan evaluasi (*evaluation*). Instrumen yang digunakan pada penelitian ini adalah angket. Angket digunakan untuk menguji tingkat kelayakan modul melalui validasi dari ahli media, ahli materi, ahli bahasa, guru mata pelajaran, dan pengguna. Validasi yang dilakukan didapat skor akumulasi sebesar 88,5% dengan rincian ahli media memberikan skor 95,1%, ahli materi memberikan skor 85,4%, ahli bahasa memberikan skor 84%, guru mata pelajaran memberikan skor 96,2%, dan hasil akumulasi 22 orang pengguna sebesar 81,6%. Berdasarkan penilaian para ahli dan uji coba kepada pengguna maka dapat simpulkan bahwa modul pelajaran Gambar Teknik yang telah dikembangkan dinyatakan layak digunakan.

Kata Kunci : Pengembangan Modul, *Research and Development (R&D)*, Gambar Teknik, ADDIE

ABSTRACT

Brema Firdaus Ginting: D*evelopment of Module-Based Teaching Materials in Engineering Drawing Subject at SMK Negeri 14 Medan Class X Building Modeling and Information Design Expertise Program.* Scription. Faculty of Engineering. Medan State University. 2022.

This research was conducted based on the low grades of Engineering Drawing subjects and the lack of availability of teaching materials, especially module-based in the learning process in class X DPIB at SMK Negeri 14 Medan. This study aims to: (1) Know the process of developing the right module to support the learning process in Engineering Drawing subjects, (2) Knowing the feasibility of the Engineering Drawing subject module based on the assessment of material experts, linguists, media/module experts, subject teachers and class X DPIB students. This study uses the Research and Development (R&D) method with the ADDIE model covering the stages of analyze (analyze), design (design), development (development), implementation (implementation), and evaluation (evaluation). The instrument used in this research is a questionnaire. Questionnaires are used to test the feasibility of the module through validation from media experts, material experts, language experts, subject teachers, and users. The validation carried out obtained an accumulated score of 88.5% with details of media experts giving a score of 95.1%, material experts giving a score of 85.4%, linguists giving a score of 84%, subject teachers giving a score of 96.2%, and the results the accumulation of 22 users is 81.6%. Based on the assessments of experts and user trials, it can be concluded that the Engineering Drawing lesson module that has been developed is declared suitable for use.

Keywords: Module Development, Research and Development (R&D), Engineering Drawing, ADDIE