

## ABSTRAK

Skripsi ini memaparkan penelitian tentang desain dan pengembangan bahan ajar Sistem Komputer menggunakan pendekatan saintifik untuk pendidikan menengah SMK dan MAK kelas X/2 dengan mengacu pada kurikulum 2013. Penelitian ini bertujuan untuk membuat desain bahan ajar Sistem Komputer serta mengetahui respon guru mengenai kelayakan isi dan penyajian desain bahan ajar yang peneliti kembangkan. Metode yang digunakan dalam penelitian ini adalah kualitatif deskriptif. Adapun tahapan penelitian dilakukan melalui prosedur penelitian dan pengembangan (*Research and Development*). Penelitian dilaksanakan di SMKN 2 Bandung program keahlian Teknik Komputer Jaringan, Rekayasa Perangkat Lunak dan Multimedia, jurusan Teknik Komputer dan Informatika. Desain bahan ajar sistem komputer yang dikembangkan berupa bahan ajar cetak berjumlah 183 halaman dan diperuntukkan bagi kelas X/2 SMK dan MAK jurusan Teknik Komputer dan Informatika. Hasil penelitian mengenai desain bahan ajar sistem komputer yang dikembangkan menunjukkan bahwa didapatkan persentase respon guru untuk kelayakan isi sebesar 82% dan kelayakan penyajian sebesar 85%. Dengan demikian dapat disimpulkan bahwa desain bahan ajar sistem komputer yang dikembangkan layak digunakan untuk membantu proses kegiatan belajar mengajar pada mata pelajaran sistem komputer kelas X/2 di SMA dan MAK.

**Kata kunci :** Sistem komputer, bahan ajar, pendekatan saintifik, penelitian dan pengembangan.

## **ABSTRACT**

*This mini thesis describes research on the design and development of teaching material Computer Systems using scientific approach for vocational high school (SMK and MAK) of class X/2 with reference to the curriculum 2013. This research aimed to design teaching material Computer Systems as well as to observe the responses of teachers regarding on the properness of content and design presentation of teaching materials that researcher developed. The research method used is descriptive qualitative. The stages of research conducted are through the procedures of research and development. The experiment was conducted in SMKN 2 Bandung at the Computer and Network Technique program, Software Engineering and Multimedia, Department of Computer Engineering and Informatics. Design of teaching materials developed is in the form of printed version with 183 pages and intended for class X/2 SMK and MAK Computer Engineering and Informatics Department. The results of research regarding on the design of teaching material Computer Systems showed that the percentage of teacher's responses are 82% for properness category of content and 85% for properness category of presentation. Therefore, it can be concluded that the design of teaching material Computer System which has been developed is proper/ feasible for supporting the teaching and learning process of computer system subjects in class X/2 in SMK and MAK.*

**Keywords:** *computer systems, teaching material, scientific approach, research and development.*