

ABSTRACT

Julita Rahmi, 2020, **Design and Manufacture of Library Information Systems at SMK Negeri 1 Padang Using Java Netbeans, Bachelor of Informatics Engineering Education, Faculty of Teacher Training and Education, Putra Indonesia University "YPTK" Padang.**

This study aims to determine the validity of the design and manufacture of library information systems at SMK Negeri 1 Padang using Java Netbeans. This research is a type of research and development (Research & Development) with a 4-D model development design. The development steps are as follows. (1) Define, (2) Design, (3) Development and (4) Disseminate. The subject of the trial in this study amounted to 3 people, where two lecturers and one library employee.

Based on the research that has been done, the results of the validity test by experts are obtained. Overall, the validator test assessment of the library information system at SMK Negeri 1 Padang is 77.83%, so that the level of validity can be interpreted to be quite valid to use. The results of the practicality test as a whole, the practicality assessment of the library information system at SMK Negeri 1 Padang is 95.31%, so that the practical level can be interpreted to be very practical to use.

The results of the overall effectiveness test assessment of the effectiveness of the library information system at SMK Negeri 1 Padang are 97, 00% so that the level of effectiveness can be interpreted very well. In conclusion, based on the assessment along with expert input as well as the results of field trials the Library Information System as an information system has been tested for feasibility, excellence, and can be used in libraries at SMK Negeri 1 Padang.

Keywords: *Java Netbeans, Library information Systems.*

ABSTRAK

Julita Rahmi, 2020, Perancangan dan Pembuatan Sistem Informasi Perpustakaan di SMK Negeri 1 Padang Menggunakan Java Netbeans, Sarjana Pendidikan Teknik Informatika Fakultas Keguruan Ilmu dan Pendidikan Universitas Putra Indonesia “YPTK” Padang.

Penelitian ini bertujuan untuk mengetahui Validitas Perancangan dan Pembuatan Sistem Informasi Perpustakaan di SMK Negeri 1 Padang Menggunakan Java Netbeans. Penelitian ini adalah jenis penelitian dan pengembangan (*Research & Development*) dengan desain pengembangan model 4-D. Langkah-langkah pengembangannya adalah sebagai berikut. (1) *Define*, (2) *Design*, (3) *Development* dan (4) *Disseminate*. Subjek uji coba dalam penelitian ini berjumlah 3 orang, dimana dua dosen dan satu pegawai perpustakaan .

Berdasarkan penelitian yang telah dilakukan, maka diperoleh hasil uji validitas oleh para ahli secara keseluruhan penilaian uji validator terhadap sistem informasi perpustakaan di SMK Negeri 1 Padang sebesar 77.83%, sehingga tingkat validitas dapat di interprestasikan cukup valid digunakan. Hasil penilaian uji praktikalitas secara keseluruhan penilaian praktikalitas terhadap sistem informasi perpustakaan di SMK Negeri 1 Padang sebesar 95.31%, sehingga tingkat praktikalitasnya dapat di interprestasikan sangat praktis digunakan.

Hasil penilaian uji efektivitas secara keseluruhan penilaian efektivitas terhadap sistem informasi perpustakaan di SMK Negeri 1 Padang sebesar 97,00% sehingga tingkat efektivitasnya dapat di interprestasikan sangat baik digunakan. Kesimpulannya, berdasarkan penilaian beserta masukan ahli serta hasil dari uji coba lapangan Sistem Informasi Perpustakaan sebagai sebuah sistem informasi sudah teruji kelayakan, keunggulan, dan dapat digunakan pada perpustakaan di SMK Negeri 1 Padang.

Kata kunci : *Java Netbeans, Sistem Informasi perpustakaan.*