

Meilia Intan Sabila. 2026. *Pengembangan Media Pembelajaran Berbasis Website Pada Materi K3LH Kelas X TKJ di SMKN 1 Labang*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing Luluk Mauli Diana, S.Si., M.Pd.

ABSTRAK

Pendidikan abad 21 menuntut pemanfaatan teknologi dalam proses pembelajaran. Namun, pada mata pelajaran Dasar-Dasar Teknik Jaringan Komputer dan Telekomunikasi (TKJ) di SMKN 1 Labang, siswa belum memiliki buku pegangan dan media pembelajaran yang digunakan masih terbatas, khususnya pada materi Keselamatan, Kesehatan Kerja, dan Lingkungan Hidup (K3LH). Padahal, siswa telah memiliki akses terhadap perangkat komputer, internet, dan *smartphone* yang dapat dimanfaatkan dalam pembelajaran berbasis teknologi. Penelitian ini bertujuan untuk mengembangkan media pembelajaran berbasis *website* dan mengetahui tingkat kelayakan media yang dikembangkan. Penelitian ini menggunakan metode *Research and Development* (R&D) dengan model pengembangan 4D yang meliputi *define*, *design*, *development*, dan *disseminate*. Pengujian media dilakukan berdasarkan pengujian ahli materi, ahli media, standar ISO 25010 pada aspek *functional suitability*, *portability*, *performance efficiency*, dan *usability*. Hasil penelitian menunjukkan validasi ahli materi sebesar 96,25% dan ahli media sebesar 90% dengan kategori sangat layak. Pengujian *functional suitability* dan *portability* memperoleh nilai 100%, sedangkan *performance efficiency* memperoleh skor *performance* sebesar 85% dan 98%. Pengujian *usability* memperoleh persentase 86,66%, 89,44%, dan 90,86% dengan kategori sangat layak. Berdasarkan hasil tersebut, media pembelajaran berbasis *website* dinyatakan sangat layak digunakan sebagai media pendukung pembelajaran.

Kata Kunci: K3LH; Media Pembelajaran; Pengembangan; *Website*

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ABSTRACT

21st century education demands the use of technology in the learning process. However, in the Basics of Computer Network and Telecommunications Engineering (TKJ) subject at SMKN 1 Labang, students do not yet have a handbook and the learning media used is still limited, especially regarding Safety, Occupational Health and Environment (K3LH) material. In fact, students already have access to computers, internet and smartphone devices that can be utilized in technology-based learning. This research aims to develop website-based learning media and determine the level of appropriateness of the media developed. This research uses the Research and Development (R&D) method with a 4D development model which includes define, design, development and disseminate. Media testing is carried out based on testing by material experts, media experts, ISO 25010 standards in the aspects of functional suitability, portability, performance efficiency and usability. The research results showed that the validation of material experts was 96.25% and media experts were 90% with a very feasible category. Functional suitability and portability testing obtained a score of 100%, while performance efficiency received a performance score of 85% and 98%. Usability testing obtained percentages of 86.66%, 89.44%, and 90.86% in the very feasible category. Based on these results, website-based learning media was declared very suitable for use as a learning support media.

Keywords: *K3LH; Instructional Media; Development; Website*