

ABSTRAK

Strategi Implementasi Learning Management System dalam Pembelajaran Teaching Factory di Sekolah Menengah Kejuruan

Teknik Komputer dan Jaringan

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Penelitian ini bertujuan untuk menganalisis kondisi implementasi *Learning management system* (LMS), strategi implementasi LMS dalam pembelajaran *Teaching factory*, serta kontribusinya terhadap kesiapan kerja peserta didik pada kompetensi keahlian Teknik Komputer dan Jaringan (TKJ) di SMK YPC Tasikmalaya. Penelitian menggunakan pendekatan kualitatif dengan metode studi kasus. Teknik pengumpulan data dilakukan melalui wawancara, observasi, dan dokumentasi. Informan penelitian terdiri atas guru produktif dan peserta didik yang terlibat dalam pembelajaran *Teaching factory* berbasis LMS. Analisis data dilakukan melalui reduksi data, penyajian data, dan penarikan kesimpulan. Hasil penelitian menunjukkan bahwa implementasi LMS dalam pembelajaran *Teaching factory* telah digunakan untuk mendukung pengelolaan pembelajaran berbasis proyek, seperti distribusi materi, pengelolaan tugas, monitoring progres pekerjaan peserta didik, dokumentasi hasil kerja, dan evaluasi pembelajaran secara digital. Strategi implementasi LMS dilakukan melalui integrasi *workflow* proyek ke dalam sistem digital, penggunaan logbook digital, monitoring pekerjaan peserta didik, serta kolaborasi antar guru dalam menyusun pembelajaran yang relevan dengan kebutuhan dunia industri. Implementasi LMS juga memberikan kontribusi terhadap penguatan kesiapan kerja peserta didik melalui pembiasaan disiplin kerja, tanggung jawab, komunikasi, kolaborasi, serta penguatan keterampilan teknis berbasis proyek. Meskipun demikian, implementasi LMS masih menghadapi kendala pada aspek infrastruktur, kesiapan penggunaan teknologi digital, dan optimalisasi pemanfaatan LMS dalam pembelajaran berbasis proyek. Secara keseluruhan, implementasi LMS dalam pembelajaran *Teaching factory* menunjukkan potensi yang cukup besar dalam mendukung pengembangan pembelajaran vokasi berbasis industri digital.

Kata Kunci: LMS, *Teaching factory*, Kesiapan Kerja, Pembelajaran Vokasi, *Workflow* Industri

ABSTRACT

Implementation Strategy of Learning Management System in Teaching factory Learning at Vocational High School of Computer and Network Engineering

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This study aims to analyze the condition of Learning management system (LMS) implementation, the implementation strategies of LMS in Teaching factory learning, and its contribution to students' work readiness in the Computer and Network Engineering (TKJ) program at SMK YPC Tasikmalaya. This study employed a qualitative approach using a case study method. Data collection techniques included interviews, observations, and documentation. The research participants consisted of productive subject teachers and students involved in LMS-based Teaching factory learning. Data analysis was conducted through data reduction, data presentation, and conclusion drawing. The findings indicate that LMS implementation in Teaching factory learning has been utilized to support project-based learning management, including material distribution, assignment management, monitoring students' work progress, documentation of work results, and digital learning evaluation. The implementation strategy of LMS was carried out through the integration of project workflows into digital systems, the use of digital logbooks, monitoring students' work activities, and collaboration among teachers in designing learning activities relevant to industry needs. LMS implementation also contributed to strengthening students' work readiness through the development of work discipline, responsibility, communication, collaboration, and project-based technical skills. However, LMS implementation still faces challenges related to infrastructure, digital technology readiness, and the optimization of LMS utilization in project-based learning. Overall, the implementation of LMS in Teaching factory learning demonstrates significant potential in supporting the development of industry-based digital vocational education.

Keywords: *LMS, Teaching factory, Work Readiness, Vocational Learning, Industrial Workflow*