

DAFTAR PUSTAKA

- Ahmad, D. A., Anwar, M., & Sugiarti. (2024). Development of a Moodle-based Learning Management System (LMS) on the discovery learning model. *Journal of Chemistry Education Research*, 8(1), 33–40.
- Busetto, L., Wick, W., & Gumbinger, C. (2020). How to use and assess qualitative research methods. *Neurological Research and Practice*, 2, Article 14. <https://doi.org/10.1186/s42466-020-00059-z>
- Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS Quarterly*, 13(3), 319–340. <https://doi.org/10.2307/249008>
- Dewi, A. S., Siswanto, I., Tafakur, T., & Haryana, K. H. K. (2023). Persepsi instruktur industri terhadap pelatihan jarak jauh menggunakan learning management system. *Jurnal Pendidikan Vokasi Otomotif*, 6(1), 49–60. <https://doi.org/10.21831/jpvo.v6i1.66174>
- Fahrudin, I., & Suharno, S. (2025). Developing video-based learning media for Shielded Metal Arc Welding: A 4D model approach. *Jurnal Pendidikan Vokasi*, 15(3). doi: 10.21831/jpv.v15i3.76469.
- Firmansyah, R., & Maulani, A. (2020). Implementasi LMS dalam pembelajaran jarak jauh di Indonesia. *Jurnal Pendidikan Teknologi dan Kejuruan*, 6(1), 15–25. <https://doi.org/10.24036/jptk.v6i1.111540>
- Harjanto, A., Rustandi, A., & Caroline, J. A. (2022). Implementasi model pengembangan 4D dalam mengembangkan media pembelajaran berbasis online pada mata pelajaran pemrograman web di SMK Negeri 7 Samarinda. *Jurnal SIMADA*, 5(2), 1–12. <https://doi.org/10.51574/simada.v5i2.360>
- Hidayat, M., & Prasetyo, B. (2022). Pengaruh penggunaan Moodle dan konten interaktif terhadap motivasi dan hasil belajar. *Jurnal Inovasi Teknologi Pendidikan*, 9(3), 201–212. <http://journal.unj.ac.id/unj/index.php/jtp/article/view/31124>
- Juistha, Y., & Yugopuspito, P. (2023). Pengembangan konten interaktif pada course e-learning berbasis Moodle. *Jurnal Teknologi Pendidikan*, 25(2), 122–134. <https://doi.org/10.21009/jtp.v25i2.32841>

- Kurniawan, A., & Rahayu, S. (2022). Analisis penggunaan LMS untuk pelatihan industri: Studi pada instruktur pelatihan teknikal. *Jurnal Vokasi Industri*, 5(2), 45–55. <https://doi.org/10.51804/jvi.v5i2.1403>
- Kurniawati, K., & Suartini, T. (2025). Learning management system utilization and perceived training benefits among vocational teachers. *Jurnal Pendidikan Vokasi*, 15(1), 97–106. <https://doi.org/10.21831/jpv.v15i1.81270>
- Mahabul, F., Subhan, M., Pramadita, O. I., Fahriza, A., & Ekabudi, A. (2025). Pemanfaatan *Learning Management System* (LMS) untuk meningkatkan efektivitas pembelajaran. *Jurnal Teknologi Pendidikan dan Pembelajaran*, 3(1), 27–34. <https://jurnal.kopusindo.com/index.php/jtpp/article/view/1003>
- Mahande, R. D., Darmawan, F. A., & Malago, J. D. (2021). Metacognitive skill assessment model through the blended learning management system in vocational education. *Jurnal Pendidikan Vokasi*, 11(1), 1–13. <https://doi.org/10.21831/jpv.v11i1.36912>
- Markaki, A., Malhotra, S., Billings, R., & Theus, L. (2021). Training needs assessment: Tool utilization and global impact. *BMC Medical Education*, 21, Article 310. <https://doi.org/10.1186/s12909-021-02748-y>
- Marshall, G. (2005). The purpose, design and administration of a questionnaire for data collection. *Radiography*, 11(2), 131–136. <https://doi.org/10.1016/j.radi.2004.09.002>
- Narimawati, U. (2010). Metodologi penelitian: Dasar penyusun penelitian ekonomi. Bandung: Agung Media.
- Pratama, A. (2021). Efektivitas pembelajaran daring berbasis *Learning Management System* di Indonesia. *Jurnal Pendidikan Indonesia*, 10(1), 65–75. <https://doi.org/10.23887/jpi-undiksha.v10i1.28965>
- Pratama, E. R. (2018). *Pengembangan media pembelajaran Learning Management System (LMS) Moodle pada materi bangun ruang* (Skripsi sarjana, Universitas Islam Negeri Raden Intan Lampung). UIN Raden Intan Repository. <https://repository.radenintan.ac.id/8520/>
- Pribadi, B. A. (2016). *Desain dan pengembangan program pelatihan berbasis kompetensi*. Kencana.

- Richey, R. C., & Klein, J. D. (2005). Developmental research methods: Creating knowledge from instructional design and development practice. *Journal of Computing in Higher Education*, 16, 23–38. doi:[10.1007/BF02961473](https://doi.org/10.1007/BF02961473).
- Rizal, F., Wardina, U. V., & Ambiyar, A. (2022). Evaluation of e-learning at the Faculty of Engineering, Universitas Negeri Padang. *Jurnal Pendidikan Teknologi Kejuruan*, 5(1), 23–27. <https://doi.org/10.24036/jptk.v5i1.26023>
- Robert, N., & Mori, N. (2025). Effects of training needs assessment in enhancing employees' skills and firm performance. *Journal of Work-Applied Management*, 17(1), 82–98. <https://doi.org/10.1108/JWAM-05-2023-0046>
- Safiratuljannah, A. P., Asrori, I., & Ahsanuddin, M. (2025). Moodle-based Arabic sentence writing materials: A Hannafin & Peck development study. *Jurnal Penelitian Ilmu Pendidikan*, 18(1). <https://doi.org/10.21831/jpip.v18i1.92663>
- Shintya, R. (2024). *Perancangan Learning Management System (LMS) berbasis web menggunakan Moodle pada Fakultas Tarbiyah UIN Ar-Raniry* (Skripsi sarjana, Universitas Islam Negeri Ar-Raniry). Repository UIN Ar-Raniry. <https://repository.ar-raniry.ac.id/id/eprint/39411>
- Siswanto, I., Surjono, H. D., Indartono, S., Sofyan, H., Arifin, Z., Hardianto, D., & Dewi, A. S. (2024). Prototipe learning management system untuk mendukung pengembangan regional training center PT SGMW Sales Indonesia. *Jurnal Pendidikan Vokasi Otomotif*, 6(2), 125–134. <https://doi.org/10.21831/jpvo.v6i2.73247>
- Sitanggang, L. O., Asra, & Mawardi. (2022). Flipped classroom learning system based on guided inquiry using Moodle on colloid. *PALAPA: Jurnal Studi Keislaman dan Ilmu Pendidikan*, 10(2), 278–291. <https://doi.org/10.36088/palapa.v10i2.2116>
- Sugiyono. (2017). Metode penelitian kuantitatif, kualitatif dan R&D. *Alfabeta*.
- Sukmawalia, S., Karya, K., Milka, M., & Marhum, N. K. J. (2022). Pengembangan *Learning Management System (LMS) SiCeria* (Siswa Cerdas Indonesia). Penerbit NEM.
- Sumardi, D., Suryani, N., & Musadad, A. A. (2021). Website-based Learning Management System (LMS) as a tool for learning in the COVID-19

pandemic period for junior high schools. *Journal of Education Technology*, 5(3), 346–355. doi:[10.23887/jet.v5i3.38371](https://doi.org/10.23887/jet.v5i3.38371)

Thiagarajan, S., Semmel, D. S., & Semmel, M. I. (1974). *Instructional development for training teachers of exceptional children: A sourcebook*. Leadership Training Institute/Special Education, University of Minnesota.

Tiastuti, E. R., Maruti, E. S., Budiarti, M., & Putri, W. S. (2024). Efektivitas penerapan *Learning Management System* berbasis Moodle terhadap partisipasi belajar siswa MIN 01 Kota Madiun. *Pendekar: Jurnal Pendidikan Berkarakter*, 7(2), 181–190. <https://doi.org/10.31764/pendekar.v7i2.30764>

Verawadina, U., Jalinus, N., Krismadinata, K., Nurcahyo, R. W., & Simeru, A. (2020). Needs assessment of e-learning vocational education. *International Journal of Innovation, Creativity and Change*, 11(4), 262–274. https://www.ijicc.net/images/vol11iss4/11421_Verawadina_2020_E_R.pdf

Zainil, M., Helsa, Y., Sutarsih, C., Nisa, S., Sartono, S., & Suparman, S. (2024). A needs analysis on the utilization of learning management systems as blended learning media in elementary school. *Journal of Education and e-Learning Research*, 11(1), 56–65. <https://doi.org/10.20448/jeelr.v11i1.5310>