

DAFTAR PUSTAKA

- [1] W. Leal Filho *et al.*, “Digital transformation and sustainable development in higher education in a post-pandemic world,” *International Journal of Sustainable Development and World Ecology*, vol. 31, no. 1, pp. 108–123, 2024.
- [2] Kementerian Komunikasi dan Informatika Republik Indonesia. (2024) Satu dekade pembangunan digital indonesia 2014-2024. [Online]. Available: <https://aptika.kominfo.go.id/wp-content/uploads/2024/10/SATU-DEKADE-PEMBANGUNAN-DIGITAL-INDONESIA.pdf>
- [3] H. Liao, Q. Zhang, L. Yang, and Y. Fei, “Investigating relationships among regulated learning, teaching presence and student engagement in blended learning: An experience sampling analysis,” *Education and Information Technologies*, vol. 28, no. 10, pp. 12 997–13 025, Oct 2023.
- [4] E. De Nito, T. A. Rita Gentile, T. Köhler, M. Misuraca, and R. Reina, “E-learning experiences in tertiary education: patterns and trends in research over the last 20 years,” *Studies in Higher Education*, vol. 48, no. 4, pp. 595–615, 2023.
- [5] A. M. Nortvig, A. K. Petersen, and S. H. Balle, “A literature review of the factors influencing e-learning and blended learning in relation to learning outcome, student satisfaction and engagement,” *Electronic Journal of e-Learning*, vol. 16, no. 1, pp. 46–55, 2018. [Online]. Available: www.ejel.org
- [6] H. P. Yueh and S. Hsu, “Designing a learning management system to support instruction,” *Communications of the ACM*, vol. 51, no. 4, pp. 59–63, Apr 2008.
- [7] M. F. Rashida, “Learning management system (lms) in higher education institutions,” 2018.
- [8] A. Kumar *et al.*, “Blended learning tools and practices: A comprehensive analysis,” *IEEE Access*, vol. 9, pp. 85 151–85 197, 2021.
- [9] S. S. Kusumawardani. (2023, Nov) E-learning dan transformasi pendidikan tinggi menuju indonesia emas 2045. [Online]. Available: <https://dgb.ugm.ac.id/wp-content/uploads/sites/280/2023/11/Naskah-Pidato-Pengukuhan-Sri-Suning.pdf>
- [10] K. A. Dahleez, A. A. El-Saleh, A. M. Al Alawi, and F. Abdelmuniem Abdelfattah, “Higher education student engagement in times of pandemic: the role of e-learning system usability and teacher behavior,” *International Journal of Educational Management*, vol. 35, no. 6, pp. 1312–1329, Oct 2021.
- [11] J. A. Fredricks, P. C. Blumenfeld, and A. H. Paris, “School engagement: Potential of the concept, state of the evidence,” *Review of educational research*, vol. 74, no. 1, pp. 59–109, 2004.
- [12] L. M. Nkomo and M. Nat, “Student engagement patterns in a blended learning environment: An educational data mining approach,” *TechTrends*, vol. 65, no. 5, pp. 808–817, 2021.



- [13] R. Fitron, “Analisis user experience pada e-learning model mooc menggunakan user-centered metrics (studi kasus elok),” 2020.
- [14] D. Marikyan and S. Papagiannidis. (2024) Technology acceptance model. [Online]. Available: <https://open.ncl.ac.uk/theories/1/technology-acceptance-model/>
- [15] S. Ghazal, H. Al-Samarraie, and H. Aldowah, “‘i am still learning’: Modeling lms critical success factors for promoting students’ experience and satisfaction in a blended learning environment,” *IEEE Access*, vol. 6, pp. 77 179–77 201, 2018.
- [16] T. K. F. Chiu, “Digital support for student engagement in blended learning based on self-determination theory,” *Computers in Human Behavior*, vol. 124, Nov 2021.
- [17] B. Bervell and V. Arkorful, “Lms-enabled blended learning utilization in distance tertiary education: establishing the relationships among facilitating conditions, voluntariness of use and use behaviour,” *International Journal of Educational Technology in Higher Education*, vol. 17, no. 1, Dec 2020.
- [18] R. S. Baragash and H. Al-Samarraie, “Blended learning: Investigating the influence of engagement in multiple learning delivery modes on students’ performance,” *Telematics and Informatics*, vol. 35, no. 7, pp. 2082–2098, Oct 2018.
- [19] Y. Wei, J. Wang, H. H. Yang, X. Wang, and J. Cheng, “An investigation of academic self-efficacy, intrinsic motivation and connected classroom climate on college students’ engagement in blended learning.”
- [20] S. Warren and A. Barton, “Elevating engineering education via improved pedagogically based course structures. background and literature review.”
- [21] F. H. M. Asri, D. Singh, Z. Mansor, and H. Norman, “A review of cross-cultural design to improve user engagement for learning management system,” *KSII Transactions on Internet and Information Systems*, vol. 18, no. 2, pp. 397–419, Feb 2024.
- [22] W. R. Watson and S. L. Watson, “An argument for clarity: What are learning management systems, what are they not, and what should they become?” *TechTrends*, vol. 51, pp. 28–34, 2007.
- [23] A. Bozkurt and R. C. Sharma, “In pursuit of the right mix: Blended learning for augmenting, enhancing, and enriching flexibility,” *Asian Journal of Distance Education*, vol. 16, no. 2, 2021.
- [24] ISO, “Iso 9241-11:2018(en) ergonomics of human-system interaction — part 11: Usability: Definitions and concepts,” 2018. [Online]. Available: <https://www.iso.org/obp/ui/#iso:std:iso:9241:-11:ed-2:v1:en>
- [25] J. Nielsen *et al.*, “Usability 101: Introduction to usability (2012),” *URL: http://www.nngroup.com/articles/usability-101-introduction-to-usability/* [Accessed November 2016], vol. 9, p. 35, 2012.
- [26] P. Vlachogianni and N. Tselios, “Perceived usability evaluation of educational technology using the system usability scale (sus): A systematic review,” *Journal of Research on Technology in Education*, vol. 54, no. 3, pp. 392–409, 2022.



- [27] F. D. Davis *et al.*, “Technology acceptance model: Tam,” *Al-Suqri, MN, Al-Aufi, AS: Information Seeking Behavior and Technology Adoption*, vol. 205, no. 219, p. 5, 1989.
- [28] M. I. Mohamed Riyath and U. L. Muhammed Rijah, “Adoption of a learning management system among educators of advanced technological institutes in sri lanka,” *Asian Association of Open Universities Journal*, vol. 17, no. 2, pp. 161–177, 2022.
- [29] J. R. Lewis, “The system usability scale: past, present, and future,” *International Journal of Human–Computer Interaction*, vol. 34, no. 7, pp. 577–590, 2018.
- [30] J. Brooke *et al.*, “Sus-a quick and dirty usability scale,” *Usability evaluation in industry*, vol. 189, no. 194, pp. 4–7, 1996.
- [31] A. Bangor, P. T. Kortum, and J. T. Miller, “An empirical evaluation of the system usability scale,” *Intl. Journal of Human–Computer Interaction*, vol. 24, no. 6, pp. 574–594, 2008.
- [32] J. Sauro, “10 things to know about the system usability scale (sus),” *MeasuringU*, 2013. [Online]. Available: <https://measuringu.com/10-things-sus/>
- [33] A. Revythi and N. Tselios, “Extension of technology acceptance model by using system usability scale to assess behavioral intention to use e-learning,” *Education and Information technologies*, vol. 24, no. 4, pp. 2341–2355, 2019.
- [34] J. R. Lewis and J. Sauro, “Item benchmarks for the system usability scale.” *Journal of Usability studies*, vol. 13, no. 3, 2018.
- [35] M. Koo and S.-W. Yang, “Likert-type scale,” *Encyclopedia*, vol. 5, no. 1, p. 18, 2025.
- [36] M. D. Dixson, “Measuring student engagement in the online course: The online student engagement scale (ose).” *Online Learning*, vol. 19, no. 4, p. n4, 2015.
- [37] E. A. Linnenbrink and P. R. Pintrich, “The role of self-efficacy beliefs instudent engagement and learning inthe classroom,” *Reading & Writing Quarterly*, vol. 19, no. 2, pp. 119–137, 2003.
- [38] J. Nielsen, “Enhancing the explanatory power of usability heuristics,” in *Proceedings of the SIGCHI conference on Human Factors in Computing Systems*, 1994, pp. 152–158.
- [39] F. D. Davis, R. P. Bagozzi, and P. R. Warshaw, “User acceptance of computer technology: A comparison of two theoretical models,” *Management science*, vol. 35, no. 8, pp. 982–1003, 1989.
- [40] C. R. Graham, “Blended learning systems,” *The handbook of blended learning: Global perspectives, local designs*, vol. 1, pp. 3–21, 2006.
- [41] D. Al-Fraihat, “Evaluating the success of e-learning systems: The case of moodle lms at the university of warwick,” Ph.D. dissertation, University of Warwick, 2019.



- [42] A. I. Almusharraf, "An investigation of university students' perceptions of learning management systems: Insights for enhancing usability and engagement," *Sustainability*, vol. 16, no. 22, p. 10037, 2024.
- [43] R. M. Ryan and E. L. Deci, "Intrinsic and extrinsic motivation from a self-determination theory perspective: Definitions, theory, practices, and future directions," *Contemporary educational psychology*, vol. 61, p. 101860, 2020.
- [44] R. Batra and O. T. Ahtola, "Measuring the hedonic and utilitarian sources of consumer attitudes," *Marketing letters*, vol. 2, pp. 159–170, 1991.
- [45] V. Braun and V. Clarke, "Using thematic analysis in psychology," *Qualitative Research in Psychology*, vol. 3, no. 2, pp. 77–101, 2006.
- [46] J. Nielsen, *Usability Engineering*, 1993.
- [47] J. W. Creswell and V. L. P. Clark, *Designing and conducting mixed methods research*. Sage publications, 2017.
- [48] L. A. Palinkas, S. M. Horwitz, C. A. Green, J. P. Wisdom, N. Duan, and K. Hoagwood, "Purposeful sampling for qualitative data collection and analysis in mixed method implementation research," *Administration and policy in mental health and mental health services research*, vol. 42, pp. 533–544, 2015.
- [49] C. Andrade, "The inconvenient truth about convenience and purposive samples," *Indian journal of psychological medicine*, vol. 43, no. 1, pp. 86–88, 2021.
- [50] S. G. Kwak and J. H. Kim, "Central limit theorem: the cornerstone of modern statistics," *Korean journal of anesthesiology*, vol. 70, no. 2, p. 144, 2017.
- [51] P. Kortum and S. C. Peres, "The relationship between system effectiveness and subjective usability scores using the system usability scale," *International Journal of Human-Computer Interaction*, vol. 30, no. 7, pp. 575–584, 2014.
- [52] Z. Sharfina and H. B. Santoso, "An Indonesian adaptation of the system usability scale (sus)," in *2016 International Conference on Advanced Computer Science and Information Systems (ICACSIS)*, Malang, Indonesia, 2016, pp. 145–148.
- [53] R. S. Baker, K. Yacef *et al.*, "The state of educational data mining in 2009: A review and future visions," *Journal of educational data mining*, vol. 1, no. 1, pp. 3–17, 2009.
- [54] V. Kovanović, D. Gašević, S. Joksimović, M. Hatala, and O. Adesope, "Analytics of communities of inquiry: Effects of learning technology use on cognitive presence in asynchronous online discussions," *The Internet and Higher Education*, vol. 27, pp. 74–89, 2015.
- [55] R. Singh, S. K. Singh, and N. Mishra, "Influence of e-learning on the students' of higher education in the digital era: A systematic literature review," *Education and Information Technologies*, vol. 29, no. 15, pp. 20 201–20 221, 2024.
- [56] B. Chen, K. Bastedo, and W. Howard, "Exploring design elements for online stem courses: Active learning, engagement & assessment design." *Online Learning*, vol. 22, no. 2, pp. 59–75, 2018.