

DAFTAR PUSTAKA

- [1] A. Szymkowiak, B. Melović, M. Dabić, K. Jeganathan, and G. S. Kundi, "Information technology and Gen Z: The role of teachers, the internet, and technology in the education of young people," *Technol. Soc.*, vol. 65, no. March, 2021.
- [2] W. J. Triplett, "The Role of Technology in Promoting Diversity and Inclusion," *Cybersecurity Innov. Technol. J.*, vol. 1, no. 1, pp. 37–41, 2023, doi: 10.53889/citj.v1i1.306.
- [3] S. Bulut and D. Maraba, "Generation Z and its Perception of Work through Habits, Motivations, Expectations Preferences, and Work Ethics," *Psychol. Psychother. Res. Study*, vol. 4, no. 4, 2021.
- [4] H. Thomas, "Powerful knowledge, technology and education in the future-focused good society," *Technol. Soc.*, vol. 52, pp. 54–59, 2017.
- [5] D. Cenic, J. Petrović, and S. Cenić, "The Most Important Motivation Factors for Knowledge Acquisition and Successful Learning," *Facta Univ. Ser. Teaching, Learn. Teach. Educ.*, vol. 2, p. 149, 2019.
- [6] R. M. Ryan, *The Oxford Handbook of Human Motivation*. OUP USA, 2012.
- [7] D. Schieweger and C. Ladwig, "Reaching and Retaining the Next Generation: Adapting to the Expectations of Gen Z in the Classroom," *Inf. Syst. Educ. J.*, vol. 16, no. 3, pp. 45–54, 2018.
- [8] M. Hernandez-de-Menendez, C. A. Escobar Díaz, and R. Morales-Menendez, "Educational experiences with Generation Z," *Int. J. Interact. Des. Manuf.*, vol. 14, no. 3, pp. 847–859, 2020.
- [9] E. J. Cilliers, "The Challenge of Teaching Generation Z," *PEOPLE Int. J. Soc. Sci.*, vol. 3, no. 1, pp. 188–198, 2017.
- [10] M. A. Afshar, A. Jafari, I. Lung, F. Heshmati, F. Movahedzadeh, and A. H. Cherif, "Instructional Strategies for Motivating and Engraining Generation Z Students in Their Own Learning Process," *J. Educ. Pract.*, vol. 10, no. 3, pp. 1–20, 2019.
- [11] J. Elen, "'Instructional disobedience': a largely neglected phenomenon deserving more systematic research attention," *Educ. Technol. Res. Dev.*, vol. 68, no. 5, pp. 2021–2032, 2020.
- [12] R. E. Saputro, S. Salam, M. H. Zakaria, and T. Anwar, "A gamification framework to enhance students' intrinsic motivation on MOOC," *Telkomnika (Telecommunication Comput. Electron. Control.)*, vol. 17, no. 1, pp. 170–178, 2019.
- [13] V. Handayani, F. Lukman Budiono, D. Rosyada, R. Nisa Sofia Amriza, Zulkifli, and S. Ummi Masrurroh, "Gamified Learning Platform Analysis for

Designing a Gamification-Based UI / UX of E-learning Applications: A Systematic Literature Review,” in *2020 8th International Conference on Cyber and IT Service Management, CITSM 2020*, 2020.

- [14] M. Saxena and D. K. Mishra, “Gamification and gen Z in higher education: A systematic review of literature,” *Int. J. Inf. Commun. Technol. Educ.*, vol. 17, no. 4, pp. 1–22, 2021.
- [15] A. C. Ionica and M. Leba, “Gamification & Research – Partnership for Innovation,” *Procedia Econ. Financ.*, vol. 23, no. October 2014, pp. 671–676, 2015.
- [16] I. Rahmi, T. Rimenda, and T. D. Ariyanti, “Gamification as an alternative to increase students’ motivation: a scoping review,” *J. Educ. Learn.*, vol. 19, no. 2, pp. 1125–1133, 2025.
- [17] Y.-K. Chou, *Actionable Gamification Beyond Points, Badges, and Leaderboards*. 2019.
- [18] S. Dwi Putra and V. Yasin, “MDA Framework Approach for Gamification-Based Elementary Mathematics Learning Design,” *Int. J. Eng. Sci. Inf. Technol.*, vol. 1, no. 3, pp. 35–39, 2021.
- [19] A. Saggah, A. S. Atkins, and R. J. Campion, “A Review of Gamification Design Frameworks in Education,” in *4th International Conference on Intelligent Computing in Data Sciences, ICDS 2020*, 2020.
- [20] A. Mora, D. Riera, C. Gonzalez, and J. Arnedo-Moreno, “A Literature Review of Gamification Design Frameworks,” in *VS-Games 2015 - 7th International Conference on Games and Virtual Worlds for Serious Applications*, 2015.
- [21] C. Gackenheimer, *Introduction to React*. 2015.
- [22] J. Högberg, J. Hamari, and E. Wästlund, *Gameful Experience Questionnaire (GAMEFULQUEST): an instrument for measuring the perceived gamefulness of system use*, vol. 29, no. 3. Springer Netherlands, 2019.
- [23] U. Rehman, A. Z. Abbasi, D. H. Ting, M. Hassan, and N. Khair, “Exploring the Impact of Gamified Experiences on User Engagement in Fitness Apps: A GAMEFULQUEST Perspective,” *IEEE Trans. Eng. Manag.*, vol. 71, pp. 3613–3628, 2024.
- [24] P. A. Oswald and D. Gunawan, “Avia Saga : A Gamified Mobile-Based Learning Management System,” *IJNMT (International J. New Media Technol.*, vol. 11, no. 1, pp. 35–42, 2024.
- [25] A. M. Barua and S. S. Bharali, “Gamification and its Challenges in e-learning: a case study of computer science learners in KKHSOU,” *Asian Assoc. Open Univ. J.*, vol. 18, no. 3, pp. 233–245, 2023.
- [26] F. A. Fajri, R. K. Haribowo P., N. Amalia, and D. Natasari, “Gamification

- in e-learning: The mitigation role in technostress,” *Int. J. Eval. Res. Educ.*, vol. 10, no. 2, pp. 606–614, 2021.
- [27] S. Rebelo and P. Isaias, “Gamification As An Engagement Tool in E-learning Websites,” *J. Inf. Technoloy Educ. Res.*, vol. 19, pp. 833–854, 2020.
- [28] T. Sulispera and M. Recard, “Octalysis Gamification Framework for Enhancing Students’ Engagement in Language Learning,” *Dialekt. J. Pendidik. Bhs. Ingg.*, vol. 8, no. 2, pp. 103–128, 2021.
- [29] S. R. Sriratnasari, G. Wang, and E. R. Kaburuan, “Applying Innovative Learning Management System (LMS) with Gamification Framework,” in *Proceedings - 2019 International Seminar on Application for Technology of Information and Communication: Industry 4.0: Retrospect, Prospect, and Challenges, iSemantic 2019*, 2019, pp. 569–573.
- [30] M. W. Fathurrahman and A. Herdiani, “Pemanfaatan Gamifikasi Learning Managament System Dengan MDA Framework Berdasarkan ARCS Model,” *e-Proceeding Eng.*, vol. 11, no. 4, pp. 4545–4557, 2024.
- [31] G. P. Kusuma, E. K. Wigati, Y. Utomo, and L. K. Putera Suryapranata, “Analysis of Gamification Models in Education Using MDA Framework,” *Procedia Comput. Sci.*, vol. 135, pp. 385–392, 2018.
- [32] F. Marisa, S. S. Syed Ahmad, Z. I. Mohd Yusoh, A. L. Maukar, R. D. Marcus, and A. A. Widodo, “Evaluation of Student Core Drives on e-Learning during the Covid-19 with Octalysis Gamification Framework,” *Int. J. Adv. Comput. Sci. Appl.*, vol. 11, no. 11, pp. 104–116, 2020.
- [33] A. J. Irawan, F. A. T. Tobing, and E. E. Surbakti, “Implementation of Gamification Octalysis Method at Design and Build a React Native Framework Learning Application,” in *Proceedings of 2021 6th International Conference on New Media Studies, CONMEDIA 2021*, 2021, no. October, pp. 118–123.
- [34] M. I. Syafi’i, “Analisis Konseptual Dasar Ilmu Pendidikan dalam Teori Pembelajaran Modern,” *J. Ilmu Pendidik. Sos.*, vol. 1, no. 3, pp. 117–122, 2023.
- [35] P. Samaranayake, “Student-centered learning with technology,” 2020.
- [36] C. Dichev, D. Dicheva, and K. Irwin, “Towards Activity-Centered Gamification Design,” in *TALE 2019 - 2019 IEEE International Conference on Engineering, Technology and Education*, 2019, no. December.
- [37] E. Ratinho and C. Martins, “The role of gamified learning strategies in student’s motivation in high school and higher education: A systematic review,” *Heliyon*, vol. 9, no. 8, 2023.
- [38] Y. G. Lin, W. J. McKeachie, and Y. C. Kim, “College student intrinsic and/or extrinsic motivation and learning,” *Learn. Individ. Differ.*, vol. 13, no. 3, pp.

251–258, 2003.

- [39] A. Widiyono, “Pengaruh Penggunaan LMS dan Aplikasi Telegram terhadap Aktivitas Belajar,” *J. Penelit. Ilmu Pendidik.*, vol. 14, no. 1, pp. 91–101, 2021.
- [40] P. Al Zukri, E. Asynari, and N. Jatmiko, “Standar Kelengkapan Fitur E-Learning Supply Chain Management Pada Produk Backlog Menggunakan Metodologi Scrum,” *Sistemasi*, vol. 9, no. 3, p. 419, 2020.
- [41] E. P. Do Carmo, A. C. T. Klock, E. H. T. De Oliveira, and I. Gasparini, “A study on the impact of gamification on students’ behavior and performance through learning paths,” in *Proceedings - IEEE 20th International Conference on Advanced Learning Technologies, ICALT 2020*, 2020, pp. 84–86.
- [42] N. Z. Legaki, N. Xi, J. Hamari, K. Karpouzis, and V. Assimakopoulos, “The effect of *Challenge*-based gamification on learning: An experiment in the context of statistics education,” *Int. J. Hum. Comput. Stud.*, vol. 144, no. November 2019, 2020.
- [43] Yanfi, Y. Udjaja, and A. C. Sari, “A Gamification Interactive Typing for Primary School Visually Impaired Children in Indonesia,” in *Procedia Computer Science*, 2017, vol. 116, pp. 638–644.
- [44] Q. Aini, T. Hariguna, P. Oktavia, H. Putra, and U. Rahardja, “Understanding How Gamification Influences Behaviour in Education,” *Int. J. Adv. Trends Comput. Sci. Eng.*, vol. 8, no. 1, pp. 1–6, 2019.
- [45] D. E. Subroto, Supriandi, R. Wirawan, and A. Y. Rukmana, “Implementasi Teknologi dalam Pembelajaran di Era Digital: Tantangan dan Peluang bagi Dunia Pendidikan di Indonesia,” *J. Pendidik. West Sci.*, vol. 01, no. 07, pp. 473–480, 2023.
- [46] R. Gatautis *et al.*, *Gamification and Consumer Engagement*. 2021.
- [47] H. Mike and W. Bret, *Gamification for product excellence: Make your product stand out with higher user engagement, retention, and innovatio*. Packt Publishing Ltd, 2023.
- [48] S. A. Kocadere and Ş. Çağlar, “The design and implementation of a gamified assessment,” *J. E-Learning Knowl. Soc.*, vol. 11, no. 3, pp. 85–99, 2015.
- [49] M. Gamarra *et al.*, *SE-Coins System: Software for Supporting Gamification-Based Educational Processes*, vol. 14164 LNCS. Springer Nature Switzerland, 2023.
- [50] G. P. Kusuma, E. K. Wigati, Y. Utomo, and L. K. Putera Suryapranata, “Analysis of Gamification Models in Education Using MDA Framework,” in *Procedia Computer Science*, 2018, vol. 135, pp. 385–392.
- [51] O. Borrás-Gené, M. Martínez-Núñez, and L. Martín-Fernández, “Enhancing

- fun through gamification to improve engagement in MOOC,” *Informatics*, vol. 6, no. 3, pp. 1–19, 2019.
- [52] R. Junior and F. Silva, “Redefining the mda framework—the pursuit of a game design ontology,” *Inf.*, vol. 12, no. 10, pp. 1–19, 2021, doi: 10.3390/info12100395.
- [53] J. Meyer, *The Essential Guide to HTML5*. 2023.
- [54] A. A. Mohd Nordin, R. Latih, and N. M. Ali, “Software Development Productivity Model: Validation through Expert Review,” in *Proceedings of the International Conference on Electrical Engineering and Informatics*, 2021, no. October, pp. 1–6.
- [55] A. H. Suasapha, “Skala Likert Untuk Penelitian Pariwisata; Beberapa Catatan Untuk Menyusunnya Dengan Baik,” *J. Kepariwisataan*, vol. 19, no. 1, pp. 26–37, 2020.
- [56] Sudjana, *Metode Statistika*. Bandung: Tarsito, 2002.
- [57] Sugiyono, “Statistika Untuk Penelitian.” Alfabeta, Bandung, p. 389, 2017.
- [58] D. Firmansyah and Dede, “Teknik Pengambilan Sampel Umum dalam Metodologi Penelitian: Literature Review,” *J. Ilm. Pendidik. Holistik*, vol. 1, no. 2, pp. 85–114, 2022.
- [59] M. I. Rosyadi and Suyatiningsih, “Korelasi Antara Persepsi Pengelolaan Dan Layanan Pustaka Dengan Motivasi Belajar Di Digital Library UNY,” *J. EPISTEMA*, vol. 1, no. 1, pp. 1–23, 2020.
- [60] N. ERYILMAZ, “Validity Evidence for the Perceptions of Secondary School Students of ‘What Research is’ Scale and Measurement Invariance,” *Int. J. Assess. Tools Educ.*, vol. 8, no. 3, pp. 684–703, 2021.
- [61] P. Genevès *et al.*, “On the Analysis of Cascading Style Sheets,” pp. 809–818, 2012.
- [62] N. Dixit, V. Shrivastava, A. Pandey, and E. R. Sharma, “Revolutionizing Web Design with Tailwind CSS: A Comprehensive Exploration,” *Int. J. Res. Publ. Rev.*, vol. 5, no. 5, pp. 4198–4204, 2024, [Online]. Available: www.ijrpr.com
- [63] W. L. Space, *Research Methods for Business: A Skill-Building Approach*, vol. 34, no. 7. Chichester, West Sussex, United Kingdom : John Wiley & Sons, 2016. doi: 10.1108/lodj-06-2013-0079.