















- [15] L. Closs, M. Mahat, and W. Imms, "Learning environments' influence on students' learning experience in an Australian Faculty of Business and Economics," *Learning Environments Research*, vol. 25, no. 1, pp. 271–285, Mar. 2021, doi: 10.1007/s10984-021-09361-2.
- [16] T. Valtonen et al., "Learning environments preferred by university students: a shift toward informal and flexible learning environments," *Learning Environments Research*, vol. 24, no. 3, pp. 371–388, Nov. 2020, doi: 10.1007/s10984-020-09339-6.
- [17] Marcus Foth, "Participatory Action Research for Community Engagement," In *Civic Media Technology, Design, Practice*, 2016.
- [18] V. Revenko, "Education and Music Culture in the Context of Web 2.0," *International Journal of Emerging Technologies in Learning (IJET)*, vol. 16, no. 10, p. 96, May 2021, doi:10.3991/ijet.v16i10.19693.
- [19] S. Yan (闫守轩) and Y. Yang (杨运), "Education Informatization 2.0 in China: Motivation, Framework, and Vision," *ECNU Review of Education*, vol. 4, no. 2, pp. 410–428, Oct. 2020, doi:10.1177/2096531120944929.
- [20] R. Qassrawi, "Education 3.0 Underpinned with the Heutagogical Approach for a Smooth Shift to Distance Learning in Higher Education," *International Journal of Education and Practice*, vol. 11, no. 1, pp. 1–13, Dec. 2022, doi: 10.18488/61.v11i1.3238.
- [21] A. M. Nidhom, A. B. N. R. Putra, A. A. Smaragdina, G. D. K. Ningrum, and J. M. Yunos, "Integration of Augmented Reality into MOOC's in Vocational Education to Support Education 3.0," *International Journal of Interactive Mobile Technologies (IJIM)*, vol. 16, no. 03, pp. 20–31, Feb. 2022, doi: 10.3991/ijim.v16i03.28961.
- [22] S. Chakraborty, Y. Gonzalez-Triana, J. Mendoza, and D. Galatro, "Insights on mapping Industry 4.0 and Education 4.0," *Frontiers in Education*, vol. 8, Apr. 2023, doi: 10.3389/feduc.2023.1150190.
- [23] J. Miranda et al., "The core components of education 4.0 in higher education: Three case studies in engineering education," *Computers & Electrical Engineering*, vol. 93, p. 107278, Jul. 2021, doi:10.1016/j.compeleceng.2021.107278.
- [24] P. Blessinger, A. Samarji, And H. R. Rozada, "Education 4.0 And Its Key Role in Sustainable Development," *University World News*.
- [25] D. Gürdür Broo, O. Kaynak, and S. M. Sait, "Rethinking engineering education at the age of industry 5.0," *Journal of Industrial Information Integration*, vol. 25, p. 100311, Jan. 2022, doi:10.1016/j.jii.2021.100311.
- [26] H. Mansur, A. H. Utama, M. H. Mohd Yasin, N. P. Sari, K. A. Jamaludin, and F. Pinandhita, "Development of Inclusive Education Learning Design in the Era of Society 5.0," *Social Sciences*, vol. 12, no. 1, p. 35, Jan. 2023, doi: 10.3390/socsci12010035.
- [27] R. Supinah and J. Soebagyo, "Analisis Bibliometrik Terhadap Tren Penggunaan ICT Pada Pembelajaran Matematika," *JNPM (Jurnal Nasional Pendidikan Matematika)*, vol. 6, no. 2, p. 276, Jun. 2022, doi:10.33603/jnpm.v6i2.6153.
- [28] H. Jiye, "Exploration on Path and Method of Information-based Teaching in Applied Undergraduate Institutions under the Vision of Innovation-driven Development Strategy," *2021 2nd International Conference on Education, Knowledge and Information Management (ICEKIM)*, pp. 710–716, Jan. 2021, doi:10.1109/icekim52309.2021.00161.
- [29] R. Selvaganesan and J. Jayachithra, "Effectiveness of Multimedia Strategies in Learning Science," *Turkish Online Journal of Qualitative Inquiry (Tojqi)*, Vol. 12, No. 8, 2021.
- [30] S. Caldwell, C. Hendrickson, and L. R. Rilett, "It Is Time to Recognize Communications as a Mode of Transportation," *Journal of Transportation Engineering, Part A: Systems*, vol. 147, no. 7, Jul. 2021, doi: 10.1061/jtepbs.0000540.
- [31] G. Yu. Peshkova and A. Yu. Samarina, "Digital Economy and Recruitment Potential: Strategical Interconnection and Prospects," *The Education and science journal*, vol. 20, no. 10, pp. 50–75, Dec. 2018, doi: 10.17853/1994-5639-2018-10-50-75.
- [32] M. H. Nuryadi and P. Widiatmaka, "Strengthening civic literacy among students through digital literacy in society 5.0," *Journal of Education and Learning (EduLearn)*, vol. 17, no. 2, pp. 215–220, May 2023, doi: 10.11591/edulearn.v17i2.20746.
- [33] S. Byrne, "Making Social Media More Accessible to People with Disabilities," *3playmedia*.
- [34] B. Christian, C. Salvador, and G. Christian, "Virtual Reality (VR) in Superior Education Distance Learning: A Systematic Literature Review," *JOIV : International Journal on Informatics Visualization*, vol. 5, no. 3, p. 264, Sep. 2021, doi: 10.30630/joiv.5.3.632.
- [35] "The Effectiveness of Using Blended Learning Models Against Vocational Education Student Learning Motivation," *International Journal of Advanced Trends in Computer Science and Engineering*, vol. 9, no. 5, pp. 7964–7968, Oct. 2020, doi:10.30534/ijatcse/2020/151952020.
- [36] N. A. Binti Muhammad Zahrudin, N. D. Kamarudin, R. Mat Jusoh, N. A. Abdul Fataf, and R. Hidayat, "Case Study: Using Data Mining to Predict Student Performance Based on Demographic Attributes," *JOIV : International Journal on Informatics Visualization*, vol. 7, no. 4, p. 2460, Dec. 2023, doi: 10.30630/joiv.7.4.02454.
- [37] A. Rahmatulloh, A. Ginanjar, I. Darmawan, N. I. Kurniati, and E. Haerani, "Chatbot for Diagnosis of Pregnancy Disorders using Artificial Intelligence Markup Language (AIML)," *JOIV : International Journal on Informatics Visualization*, vol. 7, no. 1, p. 77, Mar. 2023, doi: 10.30630/joiv.7.1.1595.
- [38] Mahirullah, Sri Muslimatul Husna, and Farida Adriani, "Analysis of the Application and Correlation of the Murder Type Collaborative Learning Model on Student Learning Outcomes at Senior High School Jambi," *Journal Evaluation in Education (JEE)*, vol. 4, no. 1, pp. 21–30, Jan. 2023, doi: 10.37251/jee.v4i1.293.
- [39] D. Zahner, D. Van Damme, R. Benjamin, and J. Lehrfeld, "Measuring the generic skills of higher education students and graduates: Implementation of CLA+ international," *Assessing undergraduate learning in psychology: Strategies for measuring and improving student performance.*, pp. 219–241, 2021, doi: 10.1037/0000183-015.
- [40] R. A. Febriani, S. Suseno, J. Budiman, A. S. Saefudin, and A. P. Danadibrata, "Gap Analysis of Graduates Competencies in Manufacturing Engineering Department with the Industry," *International Journal of Management, Entrepreneurship, Social Science and Humanities*, vol. 4, no. 2, pp. 75–84, Dec. 2021, doi:10.31098/ijmesh.v4i2.625.
- [41] H. H. Alharahsheh and A. Pius, "Exploration of Employability Skills in Business Management Studies Within Higher Education Levels," *International Journal of Sustainable Economics Management*, vol. 9, no. 1, pp. 52–69, Jan. 2020, doi: 10.4018/ijsem.2020010105.
- [42] I. Santosa and R. Mulyana, "The IT Services Management Architecture Design for Large and Medium-sized Companies based on ITIL 4 and TOGAF Framework," *JOIV : International Journal on Informatics Visualization*, vol. 7, no. 1, p. 30, Mar. 2023, doi:10.30630/joiv.7.1.1590.
- [43] O. V. Okhlupina, "Transformation of Education: Threat or Limitless Opportunities?," *Prepodavatel XXI vek*, no. 3, 2020, pp. 22–31, 2020, doi: 10.31862/2073-9613-2020-3-22-31.
- [44] K. Gallagher, "Student voice: perceptions of fair treatment in a Foundations program," *Journal of Applied Research in Higher Education*, vol. 11, no. 1, pp. 129–145, Feb. 2019, doi: 10.1108/jarhe-03-2018-0037.
- [45] M. Islam, N. H. Mazlan, G. Al Murshidi, M. S. Hoque, S. V. Karthiga, and M. Reza, "UAE university students' experiences of virtual classroom learning during Covid 19," *Smart Learning Environments*, vol. 10, no. 1, Jan. 2023, doi: 10.1186/s40561-023-00225-1.
- [46] S. Caspari-Sadeghi, "Applying Learning Analytics in Online Environments: Measuring Learners' Engagement Unobtrusively," *Frontiers in Education*, vol. 7, Jan. 2022, doi: 10.3389/feduc.2022.840947.
- [47] D. Satria Ahmar, M. Fath Azzajjad, And A. Saleh Ahmar, "Adapting to Change: The Effects of Case Study Approaches on Problem-Solving Skills," *Arrus Journal of Mathematics and Applied Science*, Vol. 3, No. 2, 2023, Doi: 10.35877/Mathscience2206.
- [48] M. F. Azzajjad, D. S. Ahmar, and Muh. Syahrir, "The Effect of Animation Media in Discovery Learning Model on Students' Representation Ability on Chemical Equilibrium Materials," *Journal of Applied Science, Engineering, Technology, and Education*, vol. 2, no. 2, pp. 204–209, Nov. 2020, doi: 10.35877/454ri.asci22125.