

## DAFTAR PUSTAKA

- Abidin, E. N., & Hariyono, E. (2020). Ecopreneurship-Oriented Project-Based Learning (PBL): An Approach to Enhance Students' Problem-Solving Skill. *Journal of Physics: Conference Series*, 1491(1). <https://doi.org/10.1088/1742-6596/1491/1/012025>
- Abuhmaid, A. M. (2020). The efficiency of online learning environment for implementing project-based learning: Students' perceptions. *International Journal of Higher Education*, 9(5). <https://doi.org/10.5430/ijhe.v9n5p76>
- Al-Abdullatif, A. M., & Gameil, A. A. (2021). The Effect of Digital Technology Integration on Students' Academic Performance through Project-Based Learning in an E-Learning Environment. *International Journal of Emerging Technologies in Learning*, 16(11). <https://doi.org/10.3991/ijet.v16i11.19421>
- Amiti, F. (2020). Synchronous and Asynchronous E-Learning. *European Journal of Open Education and E-Learning Studies*, 5(2). <https://doi.org/10.46827/ejoe.v5i2.3313>
- Andy Field. (2009). *Discovering Statistics using SPSS Statistics*. In *SAGE Publications* (Vol. 66).
- Anggreni, Y. D., Festiyed, F., & Asrizal, A. (2019). Meta-analisis pengaruh model pembelajaran project based learning terhadap kemampuan berpikir kritis peserta didik SMA. *Pillar Of Physics Education*, 12(4).
- Arizona, K., Abidin, Z., & Rumansyah, R. (2020). Pembelajaran Online Berbasis Proyek Salah Satu Solusi Kegiatan Belajar Mengajar Di Tengah Pandemi Covid-19. *Jurnal Ilmiah Profesi Pendidikan*, 5(1), 64–70. <https://doi.org/10.29303/jipp.v5i1.111>
- Clark, R. C., & Mayer, R. E. (2016). *E-learning and the Science of Instruction important: Fourth Edition*. Published by John Wiley & Sons, Inc., Hoboken, New Jersey.
- Cohen, L., Lawrence, M., & Morrison, K. (2017). *Research Methods in Education*. Eighth Edition. In *Research Methods in Education*.

- Cowan, J. (2011). Research methods in education - By Louis Cohen et al. *British Journal of Educational Technology*, 42(5). <https://doi.org/10.1111/j.1467-8535.2011.01222.x>
- Darmawan, D. (2014). Pengembangan E-Learning Teori dan Desain. In *Remaja Rosdakarya*.
- Dewi, P. S. (2021). E-Learning: PjBL Pada Mata Kuliah Pengembangan Kurikulum dan Silabus. *Jurnal Cendekia: Jurnal Pendidikan Matematika*, 05(02), 1332–1340. <https://j-cup.org/index.php/cendekia/article/view/572>
- Fahrezi, I., Taufiq, M., Akhwani, A., & Nafia'ah, N. (2020). Meta-Analisis Pengaruh Model Pembelajaran Project Based Learning Terhadap Hasil Belajar Siswa Pada Mata Pelajaran IPA Sekolah Dasar. *Jurnal Ilmiah Pendidikan Profesi Guru*, 3(3). <https://doi.org/10.23887/jippg.v3i3.28081>
- Fauziah, C., Taufiqullah, & Hanung, S. (2020). Implementasi Model Project Based Learning Pada Pembelajaran Jarak Jauh Berbasis E-Learning Selama Pandemi Covid-19. *Pancasakti Science Education Journal*, 5(2).
- Glass, G. V., & Smith, M. L. (1979). Meta-Analysis of Research on Class Size and Achievement. *Educational Evaluation and Policy Analysis*, 1(1). <https://doi.org/10.3102/01623737001001002>
- Gök, T., & Sýlay, I. (2010). The Effects of Problem Solving Strategies on Students' Achievement, Attitude and Motivation. *Latin-American Journal of Physics Education*, 4(1).
- Hamidah, H., Rabbani, T. A. S., Fauziah, S., Puspita R. A., Gasalba, R. A., & Nirwansyah. (2020). *HOTS-Oriented Module: Project-Based Learning*. SEAMEO QITEP in Language.
- Hamonangan, T. (2012). Model Pembelajaran Berbasis E-Learning Suatu Tawaran Pembelajaran Masa Kini dan Masa Yang Akan Datang. *Pengantar Teknologi Informasi*.
- Hasyim, M., & Eldiana, N. F. (2020). Eksperimentasi model PBL dan PjBL berbasis schoology terhadap pemecahan masalah matematika ditinjau dari self-efficacy. *JP2M (Jurnal Pendidikan Dan Pembelajaran Matematika)*, 6(2), 87. <https://doi.org/10.29100/jp2m.v6i2.1751>

- Herayanti, L., Fuaddunnazmi, M., & Habibi, H. (2017). Pengembangan Media Pembelajaran Berbasis Moodle pada Mata Kuliah Fisika Dasar. *Jurnal Pendidikan Fisika Dan Teknologi*, 1(3). <https://doi.org/10.29303/jpft.v1i3.260>
- Hurint, M. T., & Tahulending, G. (2021). Komparasi Keefektifan Penerapan Model Pembelajaran Project Based Learning Dengan Problem Posing-Solving Dalam Pembelajaran Matematika Berbasis Online Di SMK YPK 1 BIAK. *Jurnal Inovasi Penelitian*. <https://stp-mataram.e-journal.id/JIP/article/view/698>
- J. Stivers, & Brandon, G. (2010). Project-Based Learning Why Use It? In *Educational Psychology* (Vols. 1–8, Issue ESPY 505).
- Johnson, R. D., & Brown, K. G. (2017). E-Learning. In *The Wiley Blackwell Handbook of the Psychology of the Internet at Work* (pp. 369–400). John Wiley & Sons, Ltd. <https://doi.org/https://doi.org/10.1002/9781119256151.ch17>
- Kadir, K. (2017). Meta-Analysis Of The Effect Of Learning Intervention Toward Mathematical Thinking On Research And Publication Of Student. *TARBIYA: Journal of Education in Muslim Society*, 4(2). <https://doi.org/10.15408/tjems.v4i2.8010>
- Kemendikbud. (2014). Materi Pelatihan Guru Implementasi Kurikulum 2013 Tahun Ajaran 2014/2015. In *Kementerian Pendidikan dan Kebudayaan*.
- Kimmons, R., & Caskurlu, S. (2020). The Students' Guide to Learning Design and Research. In *EdTechBook.org*.
- Krauss, Jj., & Boss, S. (2014). Thinking Through Project-Based Learning: Guiding Deeper Inquiry. In *Library Media Connection* (Vol. 32, Issue 4).
- Kusmaharti, D., & Yustitia, V. (2020). Efektivitas Online Learning terhadap Kemampuan Pemecahan Masalah Matematika Mahasiswa. *Journal of Medives : Journal of Mathematics Education IKIP Veteran Semarang*, 4(2), 311. <https://doi.org/10.31331/medivesveteran.v4i2.1199>
- Muwahiddah, U., & Asikin, M. (2019). Project Based Learning Berbasis Etnomatematika Berbantuan Augmented Reality Untuk Meningkatkan Kemampuan Pemecahan Masalah Geometri. *Matematika Ahmad Dahlan*. <http://www.seminar.uad.ac.id/index.php/sendikmad/article/view/1070>

- Ningsih, S. C., & Pramaeda, T. D. O. (2020). Efektivitas Model Pembelajaran Discovery Learning Berbantuan E-Learning Ditinjau Dari Kemampuan Pemecahan Masalah. *AKSIOMA: Jurnal Matematika Dan Pendidikan Matematika*, 11(1). <https://doi.org/10.26877/aks.v11i1.5576>
- Nugraha, H. D., Poniman, D., Kencanasari, R. A. V., Maosul, A., & Rusydi, M. I. (2020). Meta-Analisis Model Pembelajaran Vokasi dalam Kondisi Covid-19. *Jurnal Dinamika Vokasional Teknik Mesin*, 5(2), 83–94. <https://doi.org/10.21831/dinamika.v5i2.34779>
- Nugroho, K. D., & Prihanto, Y. P. (2021). Problem Solving in the Limitations of the Implementation of Online-Based Emergency Nursing Clinical Practice: A Phenomenological Case Study. *International Journal of Nursing Education*, 13(3).
- Nurhayati, Priatna, N., & Juandi, D. (2021). Improving students' mathematical problem solving abilities through online project-based learning models with the STEM approach. *Journal of Physics: Conference Series*, 1806(1). <https://doi.org/10.1088/1742-6596/1806/1/012213>
- Perry, S. B. (2018). Project-Based Learning. In R. Kimmons (Ed.), *The Students' Guide to Learning Design and Research*. EdTech Books. [https://edtechbooks.org/studentguide/project-based\\_learning](https://edtechbooks.org/studentguide/project-based_learning)
- Perwitasari, I. D. (2019). *Blended Learning Berbasis Masalah Untuk Meningkatkan Hasil Belajar dan Kemampuan Pemecahan Masalah Siswa SMK Pada Mata Pelajaran Komputer dan Jaringan Dasar* [Universitas Negeri Yogyakarta]. <https://eprints.uny.ac.id/67637/>
- Pratikno, H., & Retnowati, E. (2018). How Indonesian Students Use the Polya's General Problem Solving Steps. *Southeast Asian Mathematics Education Journal*, 8(1). <https://doi.org/10.46517/seamej.v8i1.62>
- Ratnawati, D., Izar, S., Faza, M. A., & Pekalongan, U. (2018). *Matematis Dengan Pembelajaran Berbasis E-Learning Pada Siswa Smp*. 100–108.
- Riyanti. (2020). *Pengembangan Perangkat Pembelajaran Project Based Learning (PjBL) Terintegrasi STEM Berbasis E-Learning Untuk Peningkatan Kemampuan Berpikir Kreatif Siswa*. Universitas Negeri Semarang.

- Rotherham, A. J., & Willingham, D. (2009). 21st century skills: The challenges ahead. *Educational Leadership*, 67(1).
- Rusydan, F., & Sujatmiko, B. (2020). Studi Literatur Efek Model Pembelajaran Project Based Learning Terhadap Keahlian Pemecahan Masalah Pada Peserta Didik Rekayasa Perangkat Lunak Di Sekolah Menengah Kejuruan. *Jurnal IT-EDU*. <https://ejournal.unesa.ac.id/index.php/it-edu/article/view/42528>
- Safithri, R., Syaiful, S., & Huda, N. (2021). Pengaruh Penerapan Problem Based Learning (PBL) dan Project Based Learning (PjBL) Terhadap Kemampuan Pemecahan Masalah Berdasarkan Self Efficacy Siswa. *Jurnal Cendekia : Jurnal Pendidikan Matematika*, 5(1). <https://doi.org/10.31004/cendekia.v5i1.539>
- Safitri, N. A., & Adistana, G. (2021). Efektivitas Implementasi Media E-Learning Terhadap Hasil Belajar Siswa Sekolah Menengah Kejuruan: Studi Meta-Analisis. *Jurnal Pendidikan Tambusai*. <https://jptam.org/index.php/jptam/article/view/1503>
- Samani, M., Sunwinarti, S., Putra, B. A. W., Rahmadian, R., & Rohman, J. N. (2019). Learning Strategy to Develop Critical Thinking, Creativity, and Problem-Solving Skills for Vocational School Students. *Jurnal Pendidikan Teknologi Dan Kejuruan*, 25(1). <https://doi.org/10.21831/jptk.v25i1.22574>
- Santyasa, I. W. (2017). *Pembelajaran Inovatif*. Singaraja: Undiksha Press.
- Serin, H. (2019). Project based learning in mathematics context. *International Journal of Social Sciences & Educational Studies*. <http://eprints.tiu.edu.iq/26/>
- Shida, N., Sharifah, Hanifah, Norulhuda, & Halim, A. (2019). The influence of e-learning towards metacognitive enhancement in mathematical problem solving. *International Journal of Emerging Technologies in Learning*, 14(20). <https://doi.org/10.3991/ijet.v14i20.11466>
- Sudarman, S., Sartika, S., Sugiharta, I., & Farida, F. (2021). Pengaruh E-Learning Berbantuan Google Classroom Terhadap Kemampuan Pemecahan Masalah Matematis. *Jurnal Cendekia : Jurnal Pendidikan Matematika*, 5(3), 2133–2140. <https://doi.org/10.31004/cendekia.v5i3.625>

- Sugiyono. (2016). metode penelitian kuantitatif, kualitatif, dan R&D. In *Alfabeta*, cv.
- Suriyanto, F. N., & Wulandari, S. S. (2021). Analysis of the Effectiveness of Online Learning With Pjbl Model in Correspondence Subjects. *Paedagoria: Jurnal Kajian Penelitian Dan Pengembangan Kependidikan*, 6356, 106–114. <http://journal.ummat.ac.id/index.php/paedagoria/article/view/4038>
- Tela, T., Yulian, V. N., & Budianingsih, Y. (2019). Pengaruh Model Pembelajaran Kooperatif Tipe Think Pair Share (TPS) Terhadap Peningkatan Kemampuan Pemecahan Masalah Matematis Siswa. *BIORMATIKA: Jurnal Ilmiah Fakultas Keguruan Dan Ilmu Pendidikan*, 5(01). <https://doi.org/10.35569/biormatika.v5i01.464>
- Tosheva, S., & Martinovska, C. (2012). Adaptive E-learning System in Secondary Education. *International Journal of Emerging Technologies in Learning (IJET)*, 7(S1). <https://doi.org/10.3991/ijet.v7is1.1913>
- Yamsih, S. (2021). Implementasi Project Based Learning (Improbasle) Pada Pembelajaran Online Di Masa Pandemi Covid-19 Bagi Siswa SMA Negeri 1 Tawangsari Tahun Pelajaran 2020/2021. *Jurnal Pendidikan*.

