

DAFTAR PUSTAKA

- Alismail, H. A., & McGuire, P. (2015). 21st Century Standards and Curriculum: Current Research and Practice. *Journal of Education and Practice*, 6(6), 150-154.
- Amin, B. D., Mahmud, A., & Muris. (2016). The Development of Physics Learning Instrument Based on Hypermedia and Its Influence on the Student Problem Solving Skill. *Journal of Education and Practice*, 7(6), 22-28.
- Asmuniv. (2015, Mei 25). Pendekatan Terpadu Pendidikan STEM Dalam Upaya Mempersiapkan Sumber Daya Manusia Indonesia Yang Memiliki Pengetahuan Interdisipliner Untuk Menyosong Kebutuhan Bidang Karir Pekerjaan Masyarakat Ekonomi ASEAN (MEA). Malang, Jawa Timur, Indonesia.
- Becker, K., & Park, K. (2011). Effects of integrative approaches among science, technology, engineering, and mathematics (STEM) subjects on students' learning: A preliminary meta-analysis. *Journal of STEM Education*, 12.
- Bell, S. (2010). Project-Based Learning for the 21st Century: Skills for the Future. *The Clearing House*, 39-43.
- Berry, M. R., Chalmers, C., & Chandra, V. (2012). STEM futures and practice, can we teach STEM in a more meaningful and integrated way? *2nd International STEM in Education Conference*, (hal. 225-240). Beijing.
- Bybee, R. W. (2013). *The Case for STEM Education: Challenges and Opportunity*. Arlington: NSTA Press.
- Creswell, J. W. (2009). *Research Design; Qualitative, Quantitative and Mixed Method Approach. Third Edition*. California: SAGE Publication.
- Devkota, S. P., Giri, D. R., & Bagale, S. (2017). Developing 21st Century Skills Through Project-Based Learning In Efl Context: Challenges And Opportunities. *The Online Journal of New Horizons in Education*, 47-52.
- Duran, M., Hoft, M., & Medjahed, B. (2016). *STEM Learning: IT Integration and Collaborative Strategies*. Switzerland: Springer International Publishing.

Nur Habib Muhammad Iqbal, 2017

IMPLEMENTASI MODEL PEMBELAJARAN BERBASIS PROYEK DENGAN PENDEKATAN STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS) TERHADAP PENINGKATAN ASPEK KETERAMPILAN MEMECAHKAN MASALAH SISWA SMA

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- English, L. D. (2016). STEM education K-12: perspectives on Integration. *International Journal of STEM Education*, 1-8.
- Erdogan, N., Navruz, B., Younes, R., & Capraro, R. M. (2016). Viewing How STEM Project-Based Learning Influences Students' Science Achievement Through the Implementation Lens: A Latent Growth Modeling. *Eurasia Journal of Mathematics, Science & Technology Education*, 2139-2154.
- Evagorou, M., Erduran, S., & Mäntylä, T. (2015). The role of visual representations in scientific practices: from conceptual understanding and knowledge generation to 'seeing' how science works. *International Journal of STEM Education*, 1-13.
- Fabby, C., & Koenig, K. (2015). Examining the Relationship of Scientific Reasoning with Physics Problem Solving. *Journal of STEM Education: Innovations and Research*, 16, 20-26.
- Farisi, M. I. (2016). Developing The 21st-Century Social Studies Skills Through Technology Integration. *Turkish Online Journal of Distance Education*, 16-30.
- Firman, H. (2015). *Pendidikan Sains Berbasis STEM: Konsep, Pengembangan, Dan Peranan Riset Pascasarjana*. Bogor: Program Pascasarjana Universitas Pakuan.
- Frydenberg, M., & Andone, D. (2011). Learning for 21 st Century Skills. *Information Society (i-Society)*.
- Gates, B., Myhrvold, N., & Rinearson, P. (1996). *The Road Ahead*. Penguin Books.
- Griese, B., Lehmann, M., & Roesken-Winter, B. (2015). Refining questionnaire-based assessment of STEM students' learning strategies. *International Journal of STEM Education*, 1-12.
- Harwell, M., Moreno, M., Phillips, A., Guzey, S. S., Moore, T. J., & Roehrig, G. H. (2015). A Study of STEM Assessments in Engineering, Science, and Mathematics for Elementary and Middle School Students. *A Measurement Study of STEM Assessments Journal*, 115(2), 66-74.
- Heron, P., & McNeil, L. (2016). *Phys21: Preparing Physics Students for 21st-Century Careers*. College Park,: American Physical Society.

Nur Habib Muhammad Iqbal, 2017

IMPLEMENTASI MODEL PEMBELAJARAN BERBASIS PROYEK DENGAN PENDEKATAN STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS) TERHADAP PENINGKATAN ASPEK KETERAMPILAN MEMECAHKAN MASALAH SISWA SMA

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Igballe, M. (2014). Project based learning: Developing 21st Century collaborative and technology skills. *European Journal of Research on Education*, 52-57.
- Kelley, T. R., & Knowles, J. G. (2016). A Conceptual Framework for Integrated STEM Education. *International Journal of STEM Education*.
- Kemendikbud, L. (2013). *Lakip Kemendikbud 2013*. Diambil kembali dari Litbang Kemdikbud - Kementerian Pendidikan dan Kebudayaan: www.kemdikbud.go.id/kemdikbud/dokumen/pdf/LAKIP-kemendikbud-2013.pdf
- Kyllonen, P. C. (2012). *Measurement of 21st Century Skills Within the Common Core State Standards*. California: Educational Testing Service.
- Lestari, I. (2016). *Penerapan Model Pembelajaran Berbasis Pengalaman dengan Pendekatan Science, Technology, Engineering, and Mathematics (STEM) untuk Meningkatkan Kemampuan Pemecahan Masalah dan Keterampilan Berpikir Kritis Siswa SMA*. Bandung: UPI.
- Lund, T. J., & Stains, M. (2015). The importance of context: an exploration of factors influencing the adoption of student-centered teaching among chemistry, biology, and physics faculty. *International Journal of STEM Education*, 1-21.
- Mayasari, T. (2014). Pengaruh Pembelajaran Terintegrasi Science, Technology, Engineering, And Mathematics (STEM) Pada Hasil Belajar Peserta Didik: Studi Meta Analisis. *Semnas Pensa VI "Peran Literasi Sains"* (hal. 371-377). Surabaya: Prosiding Semnas Pensa VI "Peran Literasi Sains".
- Mukhadis, A. (2013). Sosok Manusia Indonesia Unggul Dan Berkarakter Dalam Bidang Teknologi Sebagai Tuntutan Hidup Di Era Globalisasi. *Jurnal Pendidikan Karakter*, 3.
- Quang, L. X., Hoang, L. H., Chuan, V. D., Nam, N. H., Anh, N. T., & Nhung, V. T. (2015). Integrated Science, Technology, Engineering and Mathematics (STEM) Education through Active Experience of Designing Technical Toys in Vietnamese Schools. *British Journal of Education, Society & Behavioural Science*.
- Ravitz, J., Hixson, N., English, M., & Mergendoller, J. (2012). Using project based learning to teach 21st century skills: Findings from a statewide initiative. *American Educational Research Association*.

Nur Habib Muhammad Iqbal, 2017

IMPLEMENTASI MODEL PEMBELAJARAN BERBASIS PROYEK DENGAN PENDEKATAN STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS) TERHADAP PENINGKATAN ASPEK KETERAMPILAN MEMECAHKAN MASALAH SISWA SMA

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Sugiyono. (2008). *Metode penelitian kualitatif, kuantitatif, dan R&D*. Bandung: Alfabeta.
- Tilaar, H. R. (1998). *Beberapa Agenda Reformasi Pendidikan Nasional dalam Perspektif Abad 21*. Magelang: Tera Indonesia.
- Trilling, B., & Hood, P. (1999). Learning, Technology, and Education Reform in the Knowledge Age or “We’re Wired, Webbed, and Windowed, Now What?”. *Educational Technology*.
- Wijaya, E. Y., Sudjimat, D. A., & Nyoto, A. (2016). Transformasi Pendidikan Abad 21 Sebagai Tuntutan Pengembangan Sumber Daya Manusia Di Era Global. *Prosiding Seminar Nasional Pendidikan Matematika 2016 Universitas Kanjuruhan Malang*, 263-278.
- Williams, C. T., Walter, E. M., Henderson, C., & Beach, A. L. (2015). Describing undergraduate STEM teaching practices: a comparison of instructor self-report instruments. *International Journal of STEM Education*, 1-14.