

## DAFTAR PUSTAKA

- [1] R. M. Harden, "Outcome-based education: The future is today," *Med. Teach.*, vol. 29, no. 7, pp. 625–629, 2007, doi: 10.1080/01421590701729930.
- [2] R. M. Harden, J. R. Crosby, and M. H. Davis, "AMEE Guide No. 14: Outcome-based education: Part 1 - An introduction to outcome-based education," *Med. Teach.*, vol. 21, no. 1, pp. 7–14, 1999.
- [3] Paristiyanti Nurwardani, "PANDUAN PENYUSUNAN KURIKULUM PENDIDIKAN TINGGI di ERA INDUSTRI 4.0," pp. 1–23, 2016.
- [4] A. Aminuddin, R. Salambue, Y. Andriyani, and E. Mahdiyah, "Aplikasi E-OBE untuk Integrasi Komponen Kurikulum OBE (Outcome-Based Education)," *JSI J. Sist. Inf.*, vol. 13, no. 1, pp. 2168–2182, 2021, doi: 10.36706/jsi.v13i1.13914.
- [5] A. Varfolomeyev, ... E. P.-... C. of E., and undefined 2015, "Curriculum management information sistem ," *Researchgate.Net*, no. January, 2015, [Online]. Available: [https://www.researchgate.net/profile/Aleksey-Varfolomeyev-2/publication/312701809\\_Curriculum\\_Management\\_Information\\_Sistem/links/5887ce22a6fdcc6b791ec888/Curriculum-Management-Information-Sistem.pdf](https://www.researchgate.net/profile/Aleksey-Varfolomeyev-2/publication/312701809_Curriculum_Management_Information_Sistem/links/5887ce22a6fdcc6b791ec888/Curriculum-Management-Information-Sistem.pdf)
- [6] ISO/IEC/IEEE International Standard, "Sistem s and software engineering," pp. 1–541, 2017.
- [7] M. A. Musen, "Dimensions of knowledge sharing and reuse," *Comput. Biomed. Res.*, vol. 25, no. 5, pp. 435–467, 1992, doi: 10.1016/0010-4809(92)90003-S.
- [8] S. Calegari and D. Ciucci, "Integrating fuzzy logic in ontologies," *ICEIS 2006 - 8th Int. Conf. Enterp. Inf. Syst. Proc.*, vol. AIDSS, pp. 66–73, 2006, doi: 10.5220/0002496100660073.
- [9] A. Maedche and S. Staab, "Ontologi Learning for the *Semantic Web*," *IEEE Intell. Syst.*, vol. 16, no. 2, pp. 72–79, 2001, doi: 10.1109/5254.920602.
- [10] D. Fensel, S. Staab, R. Studer, F. van Harmelen, and J. Davies, *A Future Perspective: Exploiting Peer-To-Peer and the Semantic Web for Knowledge Management*. 2003. doi: 10.1002/0470858060.ch14.
- [11] U. M. Ishaq, M. F. Wicaksono, and S. Nurhayati, "Aplikasi Probe Untuk Penilaian Capaian Pembelajaran Mahasiswa Pada Kurikulum OBE ( Outcame-Based Education ) Probe Application for Assessment of Student Learning Outcomes in the OBE Curriculum ( Outcame-Based Education )," vol. 12, no. 148, pp. 67–74, 2023, doi: 10.34010/komputika.v12i2.9763.
- [12] D. Windisari, S. S. Kusumawardani, and P. I. Santosa, "Ontologi Sistem Penilaian E-Learning Berbasis Kompetensi," *Forum Tek.*, vol. 34, no. 1, pp. 39–45, 2011, [Online]. Available: <https://journal.ugm.ac.id/mft/article/view/2042/1844>

- [13] D. W. Sari and A. H. Saptadi, "APLIKASI PROTÉGÉ DATAMASTER DALAM ASSESSMENT E-LEARNING BERBASIS ONTOLOGI," vol. 1, no. 1, pp. 12–15, 2014.
- [14] N. Zaini, M. F. Abdul Latip, and H. Omar, "Semantic-based online outcome-based education measurement sistem," *2011 3rd Int. Congr. Eng. Educ. Rethink. Eng. Educ. W. Forward, ICEED 2011*, pp. 218–222, 2011, doi: 10.1109/ICEED.2011.6235393.
- [15] N. F. N. and D. L. McGuinness, "Ontologi Development 101: A Guide to Creating Your First Ontologi," *Sustain.*, vol. 9, no. 12, pp. 1–25, 2017, doi: 10.3390/su9122317.
- [16] M. Uschold and M. King, "Towards a Methodology for Building Ontologies," *Work. Basic Ontol. Issues Knowl. Shar.*, no. July, 1995.
- [17] J. V. Fonou Dombou and M. Huisman, "Semantic-Driven e-Government: Application of Uschold and King Ontologi Building Methodology for Semantic Ontologi Models Development," *Int. J. Web Semant. Technol.*, vol. 2, no. 4, pp. 111–20, 2011, doi: 10.5121/ijwest.2011.2401.
- [18] M. Grüninger, M. S. Fox, and M. Gruninger, "Methodology for the Design and Evaluation of Ontologies," *Int. Jt. Conf. Artif. Intel. (IJCAI95), Work. Basic Ontol. Issues Knowl. Shar.*, no. July 1995, pp. 1–10, 1995, [Online]. Available: <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.44.8723>
- [19] J. Grandgirard, D. Poinot, L. Krespi, J. P. Nénon, and A. M. Cortesero, "Costs of secondary parasitism in the facultative hyperparasitoid *Pachycrepoideus dubius*: Does host size matter?," *Entomol. Exp. Appl.*, vol. 103, no. 3, pp. 239–248, 2002, doi: 10.1023/A.
- [20] M. F.-L. and O. C. Asunción Gómez-Pérez, *Ontologi engineering*. Advanced Information and Knowledge Processing, 2005.
- [21] B. Al-Hamadani, "CardioOWL: An ontologi-driven expert sistem for diagnosing coronary artery diseases," *ICOS 2014 - 2014 IEEE Conf. Open Syst.*, no. October 2014, pp. 128–132, 2014, doi: 10.1109/ICOS.2014.7042642.
- [22] O. Corcho, M. Fernández-López, A. Gómez-Pérez, and A. López-Cima, "Building legal ontologies with METHONTOLOGY and WebODE," *Lect. Notes Comput. Sci. (including Subser. Lect. Notes Artif. Intell. Lect. Notes Bioinformatics)*, vol. 3369 LNAI, pp. 142–157, 2005, doi: 10.1007/978-3-540-32253-5\_9.
- [23] M. Khoiruddin, S. S. Kusumawardani, I. Hidayah, and S. Fauziati, "A Review of Ontologi Development in the e-Learning Domain: Methods, Roles, Evaluation," *Proc. - 2023 10th Int. Conf. Comput. Control. Informatics its Appl. Explor. Power Data Leveraging Inf. to Drive Digit. Innov. IC3INA 2023*, pp. 262–267, 2023, doi: 10.1109/IC3INA60834.2023.10285789.
- [24] D. Sunu Wibirama, *Kurikulum 2021 Program Sarjana Program studi Teknologi Informasi UGM*, no. 2. 2023.
- [25] Y. L. Chi, "Ontologi-based curriculum content sequencing sistem with semantic rules," *Expert Syst. Appl.*, vol. 36, no. 4, pp. 7838–7847, 2009, doi:

- 10.1016/j.eswa.2008.11.048.
- [26] T. R. Gruber, "A translation approach to portable ontology specifications," *Knowl. Acquis.*, vol. 5, no. 2, pp. 199–220, 1993, doi: 10.1006/knac.1993.1008.
  - [27] B. R. Suteja and A. Ashari, "Ontologi e-Learning Content berbasis Web Semantic," *Snati 2008*, vol. 2008, no. Snati, pp. C13–C20, 2008, [Online]. Available: <http://www.jurnal.uii.ac.id/Snati/article/viewFile/554/478>
  - [28] S. Parsons, *A Semantic Web Primer, Second Edition by Antoniou Grigoris and Harmelen Frank van, MIT Press, 288 pp., \$42.00*, vol. 24, no. 4. 2009. doi: 10.1017/s0269888909990117.
  - [29] N. F. Noy, M. Sintek, S. Decker, M. Crubezy, and R. Fergerson, "Creating Semantic Web Contents with Protégé-2000," *IEEE Intell. Syst.*, vol. 16, no. 2, pp. 60–71, 2001, doi: 10.1109/5254.920601.
  - [30] A. Gerber, A. Van Der Merwe, and A. Barnard, "A functional semantic web architecture," *Lect. Notes Comput. Sci. (including Subser. Lect. Notes Artif. Intell. Lect. Notes Bioinformatics)*, vol. 5021 LNCS, no. June, pp. 273–287, 2008, doi: 10.1007/978-3-540-68234-9\_22.
  - [31] Hendro Wijayanto, "Penerapan Web Semantik Dalam Pencarian Katalog Buku Di Perpustakaan Stmik Sinar Nusantara Surakarta," *TIKomSin*, pp. 60–68, 2013, [Online]. Available: <http://p3m.sinus.ac.id/jurnal/index.php/TIKomSiN/issue/view/13>
  - [32] E. Sirin, B. Parsia, B. C. Grau, A. Kalyanpur, and Y. Katz, "Pellet: A practical OWL-DL reasoner," *Web Semant.*, vol. 5, no. 2, pp. 51–53, 2007, doi: 10.1016/j.websem.2007.03.004.
  - [33] M. Debellis, "A Practical Guide to Building OWL Ontologies Using Protégé 5.5 and Plugins A Practical Guide to Building OWL Ontologies Using Protégé 5.5 and Plugins 8 April 2021 Michael DeBellis," no. April, 2021.
  - [34] K. Matuszewski, *Knowledge management*, vol. 25, no. 10. 2000.
  - [35] Morten T. Hansen, Nitin Nohria, and Thomas Tierney, "What's Your Strategy for Managing Knowledge?," *Harv. Bus. Rev.*, vol. 77, pp. 106–116, 1999, [Online]. Available: <http://www.hbr.org/forum>.
  - [36] G. KÜmmel and Jü. Brandenburg, "Die reusengeißelzellen (cyrtocyten)," *Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences*, vol. 16, no. 10. pp. 692–697, 1961. doi: 10.1515/znB-1961-1011.
  - [37] C. Bezerra, F. Freitas, and F. Santana, "Evaluating ontologies with Competency Questions," *Proc. - 2013 IEEE/WIC/ACM Int. Jt. Conf. Web Intell. Intell. Agent Technol. - Work. WI-IATW 2013*, vol. 3, no. June 2018, pp. 284–285, 2013, doi: 10.1109/WI-IAT.2013.199.
  - [38] Bob DuCharme, *Learning SPARQL*. United States: O'Reilly Media, 2011.
  - [39] S. Tartir, I. B. Arpinar, M. Moore, A. P. Sheth, and B. Aleman-meza, "OntoQA: Metric-based ontology quality analysis," *IEEE ICDM 2005 Work. Knowl. Acquis. from Distrib. Auton. Semant. Heterog. Data Knowl. Sources*, no. June 2014, 2005, [Online]. Available: <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.131.2087>
  - [40] R. Poli, M. Healy, and A. Kameas, "Theory and applications of ontology:

- Computer applications,” *Theory Appl. Ontol. Comput. Appl.*, no. May 2014, pp. 1–576, 2010, doi: 10.1007/978-90-481-8847-5.
- [41] L. Y. B. dan K. T. Wayan Simri Wicaksana, “Pengujian *Tool* Ontologi Engineering.”
- [42] C. Vivek, “OUTCOME BASED EDUCATION,” *OUTCOME BASED Educ. A Rev. Int. Res. J. Eng. Technol.*, vol. 2017, no. Vol. 04. no. 07, pp. 129–148, 2017.
- [43] ABET, “Criteria for accrediting engineering programs 2014-2015,” *Cycle*, p. 25, 2013, [Online]. Available: <http://www.abet.org/Linked Documents-UPDATE/Criteria and PP/C001 08-09 CAC Criteria 11-8-07.pdf>
- [44] P. O. R. S. Rao, “Outcomes based engineering education: Need of the hour,” *J. Eng. Educ.*, no. July 2013, pp. 1–14, 2015.
- [45] K. Baclawski, M. M. Kokar, R. Waldinger, and P. A. Kogut, “of *Semantic Web Ontologies*,” pp. 454–459, 2002.
- [46] W. Hussain, W. G. Spady, S. Z. Khan, B. A. Khawaja, T. Naqash, and L. Conner, “Impact Evaluations of Engineering Programs Using Abet Student Outcomes,” *IEEE Access*, vol. 9, pp. 46166–46190, 2021, doi: 10.1109/ACCESS.2021.3066921.
- [47] A. Shafi, S. Saeed, Y. A. Bamarouf, S. Z. Iqbal, N. Min-Allah, and M. A. Alqahtani, “Student Outcomes Assessment Methodology for ABET Accreditation: A Case Study of Computer Science and Computer Information Sistem s Programs,” *IEEE Access*, vol. 7, pp. 13653–13667, 2019, doi: 10.1109/ACCESS.2019.2894066.
- [48] S. S. Kusumawardani, L. E. Nugroho, A. Susanto, A. Kumara, H. S. Wasisto, and U. Cortés, “Ontologi development of *semantic* e-learning for final project course,” *Adv. Sci. Lett.*, vol. 21, no. 1, pp. 46–51, 2015, doi: 10.1166/asl.2015.5758.
- [49] R. Guha and R. McCool, “TAP: A *Semantic Web* test-bed,” *Web Semant.*, vol. 1, no. 1, pp. 81–87, 2003, doi: 10.1016/j.websem.2003.07.004.
- [50] B. Aleman-meza *et al.*, “SWETO : Large-Scale *Semantic Web* Test-bed SWETO : Large-Scale *Semantic Web* Test-bed,” pp. 490–493, 2004.
- [51] A. Sheth *et al.*, “*Semantic Web* technology in support of Bioinformatics for Glycan Expression,” *W3C Work. Semant. Web Life Sci.*, 2004, [Online]. Available: <http://www.knoesis.org/library/resource.php?id=00045>
- [52] C. H. Simanjuntak and D. G. . Ruindungan, “Perancangan Neur-O: Sistem Pakar Penyakit Saraf berbasis Ontologi,” *Sisfotenika*, vol. 10, no. 1, p. 62, 2020, doi: 10.30700/jst.v10i1.609.
- [53] N. A. WULAN, “Pengembangan knowledge management berbasis model ontologi untuk deteksi dini gangguan mental pada anak usia prasekolah,” 2015.
- [54] R. AMINI, “Rancang Bangun Model Ontologi Untuk Mengevaluasi Keselarasan Asesmen Berbasis Capaian Pembelajaran : Studi Kasus Mata Kuliah Matematika Diskret Dan Logika Mengevaluasi Keselarasan Asesmen Berbasis Capaian Pembelajaran : Studi Kasus Mata Kuliah,” 2016.
- [55] S. Tartir and I. B. Arpinar, “Ontologi evaluation and ranking using OntoQA,” *ICSC 2007 Int. Conf. Semant. Comput.*, no. October 2007, pp.

185–192, 2007, doi: 10.1109/ICSC.2007.19.



**ONTOLOGI KURIKULUM OUTCOME BASED EDUCATION (OBE) PADA KURIKULUM PROGRAM  
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Muhammad Khoiruddin, Dr. Indriana Hidayah, S.T., M.T.; Dr. Eng. Silmi Fauziati, S.T., M.T.

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