

DAFTAR PUSTAKA

- Afandi, M., Chamalah, E., Wardani, O. P., & Gunarto, H. (2013). *Model dan metode pembelajaran*. Semarang: Unissula.
- Alberti, K. G. M. M., Eckel, R. H., Grundy, S. M., Zimmet, P. Z., Cleeman, J. I., Donato, K. A., Fruchart, J. C., James, W. P. T., Loria, C. M., & Smith, S. C. (2009). Harmonizing the metabolic syndrome: A joint interim statement of the international diabetes federation task force on epidemiology and prevention; National heart, lung, and blood institute; American heart association; World heart federation; International atherosclerosis society; And international association for the study of obesity. In *Circulation* (Vol. 120, Issue 16, pp. 1640–1645). <https://doi.org/10.1161/CIRCULATIONAHA.109.192644>
- Arikunto, S. (2013). *Prosedur Penelitian: Suatu Pendekatan Praktik*. Jakarta. Penerbit PT Rineka Cipta.
- Astuti, A. P., Aziz, A., Sumarti, S. S., & Bharati, D. A. L. (2019, June). Preparing 21st century teachers: Implementation of 4C character's pre-service teacher through teaching practice. In *Journal of Physics: Conference Series* (Vol. 1233, No. 1, p. 012109). IOP Publishing.
- Barnes, L. B., Christensen, C. R., & Hansen, A. J. (1994). *Teaching and the case method: Text, cases, and readings*. Harvard Business Press.
- Barrett, T., & Green, D. (2010). *The Handbook of Enquiry and Problem-based Learning: Irish Case Studies and International Perspectives*. AISHE and CELT.
- Basar, A. M. . (2021). Problematika Pembelajaran Jarak Jauh Pada Masa Pandemi Covid-19 : (Studi Kasus di SMPIT Nurul Fajri – Cikarang Barat – Bekasi). *Edunesia : Jurnal Ilmiah Pendidikan*, 2(1), 208–218. <https://doi.org/10.51276/edu.v2i1.112>
- Bhagavan, N. (2002). Chapter 13 – *Carbohydrate Metabolism I: Glycolysis and TCA Cycle*. 225-246. <https://doi.org/10.1016/B978-0120954407/50015-9>.
- Bhagavan, N., & Ha, C. (2011). Chapter 8 – *Simple Carbohydrates*. <https://doi.org/10.1016/B978-0-12-095461-2.00008-4>.
- Biggs, J., Tang, C., & Kennedy, G. (2022). *Teaching for quality learning at university 5e*. McGraw-hill education (UK).
- Bird, S. R., & Hawley, J. A. (2017). Update on the effects of physical activity on insulin sensitivity in humans. *BMJ open sport & exercise medicine*, 2(1), e000143. <https://doi.org/10.1136/bmjsem-2016-000143>

- Blanco, A., & Blanco, G. (2017). *Integration and Regulation of Metabolism*. Medical Biochemistry Academic Press, 425-445. <https://doi.org/10.1016/B978-0-12-803550-4.00019-7>.
- Boehrer, J., & Linsky, M. (1990). Teaching with cases: Learning to question. *New directions for teaching and learning*, 1990(42), 41-57.
- Boud, D., & Molloy, E. (2013). Feedback in higher and professional education. *Understanding It and Doing It Well*, 2013.
- Breitmayer, B., Ayres, L., & Knafl, K. (1993). Triangulation in qualitative research: evaluation of completeness and confirmation purposes.. *Image the journal of nursing scholarship*, 25 3, 237-43 . <https://doi.org/10.1111/J.1547-5069.1993.TB00788.X>.
- Bruner, J. S. (1961). The act of discovery. *Harvard educational review*. hal 21 - 32.
- Buskist, W., & Groccia, J. E. (2012). *Effective College and University Teaching: Strategies and Tactics for the New Professoriate*. SAGE Publications.
- Casteleyn, J., Mottart, A., & Valcke, M. (2013). The impact of graphic organisers on learning from presentations. *Technology, Pedagogy and Education*, 22(3), 283-301.
- Christensen, C. R., Hansen, A. J., & Moore, W. C. (1989). *Teaching and the case method: Text, cases, and readings*. Harvard Business Press.
- Creswell, J. W., & Baez, J. (2021). 30 Essential Skills for the Qualitative Researcher (2nd ed.) by John Creswell and Johanna Creswell Báez. In *Journal of Mixed Methods Research* (2nd ed.).
- Darsono, Max. (2000). *Belajar dan Pembelajaran*. Semarang: IKIP Semarang Press
- Dashty, M. (2013). A quick look at biochemistry: carbohydrate metabolism. *Clinical biochemistry*, 46(15), 1339-1352.
- Dewi, M., Wahyuningsih, S. D., Aisyah, N., Bisri, W. H., & Noviani, D. (2023). Aplikasi Metode Studi Kasus Kelebihan dan Kelemahannya dalam Pembelajaran Fiqih. *Pengertian: Jurnal Pendidikan Indonesia (PJPI)*, 1(1), 113-122.
- Dienel, G. (2019). Brain Glucose Metabolism: Integration of Energetics with Function.. *Physiological reviews*, 99 1, 949-1045 . <https://doi.org/10.1152/physrev.00062.2017>.
- Dobrotin, D., & Dobrotin, I. (2019). The Use of The Case Method in Training Students of Pedagogical Universities. *Bulletin of the Moscow State Regional University (Pedagogics)*. <https://doi.org/10.18384/2310-7219-2019-1-62-70>.

- Elksnin, L. K. (2001). Implementing the case method of instruction in special education teacher preparation programs. *Teacher Education and Special Education*, 24(2), 95-107.
- Farikah, F., Mulyani, M., Astuty, A., & Cahyaningrum, A. (2022). Learning Case and Project-based Model Methods: Challenges and Opportunities. *DWIJA CENDEKIA: Jurnal Riset Pedagogik*, 6(3), 492-500.
- Fauzi, A., Ermiana, I., Rosyidah, A., & Sobri, M. (2023). The Effectiveness of Case Method Learning in View of Students' Critical Thinking Ability. *Pedagogia: Jurnal Pendidikan*. <https://doi.org/10.21070/pedagogia.v1i1.1544>.
- Foran, J. (2001). The case method and the interactive classroom. *Thought and Action*, 17(1), 41-50.
- Garrison, D. R., Anderson, T., & Archer, W. (2001). Critical thinking, cognitive presence, and computer conferencing in distance education. *American Journal of distance education*, 15(1), 7-23.
- Grant-Smith, D., Donnet, T., Macaulay, J., & Chapman, R. (2019). Principles and practices for enhanced visual design in virtual learning environments: Do looks matter in student engagement?. In *Student-centered virtual learning environments in higher education* (pp. 103-133). IGI Global.
- Gunawan, I. (2022). *Metode Penelitian Kualitatif: teori dan praktik*. Bumi Aksara.
- Handarini, O. I., & Wulandari, S. S. (2020). Pembelajaran daring sebagai upaya study from home (SFH) selama pandemi covid 19. *Jurnal pendidikan administrasi perkantoran (JPAP)*, 8(3), 496-503.
- Hartfield, P. J. (2010). Reinforcing constructivist teaching in advanced level biochemistry through the introduction of case-based learning activities. *Journal of Learning Design*, 3(3), 20-31.
- Hattie, J., & Timperley, H. (2007). The power of feedback. *Review of educational research*, 77(1), 81-112.
- Hasanah, Z., & Himami, A. S. (2021). Model pembelajaran kooperatif dalam menumbuhkan keaktifan belajar siswa. *Irsyaduna: Jurnal Studi Kemahasiswaan*, 1(1), 1-13.
- Hmelo-Silver, C. E., Duncan, R. G., & Chinn, C. A. (2007). Scaffolding and achievement in problem-based and inquiry learning: a response to Kirschner, Sweller, and. *Educational psychologist*, 42(2), 99-107.
- Hui-yua, L. (2015). Strategy for Selecting Math Teaching Method in Secondary Vocational Schools. *Journal of Dalian Education University*.

- Humas Unimed. (2016). *UNIMED Susun Standar Perkuliahan Kurikulum KKNI*. Unimed.Ac.Id. <https://old.unimed.ac.id/2016/09/13/unimed-susun-standar-perkuliahan-kurikulum-kkni/>
- Hutchings, P. (1993). Windows on practice: Cases about teaching and learning. *Change: The Magazine of Higher Learning*, 25(6), 14-21.
- Jenkins, D., Augustin, L., Malick, A., Esfahani, A., & Kendall, C. (2013). *Glucose: Chemistry and Dietary Sources*, 372-380. <https://doi.org/10.1016/B978-0-12-375083-9.00133-1>.
- Johnson, D. W., & Johnson, R. T. (1987). *Learning together and alone: Cooperative, competitive, and individualistic learning*. Prentice-Hall, Inc.
- Kaur, S., & Sharma, R. (2021). Introduction to case-based learning: An attempt to integrate topics in biochemistry. *Adesh University Journal of Medical Sciences & Research*. https://doi.org/10.25259/aujmsr_25_2021.
- Kemendikbud RI. (2020). *Keputusan Menteri Pendidikan Dan Kebudayaan Republik Indonesia Nomor 754/P/2020 Tentang Indikator Kinerja Utama Perguruan Tinggi Negeri Dan Lembaga Layanan Pendidikan Tinggi Di Lingkungan Kementerian Pendidikan Dan Kebudayaan Tahun 2020*. <https://jdih.kemdikbud.go.id/>
- Khamzina, S., Khassenova, M., & Kassenova, Z. (2020). *The formation of chemical literacy through environmental competencies in the application of case technology*. 132, 150-155. <https://doi.org/10.32523/2616-6895-2020-132-3-150-155>.
- Kim, H. B., Fisher, D. L., & Fraser, B. J. (2000). Classroom environment and teacher interpersonal behaviour in secondary science classes in Korea. *Evaluation & Research in Education*, 14(1), 3-22.
- King, F.J., Goodson, L., M.S., dan Rohani, F., 2010, *Higher Order Thinking Skills. Assessment dan Evaluation Educational Service Program*.
- Kulshrestha, R. (2021). *Effective Use of Case Method as a Pedagogical Tool. Book Chapter: Case Method for Digital Natives*. India: Bloomsbury Publishing
- Kunto, S. A. (2010). *Prosedur Penelitian Suatu Pendekatan Praktek*. Jakarta: Rineka Cipta.
- Lei, Y., Zhao, Y., & Luo, Y. (2016). Understanding and implementation of case teaching method. *Cross-Cultural Communication*, 12(5), 45-49.
- Malik, F., Farooq, B., Khan, M., Qureshi, Z., Ayub, M., Sahu, E., Bukhari, H., & Raza, T. (2023). Using Case Based Learning To Foster Critical Learning In Medical Biochemistry. *Biological and Clinical Sciences Research Journal*. <https://doi.org/10.54112/bcsrj.v2023i1.289>.

- Marín-García, J., & Marín-García, J. (2013). Mechanisms of bioenergy production in mitochondria. *Mitochondria and Their Role in Cardiovascular Disease*, 99-121.
- Meyer, K., Kushi, L., Jacobs, D., Slavin, J., Sellers, T., & Folsom, A. (2000). Carbohydrates, dietary fiber, and incident type 2 diabetes in older women. *The American journal of clinical nutrition*, 71(4), 921-30. <https://doi.org/10.1093/AJCN/71.4.921>.
- Mohan, V., Unnikrishnan, R., Shobana, S., Malavika, M., Anjana, R., & Sudha, V. (2018). Are excess carbohydrates the main link to diabetes & its complications in Asians? *The Indian Journal of Medical Research*, 148, 531 - 538. https://doi.org/10.4103/ijmr.IJMR_1698_18.
- Mohapatra, D. P. & Zayapragassarazan, Z., (2021). Effective Learner Engagement Strategies in Visual Presentations. *Online Submission*, 8(1), 2-11.
- Niaz, K., Khan, F., & Shah, M. A. (2020). Analysis of carbohydrates (monosaccharides, polysaccharides). In *Recent advances in natural products analysis* (pp. 621-633). Elsevier.
- Nikolskaya, O. (2020). Choosing Appropriate Forms, Methods, and Study AIDS. *International journal of social sciences*, 4, 69-76. <https://doi.org/10.29332/IJSSH.V4N2.409>.
- Nofrion, N. (2022). *Penerapan Case Method Dan Team Based Project Dalam Pembelajaran Di Perguruan Tinggi*. <https://osf.io>
- Noor, J. (2017). *Metodologi penelitian, skripsi, tesis, disertasi dan karya ilmiah*. Jakarta: Kencana.
- Nugroho, A., Bramasta, D., & Pamijo. (2018). The Implementation of Case Study Method to Develop Student's Activities and Characters. *Jurnal Sains Sosial dan Humaniora*, 2(2), 175-178. <https://doi.org/10.30595/jssh.v2i2.3349>
- Pellerin, L. (2010). Food for thought: the importance of glucose and other energy substrates for sustaining brain function under varying levels of activity. *Diabetes & metabolism*, 36 Suppl 3, S59-63. [https://doi.org/10.1016/S1262-3636\(10\)70469-9](https://doi.org/10.1016/S1262-3636(10)70469-9).
- Prince, M. (2004). Does active learning work? A review of the research. *Journal of engineering education*, 93(3), 223-231.
- Purnama, Sigit. (2022). Case Method Dan Team-Based Project: Konsep dan Implementasi dalam Pembelajaran di Jurusan Ekonomi Pembangunan. *Publikasi Media*. <https://piaud.uin-suka.ac.id/>

- Puspasari, H., & Puspita, W. (2022). Uji Validitas dan Reliabilitas Instrumen Penelitian Tingkat Pengetahuan dan Sikap Mahasiswa terhadap Pemilihan Suplemen Kesehatan dalam Menghadapi Covid-19. *Jurnal Kesehatan*, 13(1), 65-71.
- Putra, N., & Hendarman (2013). *Metode Riset Campur Sari: Konsep, Strategi, dan Aplikasi*. Jakarta: PT Indeks.
- Rahmadi, M. T., Nurman, A., Yuniastuti, E., Pinem, M., Berutu, N., Maulia, T., ... & Saqina, D. (2022). Analisis Penerapan Case Method dan Team Based Project Dalam Kebijakan Jurusan di Universitas Negeri Medan. *Publikauma: Jurnal Administrasi Publik Universitas Medan Area*, 10(2), 137-143.
- Reddy, S. (2020). Role of Carbohydrates in Food. *Journal of Glycobiology*, 9, 1-2. <https://doi.org/10.35248/2168-958X.20.9.147>.
- Seknun, M. F. (2013). Strategi Pembelajaran. *BIOSEL (Biology Science and Education): Jurnal Penelitian Science dan Pendidikan*, 2(2), 120-128.
- Schmidt, H. G., Gibbons, M., & Bligh, J. (1996). The role of tutors in problem-based learning: A comparison of student-led and teacher-led groups. *Medical Education*, 30(6), 448-452. doi:10.1111/j.1365-2923.1996.tb00856.x
- Schreiber, J., & Asner-Self, K. (2011). *Educational research: The interrelationship of questions, sampling, design, and analysis*. Wiley.
- Shiyan, W. (2010, May). Teaching methods for a school-based curriculum. In *2010 International Conference on Networking and Digital Society* (Vol. 2, pp. 508-511). IEEE. <https://doi.org/10.1109/ICNDS.2010.5479445>.
- Sugiyono. 2017. *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung : Alfabeta, CV
- Sujarweni, V. W. (2015). *Metodologi Penelitian Bisnis & Ekonomi*. Pustaka baru press.
- Sundari, Suparman, Mas'ud, A., Hasan, S., Nurhasanah, Papuangan, N., Taher, D. M., & Yusuf, Y. (2023). Case method to increase student participation and problem-solving skills in biochemistry subject lesson study integrated at Khairun University. *BIO-INOVED : Jurnal Biologi-Inovasi Pendidikan*, 5(1), 42–48. <https://doi.org/10.20527/bino.v5i1.14747>
- Taegtmeyer, H. (2014). A Primer on Carbohydrate Metabolism in the Heart. *Cardiac Energy Metabolism in Health and Disease*, 3-14. https://doi.org/10.1007/978-1-4939-1227-8_1
- Tashandra, N. (2024). *Waspada, Diabetes Intai Anak yang Doyan Minuman Tinggi Gula*. https://lifestyle.kompas.com/read/2024/02/20/160500420/waspada-diabetes-intai-anak-yang-doyan-minuman-tinggi-gula?lgn_method=google

- Thornhill-Miller, B., Camarda, A., Mercier, M., Burkhardt, J. M., Morrisseau, T., Bourgeois-Bougrine, S., ... & Lubart, T. (2023). Creativity, critical thinking, communication, and collaboration: assessment, certification, and promotion of 21st century skills for the future of work and education. *Journal of Intelligence*, 11(3), 54.
- Utami, D. S., & Appulembang, O. D. (2022). Pembentukan Kelompok Belajar untuk Siswa pada Pembelajaran Daring. *Sukma: Jurnal Pendidikan*, 6(1), 35-60.
- Vygotsky, L. S., & Cole, M. (1978). *Mind in society: Development of higher psychological processes*. Harvard university press.
- Werdiningsih, D., & Wahyuni, S. (2021). *Pembelajaran Aktif dengan Case Method*. Malang: Literasi Nusarantara Abadi
- Weston, C., & Cranton, P. (1986). Selecting Instructional Strategies. *The Journal of Higher Education*. <https://doi.org/10.1080/00221546.1986.11778771>.
- Wu, Y.,. (2011). On the implementation of case teaching method. *Journal of Changchun University*. n pg
- Yousuf, B., & Conlan, O. (2017). Supporting student engagement through explorable visual narratives. *IEEE Transactions on Learning Technologies*, 11(3), 307-320.