

DAFTAR PUSTAKA

- [1] Z. Sya'roni and T. Rijanto, "Analisis Ketidakseimbangan Beban Transformator Distribusi 20 kV Dan Solusinya Pada Jaringan Tegangan Rendah," *Tek. Elektro*, vol. 8, no. 1, pp. 173–180, 2019.
- [2] M. Patilima, "Pengaruh Ketidakseimbangan Beban Terhadap Losses dan Pembebanan Transformator Distribusi," *J. Electr.*, vol. 11, no. 01, pp. 20–28, 2022, doi: 10.37195/electrichsan.v11i01.85.
- [3] S. Nojeng, J. JAYA, and R. MURNIATI, "Sistim Deteksi Dini Ketidak Seimbangan Beban Tiga Phasa Bebasis Arduino Pada Panel Hubung Tegangan Rendah," *J. Instek Inform. Sains dan Teknol.*, vol. 4, no. 1, pp. 88–100, 2023.
- [4] "IEEE Std C57.12.00-2015, IEEE Standard for General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers, 2015", doi: <https://doi.org/10.1109/IEEESTD.2015.7363403>.
- [5] I. Tawakal, A. Rofii, and R. A. Kusuma, "Perencanaan Jaringan Distribusi Listrik Bawah Tanah Pada Cluster Xyz," *J. Kaji. Tek. Elektro*, vol. 8, no. 2, pp. 53–64, 2023, doi: 10.52447/jkte.v8i2.6754.
- [6] A. E. Fitzgerald, C. Kingsley, and S. D. Umans, "Electric machinery," 2003.
- [7] T. Electrical and E. Handbook, *The Electrical Engineering Handbook - Six Volume Set*. 2018. doi: 10.1201/9781315219677.
- [8] Z. B. Abilovani, W. Yahya, and F. A. Bakhtiar, "Implementasi Protokol MQTT Untuk Sistem Monitoring Perangkat IoT," *J. Pengemb. Teknol. Inf. dan Ilmu Komput.*, vol. 2, no. 12, pp. 7521–7527, 2018, [Online]. Available: <http://j-ptiik.ub.ac.id>
- [9] H. Hu, H. Shen, and Q. Pu, "Design and implementation of high-precision voltage measurement system based on Kalman filter and automatic calibration technology," *Measurement*, vol. 204, p. 112126, 2022.
- [10] Fenty Pandansari, H. Prasetyo, and Y. T. Tularsih, "Analisa Pengembangan Sistem Pemantau Daya Listrik Berbasis IoT," *J. Tek.*, vol. 19, no. 2, pp. 120–129, 2021, doi: 10.37031/jt.v19i2.185.
- [11] S. Nirwan and H. MS, "Rancang Bangun Aplikasi Untuk Prototipe Sistem Monitoring Konsumsi Energi Listrik Pada Peralatan Elektronik Berbasis Pzem-004T," *Tek. Inform.*, vol. 12, no. 2, pp. 22–28, 2020.
- [12] D. Adityawarman, Y. Rahajo, and L. Hakim, "Rancang Bangun Alat Ukur Arus Menggunakan Transformator Arus Berbasis Mikrokontroler Atmega32," *Electrician*, vol. 8, no. 2, pp. 45–56, 2014, [Online]. Available: <https://electrician.unila.ac.id/index.php/ojs/article/view/113>
- [13] D. Hercog, T. Lerher, M. Truntič, and O. Težak, "Design and Implementation of ESP32-Based IoT Devices," *Sensors*, vol. 23, no. 15,

2023, doi: 10.3390/s23156739.

- [14] A. Refalista, R. Irawati, I. Irawan, and T. W. Wisjhnuadji, “Penggunaan Sensor MQ-2,4,7,135 dan ESP32 Untuk Air Pollution Monitoring Berbasis Internet of Things,” *J. Ticom Technol. Inf. Commun.*, vol. 12, no. 1, pp. 31–36, 2023, doi: 10.70309/ticom.v12i1.104.
- [15] R. Pasic, I. Kuzmanov, and K. Atanasovski, “ESP-NOW communication protocol with ESP32,” *Izzivi prihodnost*, vol. 6, no. 1, pp. 53–60, 2021, doi: 10.37886/ip.2021.019.
- [16] H. Hieu, “Design and Implementation of a BLE Gateway Using ESP32 Chipset,” 2023, [Online]. Available: https://www.theseus.fi/bitstream/handle/10024/799421/HoangHieu_Thesis.pdf?sequence=2
- [17] A. R. Bhavya and K. M. Sudharshan, “Optimizing Energy Efficiency in Battery-powered IoT Devices through Hardware Optimization and Voltage Scaling,” *Eng. Technol. Appl. Sci. Res.*, vol. 15, no. 2, pp. 21769–21773, 2025, doi: 10.48084/etasr.9640.
- [18] M. N. Nizam, Haris Yuana, and Zunita Wulansari, “Mikrokontroler Esp 32 Sebagai Alat Monitoring Pintu Berbasis Web,” *JATI (Jurnal Mhs. Tek. Inform.*, vol. 6, no. 2, pp. 767–772, 2022, doi: 10.36040/jati.v6i2.5713.
- [19] R. B. S. Bayu, R. P. Astutik, and D. Irawan, “Rancang Bangun Smarthome Berbasis Qr Code Dengan Mikrokontroller Module Esp32,” *JASEE J. Appl. Sci. Electr. Eng.*, vol. 2, no. 01, pp. 47–60, 2021, doi: 10.31328/jasee.v2i01.60.
- [20] E. Abduraimov and D. Khalmanov, “Development of contactless solid state voltage relay,” *E3S Web Conf.*, vol. 216, pp. 4–6, 2020, doi: 10.1051/e3sconf/202021601106.
- [21] A. H. Okilly, N. Kim, J. Lee, Y. Kang, and J. Baek, “Development of a Smart Static Transfer Switch Based on a Triac Semiconductor for AC Power Switching Control,” *Energies*, vol. 16, no. 1, 2023, doi: 10.3390/en16010526.
- [22] V. Gurevich, “The International Standard on Solid-State Relays (IEC 62314, Ed. 1) Critical Review,” 2020.
- [23] “20. SSR-F-10DA.PDF.”
- [24] H. L. Tsai, L. P. Truong, and W. H. Hsieh, “Design and Evaluation of Wireless Power Monitoring IoT System for AC Appliances †,” *Energies*, vol. 16, no. 1, 2023, doi: 10.3390/en16010163.
- [25] K. Raju, D. Sandeep, G. Sireesha, S. K. Saidulu, P. Siva, and C. H. N. Reddy, “Remote power monitoring system using micro controller”.
- [26] “Bipolar AD , $U_{max}= 2$,” pp. 2–5.
- [27] D. E. Juliando, R. G. Putra, D. A. Sartika, and R. G. P. Yudha, “Study of Lora Module Ra-02 for Long Range, Low Power, Low Rate Picture Transfer

- Applications,” *J. Phys. Conf. Ser.*, vol. 1845, no. 1, 2021, doi: 10.1088/1742-6596/1845/1/012054.
- [28] Shenzhen Ai-Thinker, “Ra-02 Lora Module,” pp. 1–2, 2017.
- [29] L. M. Pires, J. Martins, L. M. Pires, and J. Martins, “Experimental Study on the Importance of Interference in the Spreading Factor and Effects of Collisions for the LoRaWAN Radio Interface Interference in the Spreading Factor and Effects of Collisions for the LoRaWAN Radio Interface,” 2024, doi: 10.20944/preprints202406.0538.v1.
- [30] A. OO and O. TT, “Design and Implementation of Arduino Microcontroller Based Automatic Lighting Control with I2C LCD Display,” *J. Electr. Electron. Syst.*, vol. 07, no. 02, 2018, doi: 10.4172/2332-0796.1000258.
- [31] H. Technology, “I2C Serial Interface 20x4 LCD Module,” *Datasheet LCD 20X4 I2C Ser. Interface*, pp. 1–26, 2019, [Online]. Available: www.handsontec.com
- [32] M. Iffikrul, A. Suhaidi, N. Hidayah, and M. Yunus, “Development of Blynk IoT-Based Air Quality Monitoring System,” *J. Eng. Technol.*, vol. 9, no. January, pp. 63–68, 2021.
- [33] A. B. B. I. N. M. ADAM, “SMART SOCKET IOT WITH BLYNK,” 2023.
- [34] M. A. Kamarudin, N. H. M. Yunus, M. R. A. Razak, M. S. M. Nadzir, and K. M. Alhasa, “Development of Blynk IoT platform weather information monitoring system,” in *Advanced Materials and Engineering Technologies*, Springer, 2022, pp. 295–305.
- [35] H. Wang, S. Frisco, E. Gottlieb, R. Yuan, and J. F. Whitacre, “Capacity degradation in commercial Li-ion cells: The effects of charge protocol and temperature,” *J. Power Sources*, vol. 426, pp. 67–73, 2019, doi: <https://doi.org/10.1016/j.jpowsour.2019.04.034>.
- [36] Y. Chen, “Recent advances of overcharge investigation of lithium-ion batteries,” *Ionics (Kiel)*, vol. 28, no. 2, pp. 495–514, 2022.
- [37] I. Msiza and M. Haffeejee, “MCBs versus Fuses in Low-Voltage Applications: Critical Analysis Using the 3-AND Convergence Classifier,” *arXiv Prepr. arXiv0709.3594*, no. October 2007, pp. 2–7, 2007.
- [38] B. Yoshia Sirus, “Analysis of the Influence of Country of Origin, Brand Awareness, and Perceived Price on The Purchase Decision of MCB Client Products with Perceived Quality as A Mediating Variable,” *J. Soc. Sci.*, vol. 2, no. 6, pp. 488–506, 2023, doi: 10.57185/joss.v2i6.94.
- [39] “IEEE Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications,” 1996. doi: 10.1109/IEEESTD.1996.85950.