

DAFTAR PUSTAKA

- [1] R. K. Kodali, M. S. Kuthada, and Y. K. Yogi Borra, “LoRa based smart irrigation system,” *2018 4th International Conference on Computing Communication and Automation, ICCCA 2018*, pp. 1–5, 2018.
- [2] L. Power, L. Range, and T. Module, “Rfm95w/96w/98w,” pp. 1–123.
- [3] P. Provinsi, D. Khusus, and I. Jakarta, “Buku Data Status Lingkungan Hidup Daerah Provinsi Daerah Khusus Ibukota Jakarta Tahun 2010,” 2010.
- [4] Badan Pusat Statistik, “Statistik Lingkungan Hidup Indonesia 2018,” *Badan Pusat Statistik/BPS Statistics Indonesia*, pp. 1–43, 2018. [Online]. Available: <https://www.bps.go.id/publication/2018/12/07/d8cbb5465bd1d3138c21fc80/statistik-lingkungan-hidup-indonesia-2018.html>
- [5] A. V. Perdana, “Ratusan Warga Diduga Terdampak Gas Limbah Beracun, Malaysia Liburkan 34 Sekolah,” 2019. [Online]. Available: <https://internasional.kompas.com/read/2019/03/13/19303541/ratusan-warga-diduga-terdampak-gas-limbah-beracun-malaysia-liburkan-34>
- [6] L. Y. Li, H. Jaafar, and N. H. Ramli, “Preliminary Study of Water Quality Monitoring Based on WSN Technology,” *2018 International Conference on Computational Approach in Smart Systems Design and Applications (ICAS-SDA)*, pp. 1–7, 2018.
- [7] Peraturan Pemerintah, “Peraturan Pemerintah Republik Indonesia Nomor 82 Tahun 2001,” *Peraturan Pemerintah Republik Indonesia*, no. 1, pp. 1–5, 2001. [Online]. Available: <https://www.google.com/url?sa=t&{&}>

rct=j{&}q={&}esrc=s{&}source=web{&}cd=1{&}cad=rja{&}uact=8{&}ved=2ahUKEwjWxrKeif7eAhVYfysKHcHWAOwQFjAAegQICRAC{&}url=https{>}3A{>}2F{>}2Fwww.ojk.go.id{>}2Fid{>}2Fkanal{>}2Fpasar-modal{>}2Fregulasi{>}2Fundang-undang{>}2FDocuments{>}2FPages{>}2Fundang-undang-nomo

- [8] Menteri Kesehatan Republik Indonesia, “Peraturan Menteri Kesehatan Republik Indonesia Nomor 32 Tahun 2017 Tentang Standar Baku Mutu Kesehatan Lingkungan Dan Persyaratan Kesehatan Air Untuk Keperluan Higiene Sanitasi, Kolam Renang, Solus Per Aqua dan Pemandian Umum,” *Peraturan Menteri kesehatan Republik Indonesia*, pp. 17–20, 2017.
- [9] F. Amani and K. Prawiroedjo, “70664-ID-alat-ukur-kualitas-air-minum-dengan-para,” vol. 14, pp. 49–62, 2016.
- [10] Y. A. Tarigan, U. Sunarya, A. Novianti, F. I. Terapan, U. Telkom, and K. Ukur, “Rancang Bangun Kapal Ukur Kualitas Air Menggunakan Metode Modified Fuzzy Ship Design To Measure Water Quality Using Modified Fuzzy.”
- [11] A. W. Utami, “Kualitas Air Sungai Citarum,” *Journal of Chemical Information and Modeling*, vol. 53, no. 9, pp. 1689–1699, 2013.
- [12] S. Singh and N. Singh, “Internet of Things (IoT): Security challenges, business opportunities & reference architecture for E-commerce,” *Proceedings of the 2015 International Conference on Green Computing and Internet of Things, ICGCIoT 2015*, pp. 1577–1581, 2016.
- [13] R. Ratasuk, N. Mangalvedhe, and A. Ghosh, “Overview of LTE enhancements for cellular IoT,” *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC*, vol. 2015-December, pp. 2293–2297, 2015.

- [14] A. Rudi, A. Saputra, M. A. Murti, and I. Alinursafa, “SISTEM MONITORING KUALITAS AIR SUNGAI BERBASIS INTERNET OF THINGS (IOT) MENGGUNAKAN LPWAN LORA RIVER WATER QUALITY MONITORING SYSTEM BASED INTERNET OF THINGS (IOT) USING LPWAN LORA.”
- [15] A. Augustin, J. Yi, T. Clausen, and W. M. Townsley, “A Study of LoRa : Long Range & Low Power Networks for the Internet of Things,” pp. 1–18, 2016.
- [16] P. Devi, D. Istianti, and N. Bogi, “PERANCANGAN DAN IMPLEMENTASI DEVICE TENTANG TEKNOLOGI AKSES LPWAN LORA UNTUK MONITORING AIR SUNGAI CITARUM DEVICE DESIGN AND IMPLEMENTATION ABOUT LPWAN LORA ACCESS TECHNOLOGY FOR CITARUM RIVER WATER MONITORING.”
- [17] Kementerian Komunikasi dan Informatika Republik Indonesia, “Peraturan Direktur Jenderal SDPPI No. 3 Tahun 2019 Tentang Persyaratan Teknis Alat dan/atau Perangkat Telekomunikasi Low Power Wide Area,” p. 38, 2019.
- [18] T. M. Workgroup, “A technical overview of LoRa ® and LoRaWAN What is it?” no. November, 2015. [Online]. Available: <https://lora-alliance.org/resource-hub/what-lorawantm>
- [19] M. Yunus, “#3 LoRaWAN — LoRa MAC Layer. Apa itu LoRaWAN? — by Muhammad Yunus — Medium.” [Online]. Available: <https://medium.com/@yunusmuhammad007/3-lorawan-lora-mac-layer-bb2778244ba7>
- [20] E. Ihsanto and S. Hidayat, “Rancang Bangun Sistem Pengukuran Ph Meter Dengan Menggunakan Mikrokontroller Arduino UNO,” *Teknologi Elektro*, vol. 5, no. 3, pp. 139–146, 2014.
- [21] S. Rangkuti, *Arduino & Proteus Simulasi Dan Praktik*. Bandung: Penerbit Informatika Bandung, 2016.

- [22] H. Effendi, *Telaah kualitas air, bagi pengelolaan sumber daya dan lingkungan perairan.* Kanisius, 2003.
- [23] American Water Works Association, *Water Quality.* Denver, CO : American Water Works Association, 2003.
- [24] S. Khodijah, R. M. Rumani, and U. Sunarya, “Perancangan Dan Implementasi Alat Ukur Untuk Penentuan Kualitas Air Berbasis Logika Fuzzy Metode Sugeno Design and Implementation Tools To Measure for Determination of Water Quality Based on Fuzzy Logic Sugeno Method,” vol. 4, no. 2, pp. 2207–2212, 2017.
- [25] A. Khusaeri and M. Rivai, “Rancang Bangun Sistem Kontrol Total Dissolved Solid Berbasis Mikrokontroler,” pp. 1–6.
- [26] D. Tori, N. Nurhasanah, and A. Ihwan, “Identifikasi Kualitas Air Sungai Sebaloi Di Kabupaten Bengkayang Berdasarkan Nilai TDS , pH , dan Nilai Konduktivitas Air,” *Prisma Fisika*, vol. IV, no. 01, pp. 1–5, 2016.
- [27] A. Parastiwi, C. Rahmad, A. N. Rahmanto *et al.*, *Pemrograman Spreadsheets Untuk Pemodelan Kontrol Rangkaian Elektronika.* UPT Percetakan dan Penerbitan Polinema, 2018, vol. 1.
- [28] H. Shan, “DS18B20 Waterproof Temperature Sensor Cable,” *Www.Terraelectronica.Ru*, pp. 0–2, 2017. [Online]. Available: https://www.terraelectronica.ru/pdf/show?pdf{_}file={%}2Fz{%}2FDatasheet{%}2F1{%}2F1420644897.pdf
- [29] A. Arifin, I. Irwan, B. Abdullah, and D. Tahir, “Design of sensor water turbidity based on polymer optical fiber,” *Proceedings - 2017 International Seminar on Sensor, Instrumentation, Measurement and Metrology: Innovation for the Advancement and Competitiveness of the Nation, ISSIMM 2017*, vol. 2017-January, pp. 146–149, 2017.

- [30] M. Martani and J. Fisika, “PERANCANGAN DAN PEMBUATAN SENSOR LEVEL UNTUK SISTEM KONTROL PADA PROSES PENGENDAPAN CaCO 3 DALAM AIR DENGAN METODE MEDAN MAGNET,” vol. 2, no. 2, pp. 1–5, 2014.
- [31] J. Enterprise, *Step by Step ponsel android*. Elex Media Komputindo, 2013.
- [32] S. RAHMAWATI, “Simulasi membuka, menutup pintu dan menghidupkan mesin mobil menggunakan android,” Ph.D. dissertation, Politeknik Negeri Sriwijaya, 2015.
- [33] S. C. Pokress and J. J. D. Veiga, “MIT App Inventor: Enabling Personal Mobile Computing,” pp. 0–2, 2013. [Online]. Available: <http://arxiv.org/abs/1310.2830>
- [34] N. K. E. Kartika, M. A. Murti, and C. Setianingsih, “Floods prediction using radial basis function (RBF) based on internet of things (IoT),” *Proceedings - 2019 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology, IAICT 2019*, pp. 125–128, 2019.
- [35] DFRobot, “PH meter(SKU: SEN0161),” *DFRobot*, 2017. [Online]. Available: [https://www.dfrobot.com/wiki/index.php/PH_{_}meter\(SKU:{_}SEN0161\)](https://www.dfrobot.com/wiki/index.php/PH_{_}meter(SKU:{_}SEN0161))
- [36] DFRobot Electronic, “Turbidity sensor SKU: SEN0189,” *DFRobot Electronic*, p. 4, 2018.
- [37] DFRobot, “Gravity__Analog_TDS_Sensor__Meter_For_Arduino_SKU__SEN0244-DFRobot,” 2020. [Online]. Available: https://wiki.dfrobot.com/Gravity_{_}{_}Analog_{_}TDS_{_}Sensor_{_}{_}{_}Meter_{_}{_}For_{_}{_}Arduino_{_}{_}SKU_{_}{_}{_}SEN0244