

DAFTAR PUSTAKA

- Abinaya, T., Ishwarya, J., & Maheswari, M. (2019). A Novel Methodology for Monitoring and Controlling of Water Quality in Aquaculture using Internet of Things (IoT). *2019 International Conference on Computer Communication and Informatics, ICCCI 2019*, 1–4. <https://doi.org/10.1109/ICCCI.2019.8821988>
- Adharani, N., Soewardi, K., Dhamar Syakti, A., & Hariyadi, S. (2016). Water Quality Management Using Bioflocs Technology: Catfish Aquaculture (*Clarias sp.*). *Jurnal Ilmu Pertanian Indonesia*, *21*(1), 35–40. <https://doi.org/10.18343/jipi.21.1.35>
- Ahamed, I., & Ahmed, A. (2021). Design of Smart Biofloc for Real-Time Water Quality Management System. *International Conference on Robotics, Electrical and Signal Processing Techniques*, 298–302. <https://doi.org/10.1109/ICREST51555.2021.9331166>
- Ajayi, O. O., Bagula, A. B., Maluleke, H. C., Gaffoor, Z., Jovanovic, N., & Pietersen, K. C. (2022). WaterNet: A Network for Monitoring and Assessing Water Quality for Drinking and Irrigation Purposes. *IEEE Access*, *10*, 48318–48337. <https://doi.org/10.1109/ACCESS.2022.3172274>
- Androva, A. (2017). *Studi Peningkatan Kadar Dissolved Oksigen Air , Setelah di Injeksi Dengan Aerator Kincir Angin Savonius Arreus , Menggunakan DO Meter Type Lutron DO-5510*. *3*(2).
- Ansarullah, D., & Nurwarsito, H. (2022). *Monitoring Kualitas Air pada Tambak Udang berbasis Internet of Things dengan Protokol Komunikasi ZigBee*. *6*(2), 615–624.
- Badan Standardisasi Nasional. (2009). *SNI 7550:2009 Produksi Ikan Nila (*Oreochromis niloticus*) Kelas Pembesaran di Kolam Air Tenang*.
- Barat, U. S. (2023). *Pemberian pakan Ikan Nila Otomatis Serta Mengecek Suhu dan Kadar pH Air Berbasis Internet of Things (IoT)*. *11*(3).
- Bhirawa, W. (2015). Penggunaan Google Sketch Up Software Dalam Merancang Kopleng Flens. *Jurnal Teknologi Industri*, *4*(1), 1–7.
- Branch, R. M. (2009). Approach, Instructional Design: The ADDIE. In *Department of Educational Psychology and Instructional Technology University of Georgia* (Vol. 53, Issue 9).
- Chandra, A. B., S.J., A., K. Dina, N., A., M., & Zainuri, M. (2020). *Karakteristik Ikan Nila (*Oreochromis niloticus*) dan Ikan Lele (*Clarias sp.*) Pada Fase Rigor Mortis. pH 7*, 8–11.
- Dallas. (2018). DS18B20 Programmable Resolution 1-Wire Digital Thermometer. *Datasheet DS18B20*, 1–27.
- DFRobot. (2017). *Sen0244*.

https://wiki.dfrobot.com/Gravity__Analog_TDS_Sensor___Meter_For_Arduino_SKU__SEN0244

- DFRobot. (2022). Gravity: Analog Dissolved Oxygen Sensor. https://Wiki.Dfrobot.Com/Gravity__Analog_Dissolved_Oxygen_Sensor_SKU__SEN0237, 1–1.
- Eka, I. (2021). Pola Pertumbuhan Ikan Nila (*Oreochromis niloticus*) Hasil Budidaya Masyarakat di Desa Bangun Sari Baru Kecamatan Tanjung Morawa. *Jurnal Jeumpa*, 7(2), 443–449. <https://doi.org/10.33059/jj.v7i2.3839>
- Emerson, K., Russo, R. C., Lund, R. E., & Thurston, R. V. (1975). Aqueous Ammonia Equilibrium Calculations: Effect of pH and Temperature. *Journal of the Fisheries Research Board of Canada*, 32(12), 2379–2383. <https://doi.org/10.1139/f75-274>
- Encinas, C., Ruiz, E., Cortez, J., & Espinoza, A. (2017). Design and implementation of a distributed IoT system for the monitoring of water quality in aquaculture. *Wireless Telecommunications Symposium*. <https://doi.org/10.1109/WTS.2017.7943540>
- Gatjal, E., Balogh, Z., & Hluchy, L. (2020). Concept of Energy Efficient ESP32 Chip for Industrial Wireless Sensor Network. *INES 2020 - IEEE 24th International Conference on Intelligent Engineering Systems, Proceedings*, 179–183. <https://doi.org/10.1109/INES49302.2020.9147189>
- Halil, H., & Nur, K. M. (2023). Karakter Kualitas Air Pada Kultur Ikan Menggunakan Undergravel Airlift Pump. *Jurnal Javanica*, 2(1), 1–12. <https://doi.org/10.57203/javanica.v2i1.2023.1-12>
- Helwig, N. E., Hong, S., & Hsiao-wecksler, E. T. (n.d.). *Manajemen Lingkungan Hidup untuk Akuakultur*.
- Herlinda, S., Said, M., Gofar, N., Pratama, F., Sulastri, Inderawati, R., Putri, R. I. I., & Nurhayati. (2010). Metodologi Penelitian. *Lembaga Penelitian Universitas Sriwijaya*, 12–13.
- Id, P., Pipe, N., & Channel, N.-. (2007). Plastic Water Solenoid Valve - 12V - 1 / 2 " Nominal. *Data Sheet*, 997, 1–2.
- Information, D. (2021). *TL08xx FET-Input Operational Amplifiers*. 082(December).
- Jobs, M. D. (n.d.). *Establishing a monitoring system* (Monitoring). International Labour Organization.
- Kelautan, K., Perikanan, D. A. N., Jenderal, D., & Budidaya, P. (2020). *Standar Oprasional Prosedur Pembesaran Ikan Nila (Oreochromis niloticus)*.
- Krasnovsky, A. A., Kozlov, A. S., Benditkis, A. S., & Goncharov, S. E. (2020). Oxygen activation in aerated solvents by red and infrared laser radiation: Measurement of the absorption spectra of dissolved oxygen molecules. *Proceedings - International Conference Laser Optics 2020, ICLO 2020*,

84(Iclo 2018), 2021. <https://doi.org/10.1109/ICLO48556.2020.9285531>

- Krisnati Dewi, N. P. A., Arthana, I. W., & Kartika, G. R. A. (2022). Pola Kematian Ikan Nila Pada Proses Pendederan Dengan Sistem Resirkulasi Tertutup Di Sebatu, Bali. *Jurnal Perikanan Unram*, 12(3), 323–332. <https://doi.org/10.29303/jp.v12i3.323>
- Kurniaji, A., Yunarty, Y., Anton, A., Usman, Z., Wahid, E., & Rama, K. (2021). Pertumbuhan dan Konsumsi Pakan Ikan Nila (*Oreochromis niloticus*) yang Dipelihara dengan Sistem Bioflok. *Sains Akuakultur Tropis*, 5(2), 197–203. <https://doi.org/10.14710/sat.v5i2.11824>
- Mukrimaa, S. S., Nurdyansyah, Fahyuni, E. F., YULIA CITRA, A., Schulz, N. D., غسان, د., Taniredja, T., Faridli, E. M., & Harmianto, S. (2016). Parameter Fisika dan Kimia Air Kolam Ikan Nila Hitam (*Oreochromis niloticus*). *Jurnal Penelitian Pendidikan Guru Sekolah Dasar*, 6(August), 128.
- Mutia, A., & Razak, A. (2018). Effect of Giving Fermented Liquid Areca Cathecu L. and Surian Leaves (*Toona sinensis* ROXB.) on Tilapia Wounds (*Oreochromis niloticus* L.). *Jurnal Bio Sains*, 1(1), 42.
- Nextion. (2022). *The Nextion Editor Guide.pdf* (p. 55).
- Noise, U. L., & Op-amps, R. Z. (n.d.). *Tp5551 / Tp5552 / Tp5554*. 1–15.
- Ogata, K. (1984). *Teknik Kontrol Automatik(Sistem Pengaturan) Jilid 1*. 389.
- OMRON Electronics. (2019). Technical Explanation for General-purpose Relays. *Technical Explanations*, 26.
- Package, P. T., Filters, A., Interface, S., Instruments, P., Device, M., Output, A., Equipment, M., Electrical, P., & Amplifier, T. (n.d.). *Lmv321a/lmv358a/lmv324a 80*. 1–19.
- Panggabean, T. K., Sasanti, A. D. S., & Yulisman. (2016). Kualitas Air, Kelangsungan Hidup, Pertumbuhan dan Efisiensi Pakan Ikan Nila. *Jurnal Akuakultur Rawa Indonesia*, 9(1), 163–168.
- Park, T., Economic, H., & Area, D. (n.d.). *pH electrode / ORP electrode Datasheet*.
- Peter, C. (2018). Servo Motor SG90. *Micro Motor*, 1(2), 180. http://www.ee.ic.ac.uk/pcheung/teaching/DE1_EE/stores/sg90_datasheet.pdf
- Peternakan, Perikanan dan Kehutanan, D. S. (2023). *Statistik Perusahaan Budidaya Ikan. 1*.
- Radi Ihlal Albani, Budiardi, T., Yani Hadiroseyani, & Julie Ekasari. (2023). Production Performance of Nile Tilapia *Oreochromis Niloticus* and Mineral Balance in Aquaponic, Biofloc, and Aquabioponic Culture Systems. *Jurnal Akuakultur Indonesia*, 22(1), 66–79. <https://doi.org/10.19027/jai.22.1.66-79>
- Relay, S. (2018). Sngle Relay. *Datasheet*, 5–6.
- Rohman, T., E, Y. T. W. K., Leksani, W. I., & Chandrawati, D. (2011). *Pengaruh*

Perbedaan Salinitas Air Terhadap Survival Rate dan Respon Fisiologis Benih Ikan Nila (Oreochromis niloticus).

Schs, H. S., October, R., Cd, T., & Incorporated, T. I. (2003). *Data sheet acquired from Harris Semiconductor SCHS049C – Revised October 2003. October.*

Seed Studio. (n.d.). *Nextion Enhanced NX4024T032.*

Sheet, D., Instrumentation, P., Amplifiers, H., Low, O., & Systems, S. V. (2005). *CA3140 , CA3140A. 1–23.*

Sugiyono, D. (2013). *Metode Penelitian Kuantitatif, Kualitatif, dan Tindakan.*

Systems, E. (2018). *ESP32-WROOM-32 (ESP-WROOM-32) Datasheet. 32.*

Type, P., Description, G., & Table, D. S. (2002). *TC1121 Datasheet. 1–14.*

