

DAFTAR PUSTAKA

- Anika N, Mutmainah S, Kusmali M, Harmiansyah H, Marpaung DSS, Ridwan R. 2025. Water Productivity of Mustard Green (*Brassica juncea* L.) Under Drip Irrigation Systems and Organic Matter Addition. *J Tek Pertan Lampung (Journal Agric Eng.* 14(2):677. <https://doi.org/10.23960/jtep-l.v14i2.677-684>.
- Bappenas. 2025. Rencana Pembangunan Jangka Menengah Nasional (RPJMN) 2025–2029: Transformasi Ekonomi Berbasis Inovasi Teknologi dan Modernisasi Pertanian.
- Benyezza H, Bouhedda M, Rebouh S. 2021. Zoning irrigation smart system based on fuzzy control technology and IoT for water and energy saving. *J Clean Prod.* 302:127001. <https://doi.org/10.1016/j.jclepro.2021.127001>.
- Benzaouia M, Hajji B, Mellit A, Rabhi A. 2023. Fuzzy-IoT smart irrigation system for precision scheduling and monitoring. *Comput Electron Agric.* 215:108407. <https://doi.org/10.1016/j.compag.2023.108407>.
- Dani Rofianto, Eko Win Kenali, Khusnatul Amaliah, Jaka Fitra, Halim Fathoni, Tiara Kurnia Khoerunnisa, Hevia Purnama Sari. 2026. IoT-Based Smart Irrigation and Fertilization System with Realtime Cloud Integration. *J Nas Tek Elektro dan Teknol Inf.* 15(1):34–43. <https://doi.org/10.22146/jnteti.v15i1.23124>.
- FAO. 2025. *The State of the World's Land and Water Resources for Food and Agriculture 2025*. FAO.
- Fathy C, Ali HM. 2023. A Secure IoT-Based Irrigation System for Precision Agriculture Using the Expeditious Cipher. *Sensors.* 23(4):2091. <https://doi.org/10.3390/s23042091>.
- Ferrández-Pastor F-J, Mora-Pascual J, Díaz-Lajara D. 2022. Agricultural traceability model based on IoT and Blockchain: Application in industrial hemp production. *J Ind Inf Integr.* 29:100381. <https://doi.org/10.1016/j.jii.2022.100381>.
- Guerbaoui M, El Faiz S, Ed-Dahhak A, Lachhab A, Benhala B, Bakziz Z, Ichou I, Selmani A. 2025. From Data to Decisions: A Smart IoT and Cloud Approach to Environmental Monitoring. *E3S Web Conf.* 601:00008. <https://doi.org/10.1051/e3sconf/202560100008>.
- Gupta S, Chowdhury S, Govindaraj R, Amesho KTT, Shangdiar S, Kadhila T, Iikela S. 2025. Smart agriculture using IoT for automated irrigation, water and energy efficiency. *Smart Agric Technol.* 12:101081. <https://doi.org/10.1016/j.atech.2025.101081>.
- Hajj RFM, Atmaja DSE, Rachmat H. 2023. Perancangan Sistem Pengendalian Pendingin Ruangan Gedung Tult Berbasis IoT Menggunakan Metode V-Model. *e-Proceeding Eng.* 10(3):2799–2805. <https://garuda.kemdiktisaintek.go.id/documents/detail/3597025>.

Yusuf Martinus Arief, 2026

PROYEK: RANCANG BANGUN SISTEM MONITORING DAN KENDALI IRIGASI TETES PRESISI
DI LINGKUNGAN FIK UPNVJ BERBASIS WEB

UPN Veteran Jakarta, Fakultas Ilmu Komputer, S1 Informatika

www.upnvj.ac.id – www.library.upnvj.ac.id – www.repository.upnvj.ac.id

- HiveMQ H. 2024. MQTT Essentials The Ultimate Guide to the MQTT Protocol for IoT Messaging. *HiveMQ*., siap terbit. www.hivemq.com.
- Ikhsan Ali M, Suhardi, Haerani. 2024 Jun 24. Effectiveness of the Application of Drip Irrigation In Some Planting Media for Caisim (*Barassica juncea* L). *Salaga J.*, siap terbit.
- Karenza LS, Rhenaldy, Soewito B. 2025. Precision Agriculture: Soil Moisture-based IoT Drip Irrigation System to Optimize Water Usage for Aglaonema in Greenhouse Environment. *Int J Horti Sci Technol*. 12(4):1219–1228. <https://doi.org/10.22059/ijhst.2025.376832.852>.
- Lakhiar IA, Yan H, Zhang C, Wang G, He B, Hao B, Han Y, Wang B, Bao R, Syed TN, *et al*. 2024. A Review of Precision Irrigation Water-Saving Technology under Changing Climate for Enhancing Water Use Efficiency, Crop Yield, and Environmental Footprints. *Agriculture*. 14(7):1141. <https://doi.org/10.3390/agriculture14071141>.
- Liu X, Zhao Z, Rezaeipanah A. 2025. Intelligent and automatic irrigation system based on internet of things using fuzzy control technology. *Sci Rep*. 15(1):14577. <https://doi.org/10.1038/s41598-025-98137-2>.
- Pranidana AM, Qamal M, Risawandi R. 2025. Smart Valve Irrigation System Using Fuzzy Logic for Mustard. *J Appl Informatics Comput*. 9(5):2212–2219. <https://doi.org/10.30871/jaic.v9i5.10024>.
- Sumarsono J, Widhiantari IA, De Side GN, Widhiantara IKM. 2024. Design of Scheduled Fog Irrigation System with ESP 32 in Mustard Seedbed (*Brassica juncea* L.). *J Tek Pertan Lampung (Journal Agric Eng*. 13(4):1109. <https://doi.org/10.23960/jtep-l.v13i4.1109-1120>.
- Ulfada E, Nurfiana N, Handayani RD. 2022. Perancangan Desain UI/UX Pada Implementasi Sistem Kontrol Smart Farming Berbasis Internet of Things (IoT). *Semin Nas Has Penelit dan Pengabdi Masy 2022.*, siap terbit.
- Waluyo, Widura A, Hadiatna F, Anugerah D. 2023. Fuzzy-Based Smart Farming and Consumed Energy Comparison Using the Internet of Things. *IEEE Access*. 11:69241–69251. <https://doi.org/10.1109/ACCESS.2023.3291616>.
- Zebua SN, Dohona HN, Waruwu IP. 2024. Evaluasi Irigasi Berbasis Teknologi Di Sektor Pertanian. *PENARIK J Ilmu Pertan dan Perikan*. 1(2):226–232.