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## Bidang Keahlian

Bidang keahlian yang ditekuni terkait pengembangan sistem elektronika cerdas dan teknologi energi berkelanjutan. Selain aktif mengajar mata kuliah terkait teknik elektronika dan IoT, juga terlibat dalam berbagai penelitian dan publikasi ilmiah. Beberapa hasil penelitiannya telah dipublikasikan di jurnal dan konferensi internasional, mencakup topik seperti integrasi teknologi IoT dalam sistem energi.

## Pendidikan Formal

| Tahun | Program | Bidang Ilmu | Perguruan Tinggi |
|---|---|---|---|
| 2023 | Insinyur | Teknik Elektro | Universitas Gadjah Mada (UGM) Yogyakarta |
| 2012-2018 | Doktoral | Electrical and Electronic Engineering | Universiti Teknologi Petronas, Perak, Malaysia |
| 2006-2009 | Master | Electrical and Electronic Engineering | Universiti Teknologi Petronas, Perak, Malaysia |
| 2000-2005 | Sarjana | Teknik Elektro | Universitas Gadjah Mada (UGM) Yogyakarta |

## Pengalaman Penelitian

| No | Tahun | Judul Penelitian | Sumber Dana |
|---|---|---|---|
| 1 | 2024 | Inovasi Teknologi | Kementrian Pekerjaan Umum |
| 2 | 2024 | Indoor Thermal Environment | Shinshu University |
| 3 | 2024 | Development of low-carbon affordable apartments in the hot-humid climate of Indonesia towards Paris Agreement 2030 | Hiroshima University |
| 4 | 2024 | Pengembangan Game Ganyang Setan Alas | DIKSI |
| 5 | 2024 | Penulisan Buku CGI | Dana Masyarakat |
| 6 | 2023 | Sistem Informasi Pendukung Smart Campus | Dana Masyarakat |
| 7 | 2022 | Pengembangan Bisnis Game Persia | DIKSI |
| 8 | 2022 | Pengembangan Game Becak 2045 | DIKSI |
| 9 | 2022 | Pengembangan Sistem Pelayanan Smart Campus Di DTEDI | Dana Masyarakat |
| 10 | 2021 | Rancangan Smart Campus | Dana Masyarakat |
| 11 | 2021 | Sistem Perlintasan Kereta Api | DIKSI |

| | | | |
|---|---|---|---|
| 12 | 2021 | Modul Daring berbasis Virtual Reality dan Augmented Reality | DIKSI |
| 13 | 2020 | Rancang Bangun GAMA Solar Kiosk dengan Konsep BAPV Skala Kecil | Dana Masyarakat |
| 14 | 2020 | Smart Campus : Konsep dan Rancangan | Dana Masyarakat |
| 15 | 2019 | Perancangan Grid Skala Laboratorium untuk Mendukung Praktikum Elektronika | Dana Masyarakat |
| 16 | 2011 | Pemetaan wilayah cakupan komunikasi nirkabel berdasarkan sebaran spektrum frekuensi tinggi | Dana Masyarakat |
| 17 | 2011 | Pengukuran dan analisis utilisasi kanal pada BTS GSM | Dana Masyarakat |
| 18 | 2011 | Sistem Wudhu Otomatis | Dana Masyarakat |

## Pengalaman Pengabdian

| No | Tahun | Judul Kegiatan | Sumber Dana |
|---|---|---|---|
| 1 | 2024 | Implementasi PLTS | Bappeda Kulon Progo |
| 2 | 2024 | Pelatihan Jaringan Dasar untuk Pemuda Jatirejo dan Sidorejo Lendah Kulon Progo | Hibah Dana Masyarakat Sekolah Vokasi |
| 3 | 2023 | Implementasi Jaringan CCTV pada Unit Jasa Keuangan dan Perdagangan di Desa Jatirejo, Lendah Kulon Progo | Hibah Dana Masyarakat Sekolah Vokasi |
| 4 | 2023 | Pengembangan Alat Ukur Parameter Tanah Lahan Pertanian Untuk Kelompok Tani Jatirejo Kulonprogo | Hibah Dana Masyarakat Sekolah Vokasi |
| 5 | 2023 | Pendampingan Pembuatan Konten Media Sosial dan Film Pendek Karang Taruna Kalurahan Kaliagung | Hibah Dana Masyarakat Sekolah Vokasi |
| 6 | 2022 | Pendampingan Digital Marketing untuk UMKM Jatirejo | Hibah Dana Masyarakat Sekolah Vokasi |
| 7 | 2021 | Pelatihan Blog untuk BUMDES Jatirejo | Hibah Dana Masyarakat Sekolah Vokasi |
| 8 | 2020 | Implementasi Perangkat Elektronis pada Fasilitas Umum guna Pencegahan Virus Corona di sekitar wilayah Sekolah Vokasi UGM | Hibah Dana Masyarakat Sekolah Vokasi |
| 9 | 2020 | Sosialisasi Kran Wudhu tanpa sentuh untuk pengurangan penyebaran virus covid-19 di Masjid kampus UGM | Hibah Dana Masyarakat Sekolah Vokasi |
| 10 | 2019 | Pelatihan Web untuk SKB Kulon Progo | Hibah Dana Masyarakat Sekolah Vokasi |
| 11 | 2011 | Pelatihan Elektronika terapan bagi masyarakat di Desa Argomulyo, Kec Cangkringan, Kab Sleman | Hibah Dana Masyarakat Sekolah Vokasi |

## Daftar Publikasi

### 1 Jurnal Internasional


[1] R. M. Teja Nursasongka, I. Fahrurrozi, U. Y. Oktiawati, U. Taufiq, U. Farooq, and G. Alfian, "Utilizing association rule mining for enhancing sales performance in web-based dashboard application," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 36, no. 2, p. 1105, Nov. 2024, ISSN: 2502-4760, 2502-4752. DOI: 10.11591/ijeecs.v36.i2.pp1105-1113.

[2] A. N. Permatasari and U. Y. Oktiawati, "Preferred Online Learning Method during COVID-19 Pandemic: A Students' Perspective," *PAROLE: Journal of Linguistics and Education*, vol. 11, no. 1, pp. 1–9, Apr. 2021, ISSN: 23380683, 2087-345X. DOI: 10.14710/parole.v11i1.1-9.

[3] A. Mayub, F. Fahmizal, M. Shidiq, U. Y. Oktiawati, and N. R. Rosyid, "Implementation smart home using internet of things," *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, vol. 17, no. 6, p. 3126, Dec. 2019, ISSN: 2302-9293, 1693-6930. DOI: 10.12928/telkomnika.v17i6.11722.

[4] U. Y. Oktiawati, N. Muti Mohamed, and Z. A. Burhanudin, "Applications of Taguchi Method for Optimization of Dye Solar Cell Design," *Sains Malaysiana*, vol. 46, no. 3, pp. 503–508, Mar. 2017, ISSN: 01266039. DOI: 10.17576/jsm-2017-4603-19.

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[6] Electrical Engineering Diploma Program, Gadjah Mada University, Yogyakarta, Indonesia, U. Y. Oktiawati, and V. V. Yap, "A Motion Estimation Algorithm Using DTCWT and ARPS," *ITB Journal of Information and Communication Technology*, vol. 6, no. 1, pp. 82–101, 2012, ISSN: 19783086. DOI: 10.5614/itbj.ict.2012.6.1.5.


### 2 Jurnal Nasional


[1] K. Aprilianto and U. Y. Oktiawati, "Analisis kinerja sistem photovoltaic management platform pada implementasi sistem plts hybrid berbasis internet of things area r&d syngenta cikampek," *Jurnal Listrik, Instrumentasi, dan Elektronika Terapan*, vol. 5, no. 2, pp. 75–83,

[2] Y. R. Handayani, D. D. P. Widana, R. A. Torey, A. Yuniza, U. Y. Oktiawati, et al., "Pelatihan pembuatan tote bag ramah lingkungan dengan penerapan teknologi ecoprint teknik pounding pada ibu-ibu pkk rt 03 dukuh sanggrahan, tirtoadi, mlati, sleman," *Jurnal Pengabdian, Riset, Kreativitas, Inovasi, dan Teknologi Tepat Guna*, vol. 2, no. 1, pp. 110–116,

[3] L. K. N. Imani, N. Alicia, F. Fahmizal, and U. Y. Oktiawati, "Implementasi sistem pengendali rumah pintar menggunakan laravel," *Jurnal Listrik, Instrumentasi, dan Elektronika Terapan*, vol. 1, no. 1,

[4] I. Ardila, U. Y. Oktiawati, N. Saputra, et al., "The impact of augmented reality in english learning in elementary schools," *Jurnal Ilmiah Sekolah Dasar*, vol. 8, no. 1, 2024.

[5] A. K. Fauziyyah et al., "Empowering vocational educators in kulon progo: Iot and digital transformation training for enhanced teaching skills," *Jurnal Abdimas*, vol. 28, no. 2, pp. 321–325, 2024.

[6] I. P. Gani, U. Y. Oktiawati, A. Manuhutu, R. Wulandari, A. Taufan, et al., "Integrasi teknologi digital dalam pembelajaran ekonomi: Studi kasus pada mahasiswa jurusan pendidikan ekonomi," *EDU RESEARCH*, vol. 5, no. 2, pp. 203–211, 2024.

[7] J. Malintang, U. Y. Oktiawati, A. Ikhlas, et al., "Kolaborasi dan inovasi: Menerapkan science, technology, engineering, arts, and mathematics (steam) untuk pembelajaran holistik di perguruan tinggi," *EDU RESEARCH*, vol. 5, no. 3, pp. 643–654, 2024.

[8] U. Y. Oktiawati, S. Anwar, A. Ramatni, J. W. Kuswinardi, J. W. Sitopu, et al., "Kemajuan teknologi 5g mempercepat adopsi dan inovasi iot terhadap pendidikan di perguruan tinggi," *EDU RESEARCH*, vol. 5, no. 2, pp. 193–202, 2024.

[9] U. Y. Oktiawati, A. Ikhlas, H. Kurnia, A. Taufan, D. K. Sawlani, et al., "Kurikulum dan pendidikan berbasis proyek mendorong kreativitas dan kolaborasi," *EDU RESEARCH*, vol. 5, no. 4, pp. 63–79, 2024.

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[11] J. W. Kuswinardi, A. Rachman, M. Z. Taswin, D. H. Pitra, and U. Y. Oktiawati, "Efektivitas pemanfaatan aplikasi augmented reality (ar) dalam pembelajaran di sma: Sebuah tinjauan sistematis," *Jurnal Review Pendidikan Dan Pengajaran (JRPP)*, vol. 6, no. 3, pp. 556–563, 2023.

[12] E. Lolang, F. Salsabyla, A. Suhud, U. Y. Oktiawati, and A. Ulimaz, "Beban kognitif: Extraneous cognitive load (ecl) siswa yang dipengaruhi oleh e-learning berbasis google classroom," *Paedagoria: Jurnal Kajian, Penelitian dan Pengembangan Kependidikan*, vol. 14, no. 2, pp. 184–191, 2023.

[13] B. A. Prakoso and U. Y. Oktiawati, "Analisis perbandingan kinerja container network interface flannel dan cilium sebagai interface utama pada multus cni dalam jaringan klaster kubernetes," *Journal of Internet and Software Engineering*, vol. 5, no. 2, pp. 99–105, 2023.

[14] R. Pratiwi and U. Y. Oktiawati, "Analisis qos pada imlementasi mpls traffic engineering-diffserv untuk layanan video streaming," *Journal of Internet and Software Engineering*, vol. 4, no. 2, pp. 34–38, 2023.

[15] N. A. Widiyono and U. Y. Oktiawati, "Implementasi web application firewall (waf) pada aplikasi fishku berbasis google cloud armor," *Journal of Internet and Software Engineering*, vol. 5, no. 2, pp. 75–85, 2023.

[16] P. W. Wijayanto, H. Thamrin, A. Haetami, S. Mustoip, and U. Y. Oktiawati, "The potential of metaverse technology in education as a transformation of learning media in indonesia," *Jurnal Kependidikan: Jurnal Hasil Penelitian dan Kajian Kepustakaan di Bidang Pendidikan, Pengajaran dan Pembelajaran*, vol. 9, no. 2, pp. 396–407, 2023.

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[19] G. Y. Kusuma and U. Y. Oktiawati, "Perancangan sistem monitoring performa aplikasi menggunakan opentelemetry dan grafana stack," *Journal of Internet and Software Engineering (JISE)*, vol. 3, no. 1, p. 27, 2022.

[20] R. T. Kusumadewi, R. Kurniadi, and U. Y. Oktiawati, "Purwarupa pendeteksi liquified petroleum gas (lpg) menggunakan sensor mq-2 dengan blynk," *Jurnal Listrik, Instrumentasi, dan Elektronika Terapan*, vol. 3, no. 1, 2022.

[21] R. A. Lestari and U. Y. Oktiawati, "Full state feedback and feed forward control of servo smart window using matlab/simulink," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 28, no. 3, pp. 1355–1362, 2022.

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[23] S. O. Novantri and U. Y. Oktiawati, "Rancang bangun monitoring kadar gas metana pada pengolahan sampah organik berbasis iot menggunakan mikrokontroler esp32," *Jurnal Listrik, Instrumentasi, dan Elektronika Terapan*, vol. 3, no. 2, 2022.

[24] M. N. J. Rozaq and U. Y. Oktiawati, "Implementasi sistem otomasi order mentoring pada marketplace mentoring platform nusademy," *Journal of Applied Computer Science and Technology*, vol. 3, no. 2, pp. 199–207, 2022.

[25] S. Suhono et al., "Rancang bangun kios minuman dengan konsep container booth bertenaga surya," *Jurnal ELTIKOM: Jurnal Teknik Elektro, Teknologi Informasi dan Komputer*, vol. 6, no. 1, pp. 56–64, 2022.

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[28] A. F. Isnanto, A. Surriani, S. Lestari, and U. Y. Oktiawati, "Prototype of smart home and monitoring application based on internet of things (iot) using android," *Jurnal Listrik, Instrumentasi, dan Elektronika Terapan*, vol. 1, no. 1, 2021.

[29] A. K. Mujtahidah and U. Y. Oktiawati, "Implementasi dan analisis qos pada smart door yang terintegrasi dengan aplikasi telegram," *Journal of Internet and Software Engineering*, vol. 2, no. 1, pp. 17–23, 2021.

[30] L. Prihasworo, D. W. Fittrin, U. Y. Oktiawati, H. N. Isnianto, and Y. W. Setyono, "Rancang bangun smart dc current and voltage monitoring berbasis internet of things dengan database cloud thingspeak pada simulator pln laboratorium teknik tenaga listrik ugm," *Jurnal Listrik, Instrumentasi, dan Elektronika Terapan*, vol. 1, no. 2, 2021.

[31] B. I. Gunawan and U. Y. Oktiawati, "Sistem pemantau dan pengendali suhu ruang server menggunakan fuzzy berbasis mikrokontroler robotdyn," *J. Rekayasa Sist. dan Teknol. Inf*, vol. 4, no. 1, pp. 1–9, 2020.

[32] Y. L. Prihasworo, D. W. Fittrin, U. Y. Oktiawati, H. N. Isnianto, and Y. Setyono, "Rancang bangun smart dc current and voltage monitoring dengan thingspeak pada simulator pln laboratorium teknik tenaga listrik ugm," *J. List. Instrumentasi dan Elektron. Terap*, vol. 1, no. 2, pp. 39–48, 2020.

[33] T. P. Satya, U. Y. Oktiawati, I. Fahrurrozi, H. Prisyanti, et al., "Analisis akurasi sistem sensor dht22 berbasis arduino terhadap thermohygrometer standar," *Jurnal Fisika dan aplikasinya*, vol. 16, no. 1, pp. 40–45, 2020.

[34] N. Widyaningrum and U. Y. Oktiawati, "Sistem pemantauan dan pengendalian debit fluida berbasis arduino dan website," *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, vol. 9, no. 3, pp. 287–295, 2020.

[35] D. Ariyanti and U. Y. Oktiawati, "Analisis perbandingan performa traffic engineering dengan resource reservation protocol (rsvp) dan segment routing," *Teknika*, vol. 8, no. 2, pp. 86–91, 2019.

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## 3 Seminar Internasional dan Nasional

[1] U. Y. Oktiawati, M. N. F. Alfata, and D. Y. Kusuma, "Prototype of monitoring and automation systems of the furnace in the fire laboratory," in *2024 International Electronics Symposium (IES)*, IEEE, 2024, pp. 593–598.

[2] W. Setiawan, U. Y. Oktiawati, S. Mustoip, I. Ichsan, and A. Setyaningsih, "Metaverse based learning media development," in *AIP Conference Proceedings*, AIP Publishing, vol. 3098, 2024.

[3] A. H. Shodam, U. Y. Oktiawati, and I. V. Paputungan, "Implementation and performance analysis websocket on prototype of system monitoring atm," in *AIP Conference Proceedings*, AIP Publishing, vol. 2654, 2023.

[4] F. Dhiaulhaq, I. V. Paputungan, and U. Y. Oktiawati, "Protocol-based testing for unmanned gasoline level monitoring system," in *2021 International Seminar on Application for Technology of Information and Communication (iSemantic)*, IEEE, 2021, pp. 238–242.

[5] A. S. Fiddariani and U. Y. Oktiawati, "Design and implementation of temperature and ph monitoring tools in fish pond based on arduino and processing," in *2021 13th International Conference on Information Technology and Electrical Engineering (ICITEE)*, IEEE, 2021, pp. 214–219.

[6] U. Y. Oktiawati, M. N. F. Alfata, S. D. Rahayu, A. F. Ridwan, D. Y. Kusuma, C. V. H. Permana, et al., "Development of monitoring system of furnace temperature for fire resistance test," in *2021 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)*, IEEE, 2021, pp. 1–6.

[7] I. V. Paputungan, F. Dhiaulhaq, U. Y. Oktiawati, and H. Setiaji, "Unmanned system for gasoline level monitoring," in *Journal of Physics: Conference Series*, IOP Publishing, vol. 1969, 2021, p. 012 030.

[8] F. Dhiaulhaq, U. Y. Oktiawati, and I. V. Paputungan, "Designing arduino-based devices for fluid height monitor," in *2020 8th International Conference on Cyber and IT Service Management (CITSM)*, IEEE, 2020, pp. 1–4.

[9] I. V. Paputungan, M. R. Al Fitri, and U. Y. Oktiawati, "Diy home security system: Functional and performance testing," in *2020 6th International Conference on Science and Technology (ICST)*, IEEE, vol. 1, 2020, pp. 01–04.

[10] I. V. Paputungan et al., "Temperature and humidity monitoring system in broiler poultry farm," in *IOP Conference Series: Materials Science and Engineering*, IOP Publishing, vol. 803, 2020, p. 012 010.

[11] F. Puspasari, I. Fahrurrozi, U. Y. Oktiawati, and T. P. Satya, "Development of embedded system in monitoring temperature and humidity as supporting smart farm," in *Journal of Physics: Conference Series*, IOP Publishing, vol. 1511, 2020, p. 012 017.

[12] J. Putra, A. Diantoro, U. Y. Oktiawati, A. Surriani, A. Pradana, and L. Subekti, "Design of scada for protection system of uncoiled dc motor's temperature using plc abb ac 800pec based on wonderware intouch," in *IOP Conference Series: Materials Science and Engineering*, IOP Publishing, vol. 722, 2020, p. 012 031.

[13] M. R. Al Fitri, U. Y. Oktiawati, and I. V. Paputungan, "Mobile based application design of wireless motion detection for home security," in *2019 IEEE International Conference on Sensors and Nanotechnology*, IEEE, 2019, pp. 1–4.

[14] I. V. Paputungan, M. R. Al Fitri, and U. Y. Oktiawati, "Motion and movement detection for diy home security system," in *2019 IEEE Conference on Sustainable Utilization and Development in Engineering and Technologies (CSUDET)*, IEEE, 2019, pp. 122–125.

[15] U. Y. Oktiawati, N. M. Mohamed, Z. A. Burhanudin, and I. V. Paputungan, "Simulation study of dye solar cell with tio 2 nanoparticles/aggregates composite for improved performance," in *2018 International Conference on Intelligent and Advanced System (ICIAS)*, IEEE, 2018, pp. 1–5.

[16] U. Y. Oktiawati, N. M. Mohamed, and Z. A. Burhanudin, "Dye solar cell design parameter optimization using silvaco athena and atlas," in *2016 6th International Conference on Intelligent and Advanced Systems (ICIAS)*, IEEE, 2016, pp. 1–4.

[17] U. Y. Oktiawati, N. M. Mohamed, and Z. A. Burhanudin, "Simulation of the effects of electrolyte concentration on dye solar cell performance," in *2014 5th International Conference on Intelligent and Advanced Systems (ICIAS)*, IEEE, 2014, pp. 1–5.

[18] U. Y. Oktiawati, N. M. Mohamed, and Z. A. Burhanudin, "Effects of tio 2 electrode thickness on the performance of dye solar cell by simulation," in *RSM 2013 IEEE Regional Symposium on Micro and Nanoelectronics*, IEEE, 2013, pp. 406–409.

[19] M. A. C. Bhakti, I. V. Paputungan, H. Nugroho, P. T. Bhaskoro, U. Y. Oktiawati, et al., "Taking up autonomous soa framework into cloud computing," in *2012 International Conference on Cloud Computing and Social Networking (ICCCSN)*, IEEE, 2012, pp. 1–4.

[20] U. Y. Oktiawati, "The effect of transformation part in image compression," in *Seminar Nasional Aplikasi Teknologi Informasi (SNATI)*, 2008.

[21] O. U. Yusmaniar and V. Y. Vooi, "Evaluating the effects of the dual tree complex wavelet transform and the adaptive rood pattern search algorithm on a video codec," in *2008 3rd IEEE Conference on Industrial Electronics and Applications*, IEEE, 2008, pp. 2544–2547.

[22] U. Y. Oktiawati and V. V. Yap, "Video compression using dual tree complex wavelet transform," in *2007 International Conference on Intelligent and Advanced Systems*, IEEE, 2007, pp. 775–778.

## 4 Buku

[1] A. R. Hakim, S. Shofiah, M. Nasir, F. Annisa, F. P. Sari, U. Y. Oktiawati, et al., *Fisika*, 2023.

[2] N. S. Halima and U. Y. Oktiawati, *Logika Pemrograman Visual & Blok Kode Scratch*. Deepublish, 2023.

[3] N. S. Halimah and U. Y. Oktiawati, *Semua Bisa Belajar Arduino*. Penerbit Lindan Bestari, 2021.

## Kekayaan Intelektual

| No | Tahun | Jenis | Judul |
|---|---|---|---|
| 1 | 2024 | Hak Cipta | Video Trailer Game Ganyang Setan Alas |
| 2 | 2023 | Hak Cipta | Sistem Monitoring Suhu Tungku |
| 3 | 2022 | Hak Cipta | Persia (Game) |
| 4 | 2022 | Hak Cipta | Video Alur Pemodelan 3D untuk Game Becak 2045 |
| 5 | 2021 | Hak Cipta | Alat Monitoring Di Kolam Ikan Berbasis Arduino dan Processing |
| 6 | 2021 | Hak Cipta | Sistem Informasi Manajemen Terminal Ir. Soekarno Klaten Berbasis Web |
| 7 | 2021 | Hak Cipta | Laboran Virtual |
| 8 | 2021 | Hak Cipta | Web https://cerdas.sv.ugm.ac.id/ |
| 9 | 2020 | Hak Cipta | AKURAT (Alat Ukur Kerataan Jalan) |

## Penghargaan

| No | Tahun | Award |
|---|---|---|
| 1 | 2022 | Dosen Berprestasi 2022 (SV UGM) |
| 2 | 2021 | Penghargaan Kesetiaan 15 tahun (UGM) |
| 3 | 2012 | Best paper award (ITB Journal) |

## Tautan Pribadi

- PDDikti : Klik disini

- Google Scholar : Klik disini
- Sinta ID : Klik disini