



CURRICULUM VITAE

Krismadinata, ST., MT., Ph.D.

Faculty: Fakultas Teknik

Study Programs: Teknik Elektro Industri

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Biography

Scopus of the Last 5 Years

EXPERIMENTAL INVESTIGATION OF WATER TO AIR HEAT EXCHANGER PERFORMANCE AS PASSIVE COOLING STRATEGY ON VENTILATION SYSTEM IN TROPICAL REGION. EUREKA, Physics and Engineering, Lapisa R., 2023

A Systematic Literature Review of Teaching and Learning on Object-Oriented Programming Course. International Journal of Information and Education Technology, Efan, 2023

Optimized Design of Residential Building Envelope in Tropical Climate Region: Thermal Comfort and Cost Efficiency in an Indonesian Case Study. Journal of Architectural Engineering, Lapisa R., 2022

E-learning Courseware Development for Power Electronics Course. International Journal of Interactive Mobile Technologies, Krismadinata, 2022

COMPARISON OF VARIOUS CONDUCTION MODES FOR THREE-PHASE INVERTER. Journal of Theoretical and Applied Information Technology, Krismadinata K., 2022

The Interactive Multimedia Learning for Power Electronics Course. International journal of online and biomedical engineering, Krismadinata, 2022

OPTIMAL ALLOCATION AND SIZING OF CAPACITORS EMPLOYING PATTERN SEARCH OPTIMIZATION. Journal of Theoretical and Applied Information Technology, Astrid E., 2022

Solar Energy Utilization Techniques, Policies, Potentials, Progresses, Challenges and Recommendations in ASEAN Countries. Sustainability (Switzerland), Pandey A.K., 2022

DESIGN AND PERFORMANCE OF DUAL AXIS SOLAR TRACKER BASED ON LIGHT SENSORS TO MAXIMIZE THE PHOTOVOLTAIC ENERGY OUTPUT. Journal of Theoretical and Applied Information Technology, Asnil, 2022

Combustion and Emission Characteristics of CNG-Diesel Dual Fuel Engine with Variation of Air Fuel Ratio. Automotive Experiences, Yuvenda D., 2022

Numerical Analysis of the Roof Slope Effect on the Building Thermal Comfort and the Need for Roofing Materials in Tropical Area. International Journal on Advanced Science, Engineering and Information Technology, Lapisa R., 2022

Practical Work of Digital System Course Based on Virtual Laboratory. International journal of online and biomedical engineering, Mulya R., 2021

Comparison of Collaborative Learning Models to Improve Programming Competence. International journal of online and biomedical engineering, Krismadinata, 2021

Characteristics of photovoltaic modules in various configurations for partial shading conditions. Journal of Theoretical and Applied Information Technology, Asnil, 2021

EXPERIMENTAL STUDY OF WINDOW SHADING EFFECT ON BUILDING THERMAL-VISUAL COMFORT IN A TROPICAL REGION. International Journal of GEOMATE, Lapisa R., 2021

Effect of Collaborative Programming on Students Achievement Learning Object-Oriented Programming Course. International Journal of Information and Education Technology, Krismadinata, 2023

Study on the Addition of A Swirling Vane to Spark Ignition Engines Fueled by Gasoline and Gasoline-Ethanol. Automotive Experiences, Purwanto W., 2023

Photovoltaic Energy Harvesting with Static and Dynamic Solar Modules Employing IoT-Enabled Performance Monitoring. TEM Journal, Krismadinata K., 2023

Exploring the Full Potential of Collaborative Learning and E-Learning Environments in Universities: A Systematic Review. TEM Journal, Wagino W., 2023

Real-Time Monitoring System Using IoT for Photovoltaic Parameters. TEM Journal, Asnil A., 2023

Web of Science (WoS) of the Last 5 Years

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Experimental investigation of water to air heat exchanger performance as passive cooling strategy on ventilation system in tropical region. EUREKA: Physics and Engineering, 32-41, 2023, R Lapisa, A Kurniawan, J Jasman, D Yuvenda, RP Putra, W Waskito, ..., 2023

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OPTIMAL ALLOCATION AND SIZING OF CAPACITORS EMPLOYING PATTERN SEARCH OPTIMIZATION. Journal of Theoretical and Applied Information Technology 100 (8), 2022, E ASTRID, DTRIPY KRISMADINATA, C DEWI, 2022

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Monitoring Hasil Pelacakan Cahaya Matahari Sumbu Tunggal. MSI Transaction on Education 3 (1), 15-28, 2022, WA Putri, K Krismadinata, 2022

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Implementation and Analysis of Grey Wolf Optimization Technique for PV Fed Switched Coupled Inductor Quasi Z-Source Cascaded Multilevel Inverter. *Distributed Generation & Alternative Energy Journal*, 1395–1416-1395–1416, 2022, VR Rajan, L Premalatha, Krismadinata, 2022

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Regulasi Tegangan dan Frekuensi GIPS Menggunakan ELC Topologi AC-AC Konverter 3 Fasa. *MSI Transaction on Education* 3 (3), 114-126, 2022, D Fiandri, K Krismadinata, 2022

Rancang Bangun Electronic Load Controller Menggunakan Konverter Buck pada Generator Induksi 3 Fasa. *MSI Transaction on Education* 3 (3), 127-140, 2022, O Kinanda, K Krismadinata, 2022

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Nagari Mandiri Energi dengan Pembangkit Listrik Tenaga Mikro Hidro. *Suluh Bendang: Jurnal Ilmiah Pengabdian Kepada Masyarakat* 22 (3), 658-671, 2022, K Krismadinata, A Asnil, I Husnaini, T Andayono, M Yandra, R Lapisa, 2022

Combustion and Emission Characteristics of CNG-Diesel Dual Fuel Engine with Variation of Air Fuel Ratio. *Automotive Experiences* 5 (3), 507-527, 2022, D Yuvenda, B Sudarmanta, J Jamaludin, O Muraza, RP Putra, R Lapisa, ..., 2022

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An overview of the teaching and learning process basic programming in algorithm and programming courses. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)* 12 (2) ..., 2021, W Susanti, 2021

Design and Manufacture of Wireless Monitoring system of Photovoltaic Generation Employing Raspberry PI 3. *ELKHA* 13 (1), 19-24, 2021, K Krismadinata, P Kusuma, Y Yahfizham, 2021

Modelling demand response to alleviate congestion in active power market. *Int J* 10 (2), 2021, E Astrid, CD Krismadinata, DTP Yanto, 2021

Developing blended learning model in vocational education based on 21st century integrated learning and industrial revolution 4.0. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)* 12 (8) ..., 2021, N Jalinus, 2021

Pengembangan Training Kit kendali elektronik pada mata pelajaran mengoperasikan sistem kendali elektronik. *Jurnal Pendidikan Teknologi dan Kejuruan* 18 (1), 89-98, 2021, K Krismadinata, A Anwar, J Akbar, 2021

Introduction to questionnaire data patterns using Perceptron Algorithm for lecturer improvement and development in higher education. *INVOTEK: Jurnal Inovasi Vokasional dan Teknologi* 21 (1), 1-10, 2021, I Irwan, RR Putra, K Krismadinata, N Jalinus, 2021

Development of boost converter training kit as a practical tool in power electronics course. *INVOTEK: Jurnal Inovasi Vokasional dan Teknologi* 21 (2), 95-104, 2021, J Akbar, K Krismadinata, A Ahyanuardi, A Asnil, 2021

Increasing Critical Thinking Through the Blended Socratic Method of Teaching Model. *JPI (Jurnal Pendidikan Indonesia)* 10 (2), 297-305, 2021, K Krismadinata, N Jlinus, AL Lubis, D Ramadhani, 2021

Data Acquisition of PV Mini-Grid Voltage and Current using Arduino and PLX-DAQ. MOTIVECTION: Journal of Mechanical, Electrical and Industrial Engineering 3Â ..., 2021, A Murfianah, K Krismadinata, Y Elviralita, 2021

Practical Work of Digital System Course Based on Virtual Laboratory.. International Journal of Online & Biomedical Engineering 17 (8), 2021, R Mulya, N Jalinus, H Effendi, 2021

Comparison of Collaborative Learning Models to Improve Programming Competence.. International Journal of Online & Biomedical Engineering 17 (10), 2021, W Susanti, 2021

Online Learning Innovation in the Era and Post Covid-19 Pandemic. Advances in Social Science, Education and Humanities Research 4, 5, 2021, W Susanti, J Krismadinata, RY Rangga, TN Yandri, 2021

Pengembangan Konverter CUK untuk Praktikum Elektronika Daya. MSI Transaction on Education 2 (4), 169-182, 2021, K Krismadinata, J Akbar, 2021

Research of the Last 5 Years

Integrated Solar Thermal-induced Ventilation With Thermoelectric Generator Untuk Efisiensi Energi Dan Kenyamanan Bangunan. Pd-penelitian Dasar, Leader: Remon Lapisa, Implementation Year: 2022

Rancang Bangun Training Kits Dc-dc Converter Sebagai Media Pratikum Elektronika Daya Dengan Graphical User Interface. Pt-penelitian Terapan, Leader: Krismadinata, Implementation Year: 2022

Pemodelan Dan Karakterisasi Electronic Load Controller Generator Induksi Untuk Pembangkit Listrik Tenaga Piko Hidro. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Krismadinata, Implementation Year: 2022

Alternatif Peningkatan Produksi Energi Listrik Pada Pembangkit Listrik Tenaga Surya Menggunakan Konsep Pelacak Posisi Matahari. Pd-penelitian Dasar, Leader: Asnil, Implementation Year: 2022

Alternatif Peningkatan Produksi Energi Listrik Pada Pembangkit Listrik Tenaga Surya Menggunakan Konsep Pelacak Posisi Matahari. Pdpt-penelitian Dasar, Leader: Asnil, Implementation Year: 2021

Pemodelan Dan Karakterisasi Electronic Load Controller Generator Induksi Untuk Pembangkit Listrik Tenaga Piko Hidro. Pdpt-penelitian Kerjasama Perguruan Tinggi Luar Negeri Dasar, Leader: Krismadinata, Implementation Year: 2021

Integrated Solar Thermal-induced Ventilation With Thermoelectric Generator Untuk Efisiensi Energi Dan Kenyamanan Bangunan. Pdpt-penelitian Dasar, Leader: Remon Lapisa, Implementation Year: 2021

Rancang Bangun Training Kits Dc-dc Converter Sebagai Media Pratikum Elektronika Daya Dengan Graphical User Interface. Ptpt-penelitian Terapan, Leader: Krismadinata, Implementation Year: 2021

Community Service of the Last 5 Years

Pengembangan Pusat Produksi Peralatan Praktikum Teknologi Kejuruan. Program Pengembangan Usaha Produk Intelektual Kampus (ppupik), Leader: Krismadinata, Implementation Year: 2022

Rancang Bangun Pembangkit Listrik Tenaga Piko Hidro Sebagai Sumber Energi Berkelanjutan Ramah Lingkungan Bagi Masyarakat Ngalau Baribuik Batu Gadang Padang. Program Pengembangan Nagari Binaan (ppnb), Leader: Remon Lapisa, Implementation Year: 2022

Pengembangan Pusat Produksi Peralatan Praktikum Teknologi Kejuruan. Program Pengembangan Usaha Produk Intelektual Kampus (ppupik), Leader: Krismadinata, Implementation Year: 2021

IPR's of the Last 5 Years

Data Logger Karakteristik Panel Surya. Inventor: Asnil, Krismadinata, Irma Husnaini, Dhalmiga Pratama, Bagus Suryanto, Publication Date: 2021-07-01

BOOST CONVERTER. Inventor: Asnil, Krismadinata, Irma Husnaini, Junaidi Akbar, Publication Date: 2022-05-15

Sistem Pelacak Posisi Matahari Menggunakan Sumbu Ganda. Inventor: Asnil, Krismadinata, Irma Husnaini, Dhalmiga Pratama, Bagus Suryanto, Publication Date: 2021-07-01

BUCK CONVERTER. Inventor: Asnil, Krismadinata, Irma Husnaini, Junaidi Akbar, Publication Date: 2022-05-15

Book of the Last 5 Years

Panduan praktikum elektronika daya dengan pendekatan saintifik. ISBN: 9786236766705, Publisher: CV. Sarnu Untung, Year: 2022

Pemrograman visual. ISBN: 9786233721752, Publisher: Rajawali Pers, Year: 2021
