

# Ir. Hendra Zulkarnain, M.T.

Lecturer of Undergraduate Program in Electrical Engineering Study Program  
Faculty of Engineering  
Universitas Sumatera Utara

✉ [hendra.zulkarnain@usu.ac.id](mailto:hendra.zulkarnain@usu.ac.id)

🏢 USU Faculty of Engineering

🌐 [ft.usu.ac.id/en/lecturer/hendra-zulkarnain](http://ft.usu.ac.id/en/lecturer/hendra-zulkarnain)

*Hendra Zulkarnain, M.T. was born in Pematang Siantar on May 14, 1961. Currently serves as an Electrical Engineering Lecturer at Universitas Sumatera Utara. He completed his last education, a Master of Electrical Engineering at Universitas Sumatera Utara (2018).*

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## Publications

2021

Prosiding seminar internasional

### **Mineral Mix and Soybean Oil Methyl Ester as an Alternative to the Transformer Insulating Oil**

HENDRA ZULKARNAIN

2022

Prosiding seminar internasional

### **Analysis of Resistivity, Dielectric Strength and Tensibility of Insulator Materials of A Mixture of Epoxy Resin, Silicone Rubber, and Coal Ash**

YULIANTA SIREGAR , HENDRA ZULKARNAIN

2022

Prosiding seminar internasional

### **Design of Transformer Oil Purification Equipment**

HENDRA ZULKARNAIN , YULIANTA SIREGAR

2022

Prosiding seminar internasional

### **Effect Temperature on Dielectric Strength of Transformer Oil With Nanoparticle SiO<sub>2</sub> and CCl<sub>4</sub>**

HENDRA ZULKARNAIN , YULIANTA SIREGAR

2019

Prosiding seminar internasional

### **Influence of Artificial Pollutants on Disc Insulators under Dry and Wet Conditions on Leakage Current and Flashover Voltage**

HENDRA ZULKARNAIN

2022

Prosiding seminar internasional

### **Dielectric Strength of SF<sub>6</sub>-N<sub>2</sub> and SF<sub>6</sub>-CO<sub>2</sub> due to Temperature and Pollutants**

YULIANTA SIREGAR , HENDRA ZULKARNAIN

2023

Prosiding seminar internasional

### **Air cleaner design using multiplier voltage application**

DANU ALIF TARA , HENDRA ZULKARNAIN , YULIANTA SIREGAR

2023

Prosiding seminar internasional

## **The effect of grading ring electrodes and stub positions on the voltage distribution of glass chain insulators in polluted conditions**

HENDRA ZULKARNAIN , MARIANI PURBA , YULIANTA SIREGAR

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2023

Prosiding seminar internasional

### **Effect Variation of Grading Electrode and Stub Position on Polluted Chain Isolator**

DRESS BOBYAN GINTING , YULIANTA SIREGAR , HENDRA ZULKARNAIN

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2019

Prosiding seminar internasional

### **Influence of Artificial Pollutants on Disc Insulators under Dry and Wet Conditions on Leakage Current and Flashover Voltage**

HENDRA ZULKARNAIN

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2023

Prosiding seminar nasional

### **Resistivitas dan Indeks Polarisasi Minyak Transformator bekas dengan penambahan Nanopartikel ZNO dan AL<sub>2</sub>O<sub>3</sub>**

HENDRA ZULKARNAIN

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2022

Prosiding seminar internasional

### **The Dielectric Power of Mixed Gas Insulation of SF<sub>6</sub>-CO<sub>2</sub> and SF<sub>6</sub>-N<sub>2</sub>**

HENDRA ZULKARNAIN , YULIANTA SIREGAR

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2018

Prosiding seminar internasional

### **Condition Monitoring of Distribution Transformers**

HENDRA ZULKARNAIN , SUHERMAN , SYAFRUDDIN HS

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2023

Prosiding seminar internasional

### **The Effect of Installation Angle and Rain Intensity on Partial Discharge Arising on The Cap Insulator Polluted and Wet Porcelain Plate**

DANIEL ADRIANTO HUTAGALUNG , YULIANTA SIREGAR , HENDRA ZULKARNAIN

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## **Community Services**

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2024

Ipteks Bagi Kewirausahaan

### **Penyusunan Peta Rencana dan Sesudah SPBE Pemerintah Daerah Sumatera Utara**

EMERSON PASCAWIRA SINULINGGA , KASMIR TANDJUNG , HENDRA ZULKARNAIN

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## **Intellectual Property Rights**

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2023

Paten nasional

### **Alat Purifikasi Minyak Trafo**

YULIANTA SIREGAR , HENDRA ZULKARNAIN

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