

Dr. Abdullah Munir

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NED University of Engineering and Technology

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Profile Summary

I received my bachelors (Electrical Engineering) and master's degree (Electrical Power System) from the NED University of Engineering and Technology, Karachi, Pakistan, in years 2011 and 2014 respectively. I completed my Ph.D. degree in high voltage electrical engineering from the University of Technology Malaysia (UTM) in 2022, under the scholarships awarded by Higher Education Commission (HEC) Pakistan. My PhD research is based on the condition monitoring of high voltage surge arresters. This research is aimed to improve the existing condition monitoring techniques of surge arresters and to mitigate the consequences of faults occurred due to their ageing and degradation.

My teaching career is more than of 10 years, started in 2012. Currently, I am working as an Assistant Professor in Electrical Engineering Department of NEDUET. I have also worked as an Area Coordinator of ISO for the Electrical Engineering Department, NED from 2014-2016.

Academic Qualification

- **2022- Doctor of Philosophy (Ph.D)**, in Electrical Engineering from University of Technology, Malaysia (UTM).
Ph.D Thesis Title
Leakage Current Based Online Condition Monitoring of Metal Oxide Surge Arresters with Harmonics Compensation
Supervisor
Prof. Dr Zulkurnain Abdul-Malek
- **2014-Masters by research in Electrical Engineering** (Electrical Power System) from NED University of Engineering and Technology, Karachi with CGPA 4.00.
Master's Thesis Title
Electrical Audit of NEDUET using advance instrumentation
Supervisor
Dr Muhammad Ali Memon
- **2011- Bachelor of Engineering**, in Electrical Engineering from NED University of Engineering and Technology, Karachi with CGPA 4.00. (**Second Position**)
- **2007-Higher Secondary Education** (Pre-Engineering), with A-1 grade from Adamjee Government Science College, Karachi.

- **2005- Secondary School Certificate** (Science), with A-1 grade from Islamia Youth Services School, Karachi.

Professional Experience

- **Assistant Professor:** From September 1, 2022 to Date in the Department of Electrical Engineering, NED University of Engineering and technology, Karachi, Pakistan.
- **Lecturer:** From February 22,2012 to August 31, 2022 in the Department of Electrical Engineering, NED University of Engineering and technology, Karachi, Pakistan.

Publications

Journal Articles:

- 1) Resistive component extraction of leakage current in metal oxide surge arrester: A hybrid method-**A Munir**, Z Abdul-Malek, RN Arshad - **Measurement**, 2021
- 2) A novel technique for condition monitoring of metal oxide surge arrester based on fifth harmonic resistive current-**A Munir**, Z Abdul-Malek, U Sultana, RN Arshad - **Electric Power Systems Research**, 2022
- 3) Electrical systems for pulsed electric field applications in the food industry: An engineering perspective-RN Arshad, Z Abdul-Malek, **A Munir**, Z Buntat, Mohd Hafizi Ahmad, Yanti MM Jusoh, Alaa El-Din Bekhit - **Trends in Food Science & Technology**, 2020
- 4) An improved electroporator with continuous liquid flow and double-exponential waveform for liquid food pasteurization-RN Arshad, Z Abdul-Malek, **A Munir**, MH Ahmad, Zainuddin Nawawi, Muhammad Abu Bakar Sidik- **IEEE Access**, 2021
- 5) Circuit-based method for extracting the resistive leakage current of metal oxide surge arrester AH Khavari, **A Munir**, Z Abdul-Malek - **Bulletin of Electrical Engineering and Informatics**, 2020
- 6) En route of electric vehicles with the vehicle to grid technique in distribution networks: Status and technological review-ZA Arfeen, AB Khairuddin, **A Munir**, MK Azam, M Faisal, MSB Arif- **Energy Storage**, 2020
- 7) Continuous flow treatment chamber for liquid food processing through pulsed electric field RN Arshad, ZB Buntat, AM Dastgheib, YMM Jusoh, **A Munir**, RM Aadil- **Journal of Computational and Theoretical Nanoscience**, 2020

8) Pulsed electric field: A potential alternative towards a sustainable food processing- Arshad, R. N., Abdul-Malek, Z., Roobab, U., **Munir, A.**, Naderipour, A., Qureshi, M. I., Aadil, R. M- **Trends in Food Science & Technology**, 2021.

Conference Articles:

1) Ageing Detection of Metal Oxide Surge Arrester using Fifth Harmonic Resistive Current
A Munir, Z Abdul-Malek - IEEE International Conference on Power and Energy 2020

2) Resistive Leakage Current Based Condition Assessment of Zinc Oxide Surge Arrester: A Review-**A Munir, Z Abdul-Malek, RN Arshad - IEEE International Conference on the Properties and Applications of Dielectric Materials (ICPADM) 2021**

3) Ageing Classification of Metal Oxide Surge Arrester Using Its Power Factor
A Munir, Z Abdul-Malek, RN Arshad - IEEE International Conference on the Properties and Applications of Dielectric Materials (ICPADM) 2021

4) Air Bubble in Liquid Food under Pulsed Electric Field Pasteurization using Coaxial Chamber
RN Arshad, Z Abdul-Malek, A Munir, MH Ahmad, MAB Sidik, Z Nawawi- IEEE International Conference on the Properties and Applications of Dielectric Materials (ICPADM) 2021

5) Lightning Flash Density Map of Pakistan on ARC-GIS® Software-An Empirical Approach
HMSA Ali, MM Aman, SJ Ahmed, S Shaikh, A Munir- IEEE International Conference on Environment and Electrical Engineering and 2018

6) Implementation of low cost non-DFT based Phasor Measurement Unit for 50 Hz power system
TA Bhatti, A Raheem, T Alam, MO Malik, A Munir- International Conference on Computing, Electronic and Electrical Engineering (ICE Cube) 2016

7) Fault detection and localization of symmetrical fault using PCA and WT- S Shaikh, A Ali, **A Munir, MA Memon- 2nd International Electrical Engineering Conference (IEEC-2017)**

8) Power quality analysis of UPS using wavelet analysis- **A Munir, O Jawaid, JA Qureshi – 45th IEP Convention, 2012**

Research Interest

- Condition Monitoring of High Voltage Insulators
- Measurement and Analysis of leakage current
- Pulse Electric Field
- Design of Energy Efficient Devices
- Power System Protection
- Power Quality

Software Skills

- MATLAB
- ETAP
- PSSE
- ATP

Achievements/ Awards

- Awarded by **Best Postgraduate Student** of Ph.D. (Gold-medal and Merit Certificate) from University of Technology, Malaysia (UTM)-2022
- Got **Best Paper Award** in 4th International conference of Electrical, Electronics, Communication and Control Engineering 2019.
- Awarded by **Merit Certificate** for obtaining second position in B.E- 2012

Personal Data

Passport/Nationality
Date of Birth
Marital Status

Pakistani
March 27th, 1989
Married