Ayesha Saeed

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ACADEMIC QUALIFICATIONS

PhD Electronic and Electrical Engineering **Ongoing since Nov 2022**
University of Strathclyde Glasgow, UK
Topic: Improvement and Understanding of Space Charge Measurements in HVDC Polymeric Dielectric Material by Pulsed-Electroacoustic (PEA) Method

MEngg. Electrical Power Systems **2010 - 2012**
NED University of Engineering and Technology Karachi, Pakistan
Grade: 3.93 CGPA (out of 4)
Dissertation: Statistical analysis on the power system's synchrophasor data before and after fault conditions.

BE Electrical Engineering **2005 - 2009**
NED University of Engineering and Technology Karachi, Pakistan
Grade: 87.97% (Passed with Distinction)
Rank: 7th out of 131

GCE A-level **2003 - 2005**
St. Patrick's High School Karachi, Pakistan
Grades: 3 A's and 2 B's

GCE O-level **2000 - 2003**
Generation's School Karachi, Pakistan
Grades: 4 A's and 5 B's

WORK EXPERIENCE

NED University of Engineering and Technology, Karachi, Pakistan

Lecturer in Electrical Engineering Department **2010 - Present**

- Supervised final year projects of Bachelors students
- Responsible for maintaining and auditing electrical engineering project laboratory as a Project Lab Incharge
- Taught the following graduate & undergraduate Courses:
  - Electrical Machines
  - Power System Analysis
  - Electrical Power Transmission
  - Electrical Power Distribution and Utilization
  - Feedback Control System
  - Basic Electrical Engineering
  - Circuit Theory

PUBLICATIONS

- A. Saeed and B. G. Stewart, "A Simulation Study of Influence of Multiple Space Charge Layers on PEA Output Signals, " *2025 100th IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP)*, Manchester, UK
- A. Saeed and B. Stewart, " Understanding the Impact of Inherent Dielectric Material Properties on PEA Output" in *59th International Universities Power Engineering Conference,* 2 September-6 September 2024, Cardiff, UK
- A. Saeed and B. Stewart, " Simulation of Non-Uniform Space Charge Distributions on PEA Measurements in HVDC Dielectric Materials " in *2024 IEEE International Conference on High Voltage Engineering and Applications (ICHVE)*, 18 August-22 August 2024, Berlin, Germany
- A. Saeed and B. Stewart, "Investigating the Impact of Pulse Rise Time in PEA Methods: A Simulation Study " in *2024 IEEE Electrical Insulation Conference (EIC)*, 2 June-6 June 2024, Minnesota, USA
- Presented poster on "Influence of Sample Thickness Variation with Embedded Space Charge Layer in PEA method: A Simulation Study" *16th Universities High Voltage Colloquium* 9th - 10th May 2024, Exeter, UK
- R. U. A. Shaikh, A. Saeed and R. Kumar, "Review on present and future integration techniques for capacitors in motor drives," *2018 International Conference on Computing, Mathematics and Engineering Technologies (iCoMET),* Sukkur, 2018, pp. 1-8

ACHIEVEMENTS/AWARDS

- Received merit-based study loan for A-levels from Habbah Educational Trust
- Secured 7th rank in BE Electrical Engineering degree with distinction.
- Completed MEngg degree with distinction and 3.93/4 CGPA.

SKILLS

- COMSOL Multiphysics FEA Tool
- ETAP
- MATLAB/Simulink

PROFESSIONAL MEMBERSHIPS

- Member of Institute of Electrical and Electronic Engineering (IEEE)
- Member of IEEE DEIS (Dielectrics and Electrical Insulation Society)
- Member of IEEE DEIS Young Professionals
- Member of IEEE Women In Engineering (WIE)

WORKSHOP

- Attended Tutorial "Assembly of space charge equipment for cables" at *ICD 2024 (International Conference on Dielectrics)*, 4th July 2024, Toulouse, France