

FEEHA AREEJ

Lecturer | Electronic Engineering

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Department Profile: <https://eld.neduet.edu.pk/teaching-staff>

Google Scholar: https://scholar.google.com/citations?user=yhF_vtcAAAAJ

ResearchGate: <https://www.researchgate.net/profile/Feeha-Areej/research>

LinkedIn: <https://www.linkedin.com/in/feehaareej/>

ORCID: <https://orcid.org/0009-0006-5259-4973>.

ACADEMIC PROFILE

Dedicated Electrical Engineer and university lecturer with strong experience in **teaching, laboratory development, outcome-based education (OBE), accreditation processes, and applied research**. Actively involved in curriculum development, academic assessment, and research dissemination, with publications in peer-reviewed journals and international conference recognition

ACADEMIC QUALIFICATION

- **M.Engg. in Electrical Engineering (Electrical Power Systems)** - NED University of Engineering & Technology, CGPA: 3.66 / 4.00
- **B.E. in Electrical Engineering** - NED University of Engineering & Technology, CGPA: 3.66 / 4.00
- **HSC (Pre-Engineering)** BAMM P.E.C.H.S. Govt. College for Women, Grade: A+1 (84.6%)

ACADEMIC & PROFESSIONAL EXPERIENCE

NED University of Engineering and Technology

Lecturer – Electronic Engineering Department | June 2025 – Present

- Developed the laboratory manual for EL-108 Computer Programming for B.E. (Electronic Engineering), applicable from Batch 2025 onwards.
- Prepared and reviewed OEL and CEP documentation for PEC compliance.
- Evaluated course files for Fall Semester 2025.
- Assessed Open-Ended Laboratory reports for EF-101 IT Fundamentals and Applications.
- Performed invigilation duties during Fall Examinations 2025.

Lecturer – Electrical Engineering Department | March 2023 – June 2025

- Taught undergraduate courses, including Basic Electricity and Electronics, Computer Programming, Feedback Control Systems, and Electromagnetic Fields.
- Conducted laboratories in core electrical engineering subjects.
- Participated in PEC Accreditation Visit 2023.
- Served as examiner and paper setter for undergraduate examinations.
- Performed invigilation duties in undergraduate and postgraduate examinations.
- Member of the Strategic Development Team, Electrical Engineering Department.
- Revised course content for Basic Electricity and Electronics.

Visiting Faculty – Electrical Engineering Department | October 2022 – February 2023

- Delivered undergraduate lectures and conducted laboratory sessions.

Nazeer Hussain University - Lab Engineer | Aug 2019 – Mar 2023

- Taught undergraduate courses including Electrical Machines, Network Analysis, Linear Circuit Analysis, Instrumentation, Electromagnetic Field Theory, DSP, Digital Logic Design, and Data Structures.
- Conducted laboratories in Electrical Machines, Power Electronics, Network Analysis, Linear Circuits, Electronics, and Digital Logic Design.
- Served as OBE Coordinator (since 2020).
- Lab In-Charge for Digital Logic Design Laboratory.
- Member of PEC accreditation preparation team.
- Departmental representative for Online Learning Management System (OLM).
- Managed examination logistics and coordination with Controller of Examinations.
- Collected and analyzed student feedback in collaboration with Quality Management Cell (QMC).
- Contributed to Self-Assessment Report (SAR) development.
- Conducted faculty training sessions on OBE course and laboratory file preparation.

S. Mehboob & Company - Consulting Engineers

Electrical Design Engineer | May 2019 – July 2019

- Performed electrical load calculations and equipment selection.
- Designed internal and external lighting layouts and small power systems.
- Prepared extra-low current layouts (Fire Alarm, CCTV, PA System, SMATV, Anti-Theft).
- Developed IT layouts, DB schedules, and Bills of Quantities (BOQs).
- Contributed to major projects including high-rise buildings, hospitals, universities, and commercial facilities in Pakistan, UAE, and Tanzania.

Internee Engineer | October 2017 – November 2017

- Acquired practical experience in lighting and power system design.
- Worked on Pioneer Building, Lahore, and visited Mega G4 Corporate Office Tower, Karachi.

Research Center for Artificial Intelligence Innovation Center (NED-UET) - Research Assistant |

December 2016 – March 2017

- Developed an **IoT-based temperature and humidity monitoring system** using Arduino and cloud storage via Wi-Fi module.

Teaching Experience (Secondary & Intermediate Levels)

- Physics & Mathematics Teacher – DK Coaching Center (2016–2017)
- Physics, Chemistry & Mathematics Teacher – IQRA Informative & Scientific School (2012–2013)
- Home Tutor (2015–2023)

SKILLS

C and C++ programming; MATLAB and SIMULINK; NI Multisim, Proteus, LTspice, Arduino, and Code::Blocks; electronic circuit design, simulation, and analysis; power system analysis, electrical design, ETAP and PowerWorld Simulator; instrumentation, IoT applications, and laboratory management; proficiency in MS Excel, Word, and PowerPoint; familiarity with Outcome-Based Education (OBE) and IEEE research tools.

RESEARCH PUBLICATIONS

1. E. Arshad, R. M. Larik, S. Aqeel Haider, A. Khidrani, A. Amjad, U. Humayun, M. Rashid, Z. A. Arfeen, F. Areej, U. Ubedullah, and F. Khairiah, "Over-Voltage Protection Circuit for Tripping and Switching of 220V Appliances Using Relay Module and Python-Based Algorithm," International Journal of Innovations in Science and Technology, vol. 7, no. 1, pp. 286–300, Feb. 2025.

2. Z. A. Arfeen, E. Arshad, R. M. Larik, A. Raheem, F. Areej, U. Ubedullah, R. Shakoor, Z.-u.-A. Akhtar, and M. Rashid, "Advanced Fault Detection, Classification, and Analysis Framework for HV Transmission Lines Using RT-Synchronized Monitoring and Control Systems," UCP Journal of Engineering and Information Technology, vol. 2, no. 2, pp. 41–51, 2025.
3. Z. A. Arfeen et al., "Community Service Paper," Journal of Engineering and Information Technology, UCP, 2025.

TRAININGS, SEMINARS & WORKSHOPS

- Training on Publishing Open Access with IEEE
- **Best Poster Presentation Award**, 9th International Electrical Engineering Conference
- QEC Faculty Development Program (31 hours / 11 sessions)
- Effective Communication & Professional Email Writing
- Integrating IEEE eBooks and eLearning in Curriculum
- Effective Research Writing (Elite Global Excellence)
- Literature Review using IEEE Xplore
- Promoting Research Articles: Tools & Services
- OneNet IoT Open Platform Workshop (Zong China Mobile)
- Workplace Communication & Work-Life Balance Workshops

PROFESSIONAL MEMBERSHIPS & CERTIFICATIONS

- Registered Engineer, Pakistan Engineering Council (PEC No: ELECT/78319)
- CPD Course: Entrepreneurship Development in Water & Wastewater Projects (0.5 CPD)
- CPD Course: Technical Team Development & Project Execution (0.5 CPD)