

Curriculum Vitae

Shariq Shaikh



Address: R-172, Sheet# 34, Saima Luxury Homes, Bagh-e-korangi, Karachi

Cell # : 0343-2895707/0311-2056707

Whatsapp #: 0343-2895707

Contact ID: shariqshaikh@neduet.edu.pk / shariq.shaikh@hotmail.com

Career Objective

Looking to work for a dynamic and reputed institute in multi-disciplinary aspects of **Electrical Engineering** to put in my abilities for contribution towards the advancement in scientific research and quality of academics.

Working Experience

Area: Academics

1. **Current Designation: Assistant Professor** (*Electrical Engineering Department*).
Duration: March, 2018 till present
2. **Previous Designation: Lecturer** (*Electrical Engineering Department*).
Duration: July, 2014 – March, 2018

During my service, I have taught at various levels in multiple engineering disciplines of NEDUET which are listed as follows:

Bachelors of Engineering, Electrical

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| ✚ Power System Analysis. | ✚ Power System Protection. |
| ✚ Basic Electrical Engineering. | ✚ Electrical Power Transmission. |
| ✚ Instrumentation. | ✚ Electromagnetic fields. |
| ✚ Electrical Machines. | ✚ Electrical Technology Fundamentals. |
| ✚ Principles of Electrical Engineering | ✚ Electrical Power Distribution System |

Masters in Engineering, Electrical Power System

- ❖ Renewable energy process and integration with power system.
- ❖ Electrical Power Transmission System Engineering (A.C/D.C Network).
- ❖ Reactive Power Control and Management.
- ❖ Power System Analysis I.
- ❖ Power System Analysis II.
- ❖ Computer Methods in power system

B.Tech Conversion programme, Electrical and others

- Taught all relevant subjects covering the domain of Electrical Engineering at NEDUET.
- Served as trainer for HANDS-ON training of technicians at Pakistan State Oil, PSO held in 2020 and 2021

- Served as lead trainer for K-Electric Generation and transmission workers certified training program.
- Conducted trainings for undergraduate students regarding MATLAB and power system.
- Arranged several visits of undergraduate students in collaboration with IET and IEEE PES.

Additional Tasks

- ✓ Performed additional managerial tasks at electrical engineering department as **Examination Factotum, Final Year Project Coordinator, Undergraduate Coordinator, All lab in-charge** and **B.E Class Advisor, seminar and workshops organizer in collaboration with IEEE-PES and IET.**
- ✓ Conferences arranged:
 - **7th IEEC-2022:** Worked as program organizing committee member held in Mar-2022.
 - **6th IEEC-2021:** Worked as member organizing committee and paper reviewer held in Apr-2021.
 - **5th IEEC-2020:** Worked as member organizing committee and paper reviewer held in Feb-2020.
 - **4th IEEC-2019:** Worked as member organizing committee and paper reviewer held in Jan-2019.
 - **3rd IEEC-2018:** Worked as member organizing committee and paper reviewer held in Feb-2018.
 - **ICCEEE, 2017:** Worked as Conference Deputy Secretary & paper reviewer held in August-2017.
 - **2nd IEEC-2017:** Joint Programme secretary & paper reviewer held in May 2017.
- ✓ Attended various **seminars, trainings** and **visits** in collaboration with different organizations **IEEE, IEP, IEEE-PES** and **IET.**

Area: On field

Senior Executive Engineer (Aisha Steel Mill Limited).

- Served at **AISHA STEEL MILL LIMITED** since commissioning to operation and maintenance in following areas from **April, 2012 to July, 2014.**

POWER

- ✓ **132KV** grid station operation, **Transformer** maintenance & testing, **Cable** sizing and testing, preventive and shutdown maintenance and operations of **11KV** sub-stations & **LV** sub-stations, **LV** modules for Motors Control, motor testing, calculation; ordering and maintaining data of spare parts.

CONTROL AND INSTRUMENTATION

- ✓ **Annealing Plant:** Plant operations, Furnace control and calibration, **PLC S7-300** operation and troubleshooting, power logics and looping, control logics, control wiring, Control relay settings, **HMI** handling, General and specific Instrumentation of Plant, calculation; ordering and maintaining data of spare parts and to prepare plan for maintenance.
- ✓ **Hydrogen plant:** Plant operations, DC distribution system of control, control logics and wiring, fault trouble shooting, , **HMI** handling, General and specific instrumentation of plant, calculation; ordering and maintaining data of spare parts and to make maintenance plan.

Technical Publications

S.#	Details of Research Papers	Status
1	An article in ICEPT-2023 on the topic of “ Data driven approach for power system state estimation with consideration of multi-level noise ”	Published
2	An article in ICEPECC-2023 on the topic of “ Voltage Profile Enhancement of an IEEE 14 Bus System by using SVC ”	Published
3	An article in NCETIET-2021 on the topic of “ Data Acquisition System and Real time monitoring of the parameters of Induction Motor via Wireless Communication ”.	Published
4	An article in IEEC-2019 on the topic of “ Magneto Hydro Dynamics (MHD): Making a case for Innovative Generation Pakistan Environment ”	Published
4	An article in IEEE conference (EEEIC/I&CPS) Europe 2018 on the topic of “ Lightning Flash Density Map of Pakistan on ARC-GIS® Software - An Empirical Approach ”.	Published
5	An article in 2 nd International Electrical Engineering Conference IEEC-2017 on the topic of “ Three Phase Fault Detection and Localization using PCA and Wavelet Analysis ” .	Published
6	An article in “4 th International conference on Energy, Environment and Sustainable Development at MUET on the topic of “ Under Voltage Load Shedding Scheme to provide voltage stability ”.	Published
7	An article in 2 nd International Electrical Engineering Conference IEEC-2017 on the topic of “ Comparison of excitation systems St1A and St2A for network stability ”.	Published
8	An article in 2 nd International Electrical Engineering Conference IEEC-2017 on the topic of “ Evaluation of electromagnetic environment impact of different transmission line configuration used in Pakistan ”.	Published

Currently working in the area of “power system state estimation” as a PhD scholar in the department of electrical engineering.

Education

- ↑ Enrolled in PhD program at Department of Electrical Engineering in NEDUET since November 2018.
- ↑ Accomplished **Master’s degree** in Power Systems (Course work plus Dissertation) with 3.73 CGPA in June, 2015 from **NEDUET**, Karachi under the title:
“**Power System operation analysis using pattern recognition techniques on synchro-phasor data**”.
- ↑ Completed **Bachelor’s degree** in Electrical Engineering (Power) with 84.54% in Dec, 2011 from **NEDUET**, Karachi.

Local and International Tests

- ♣ Cleared **IELTS** exam (Academic) with 7.0/9.0 overall band score in April 2017.
- ♣ Qualified **GAT Subject** (Electrical Engineering) exam in November 2017.

Personnel Skills and Hobbies

- ◆ Have good communication, confidence, leadership and convincing skills.
- ◆ Enjoyed managing several tasks at a time as a challenge.
- ◆ Determine to work for the **Education** and **Awareness** throughout my life.
- ◆ Present motivational speeches to student and counsel them for future.
- ◆ Involve in talks from which I can get some knowledge and experience for future.
- ◆ Like to play variety of sports.

References

Name: Dr. Muhammad Mohsin Aman
Designation: Associate Professor, NEDUET
Relation: Current Research Supervisor
Cell #: 0345-3113446
Email ID: mohsinaman@neduet.edu.pk
Office Address: EED. NEDUET, Karachi

Name: Dr. Mirza Muhammad Ali Baig
Designation: Assistant Professor, NEDUET
Relation: Final year Project Supervisor
Cell #: 0334-3314958
Email ID: mohdali@neduet.edu.pk
Office Address: EED. NEDUET, Karachi