

Curriculum Vitae

Shariq Shaikh



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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 II.

B.Tech Conversion programme, Electrical

All relevant subjects covering the domain of Electrical Engineering.

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.**
- ✓ Conferences arranged:
 - **3rd IECC-2018:** Worked as member organizing committee held in Feb-2018.
 - **ICCEEE, 2017:** Worked as Conference Deputy Secretary & paper reviewer held in August-2017.
 - **2nd IECC-2017:** Joint Programme secretary & paper reviewer held in May 2017.
- ✓ Attended various **seminars, trainings** and **visits** in collaboration with different organizations **IEEE, IEP, IEEEEP** 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
<u>JOURNAL PAPERS</u>		
1	An article in international journal of " <i>Renewable and Sustainable Energy Reviews</i> " in March, 2017 on the topic of " A review of design and protection of Shunt Capacitor Bank ".	In review
2	An article in " <i>Technical journal of UET-Taxila</i> " on the topic of " A review of MHD generation technology & implementation steps in Pakistan ".	In review
3	An article in " <i>Technical journal of UET-Taxila</i> " on the topic of " Determination of life expectancy of induction motor using thermal imaging-A case study ".	In review

CONFERENCE PAPERS

- 1 An article in 2nd International Electrical Engineering Conference IEEC-2017 on the topic of **“Three Phase Fault Detection and Localization using PCA and Wavelet Analysis”** . Published
- 2 An article in “4th International conference on Energy, Environment and Sustainable Development at MUET on the topic of **“Under Voltage Load Shedding Scheme to provide voltage stability”**. Published
- 3 An article in 2nd International Electrical Engineering Conference IEEC-2017 on the topic of **“Comparison of excitation systems St1A and St2A for network stability”**. Published
- 4 An article in 2nd 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 engaged in multi-dimension research in conjunction with PhD scholars in domain of Reactive Power Control, Economic Dispatch, Optimization of Power Flow, HVAC/HVDC systems and Wavelet Analysis.

Education

- ↑ 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
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Name: Dr. Mirza Muhammad Ali Baig
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Relation: Final year Project Supervisor
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