

IQBAL AZEEM

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Education

Masters of Engineering (M. Eng.), Electrical Power Systems Engineering (CGPA: 3.84 out of 4) 2013- 2015

Dissertation Advisor: Dr. Muhammad Ali Memon

Thesis: Design of On-Grid Wind and Solar Energy Integration System.

NED University of Engineering & Technology, Karachi, Pakistan

Bachelors of Engineering (B.E.), Electrical Engineering (PERCENTAGE: 84.2% out of 100) 2009-2012

Project Advisor: Mr. Hassan ul Haq

Thesis: Auto Mobile Data Acquisition with Remote Monitoring and Performance Evaluation.

NED University of Engineering & Technology, Karachi, Pakistan

Professional Experience

1. **Lecturer** (BPS-18) in *Electrical Engineering Department, NED University* since June 2013 to date

2. **Trainee Engineer** in *Allied Engineering & Services (Pvt.) Ltd* from Feb 2013 to May 2013

3. **Intern** at *SIEMENS(Industrial Manufacturing Depart)* from Dec 2011 to Jan 2012

Research Activities & Publications

- Reviewed articles in 2nd International Electrical Engineering Congress (IEEC 2017) in April 2017.
- **Iqbal Azeem**, Abdul Maalik Naeem, Umair Anwar, Shayan Khan, Shakir Jilani and Hassina Suleman Shah, "Power Sharing using Phase Shift Mechanism in Grid Interactive Photo-voltaic Power Systems," presented at the 2nd International Electrical Engineering Conference (IEEC 2017), IEP Centre, Karachi, Pakistan, 2017.
- S. F. Afrah Ziauddin, Samra Ashraf, **Iqbal Azeem** and Riaz Uddin, "Wireless Building Automation Using ESP8266: An Energy Efficient Approach," presented at the 2nd International Electrical Engineering Conference (IEEC 2017), IEP Centre, Karachi, Pakistan, 2017.
- **Iqbal Azeem**, Muhammad Hammad Uddin, Mirza M. Ali Baig and S. A. Qazi, "A Novel Curve-Selecting Variable Step-Size MPPT Method for a PV System," *Solar Energy*. (Review Process).
- **Iqbal Azeem**, "Design of On-Grid Wind and Solar Energy Integration System," ME, Electrical Engineering, NED University of Engineering & Technology, Karachi, 2015.(Thesis)
- **Iqbal Azeem**, Hunain Akhai, Bilal Ahmed, Umer Hayat and Faisal Hameed "Auto Mobile Data Acquisition with Remote Monitoring and Performance Evaluation," BE, Electrical Engineering, NED University of Engineering & Technology, Karachi, 2012.(Thesis)

Scholarships & Awards

- NED University Scholarship for ME (75% fees waive-off).
- Merit Scholarship for BE from Bhai-Mia (NED) & University of Karachi Alumni Association in Canada (UKAA).
- Project grant of Rs. 54,000 for FYP (Final year project) from RCT R&D.
- Received ISO Feedback from students of rating "Very Good" and "Excellent" in theory courses taught at post graduate and undergraduate.

Short Courses

- **PLC (Programmable Logic control)** from *NED University*, Karachi
- **PIC Microcontroller Based Embedded System** from *SkillTech International*, Karachi.

Teaching Assignments

The following is the list of courses taught in teaching assignments till date

Post Graduate

Electrical Power Distribution-II EE-5410

Electrical Power Transmission System EE-526

Undergraduate

Feedback Control System EE-474 (Lab)

Electrical Machines Theory and Design EE-445 (Lab)

Programming with C-language EE-262 (Theory)

Circuit Theory EE-217 (Theory)

Computers and Programming EE-163 (Theory)

Principles of Electrical Engineering EE-116 (Theory)

Official Assignments

- IT-head and Program Committee in the 2nd International Electrical Engineering Congress (IEEC 2017) on May 19th and 20th jointly organized by NED University and Institute Engineers Pakistan (IEP), Karachi.
- Technical Session Chair in the 1st Electrical Engineering Congress (IEEC 2016) on May 13th and 14th jointly organized by NED University and Institute Engineers Pakistan (IEP), Karachi.
- Member at Program Committee for PEC Re-accreditation of BE Electrical Engineering at NED UET.
- Class Advisor for SE in NED UET (2014~2015 and then 2016~2017).
- Designed Pre-Lab and Post lab of Feedback Control System (EE-474) in collaboration with Dean EED.
- Designed complete Course Outline and Training Manual for Electrical for STEVTA -Training of Trainers Project under Sind Skills Designed complete Course Outline and Training Manual for Electrical for STEVTA -Training of Trainers Project under Sind Development Project.
- BE Project Internal Advisor.
- Exam's Factotum/Invigilator.
- Counselor in Open-Day for fresh student.
- Modified and modernized course outline for following courses offered to batch 2014-15
 - Power Generation Electrical Power Distribution and Utilization
 - Electrical Machines Alternate Energy and Renewable Energy

Selected Supervised Final Year Projects in B.E.

- Virtual Changing Room (2018)
- Inverter Generator (2018)
- Generator SCADA System (2018)
- 3-Phase fault identification and Monitoring System using LabVIEW (2017)
- Grid Tie Inverter (2016)
- Design and Implementation of On- Grid Power Sharing Device and Monitoring Unit (2015)
- Intelligent Load management System (2014)
- "Smart UPS" – Compact tool for UPS that enables user to get Graphical and Digital representation of instantaneous Current, Voltage & Power, Units consumed (incorporating billing amount also), battery backup and efficiency (2014)

Software Skills

Proficient in using the following software listed as follows:

- LaTeX
- EndNote
- Proteus
- PIC C compiler
- Mikro C PRO
- MATLAB
- Multisim
- Minitab
- Prezi
- MS Project
- MS Visio
- Zotero
- LabVIEW
- MS Office

Workshops and Trainings

- Attended one month training on “ABB-Lab Equipment” from 02-10-2017 to 03-11-2017 at Electrical ABB Lab.
- Attended Training on “Entrepreneurship” from 24-10-2017 to 27-10-2017 at CIS Lecture Hall. Four days training on “*LaTeX Referencing Tools for Academic Profession*” by Dr. Saad Ahmed Qazi.
- Attended Training at “*K Electric Meter Testing Lab*” which gives better understanding of meter testing procedure and working of meter Testing Device of K Electric.
- Two days training on “*IT Tools for Academic Profession*” by Dr. Shehzad Hasan & Dr. Muhammad Ali Ismail.
- Participated in several technical committee meetings of Pakistan Standards and Quality Control Authority (PSQCA) to develop and improve Electrical system standards in Pakistan.
- Participated in IEEE PES Seminar on “*Path Way to Smart Engineering*” at NED University.

Faculty Coordinator for Industrial Visits

- Karachi Atomic Nuclear Power Plant (KANUPP I, II and III)
- HUBCO Power Plant
- Bin Qasim Power Plant (BQPS-I&II)
- Pakistan Cable Factory with BE students
- K-Electric Meter Testing Laboratory

Memberships

- Pakistan Engineering Council Registered Engineer (PEC # Elect/37694)
- IEEE Young Professional Member
- IEEE Graduate Student Member (ID #93253781)
- IEEE PES Member