Dr. Faisal Q. Alenezi

Personal Data

Place of Birth: Kuwait City, Kuwait
Address: P.O. Box 43, 73461, Alrowda, Kuwait
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Work Experience

Current Assistant Professor - Electrical Engineering Tech. Dept.
May 2015 *College of Technological Studies, PAAET, Kuwait*
Courses offered: Renewable Energy (Photovoltaic Systems, Wind Turbines and Energy Storage Systems), Electrical Power Systems (Generation, Operation and Control, Transmission and Distribution, Protection, Harmonic Analysis & Stability), Linear Systems Analysis, Electrical Measurements and Installations, Power Electronics.

April 2015 Lecturer - Electrical Engineering Tech. Dept.
April 2007 *College of Technological Studies, PAAET, Kuwait*
Taught courses in electrical power systems, power electronics, Electrical Measurements, Installations and industrial Safety. Member of the OAR committee for PAAET. Headed of the electrical engineering technology department's research committee and a member of the college research committee.

March 2007 Instructor - Electrical Engineering Tech. Dept.
Sept 2000 *College of Technological Studies, PAAET, Kuwait*
Taught courses in electric power, electric machines, electronics (basics, devices and circuits), digital systems, Introduction to computers, electric instruments-Measurements, Electric circuits, Installations (Kuwait Code), power electronics, electric Machines I and electric Machines II. Also designed and taught special courses for the ministries of energy, transportation, and public works and Kuwait National Petroleum Company.

Aug 2000 Assistant Teacher – Electrical Engineering and Computer Dept.
Feb 1994 *College of Engineering & Petroleum, Kuwait University, Khaldiya, Kuwait*
Taught courses in Electrical Power Systems, Electric Machines, Electronics and Installations. Developed materials, programs (ETAP, MICROTRAN, EMTP, ERACS and DOC), and lectured in the intensified orientation courses for ministries of Oil, Transportations, electricity and water. **Training Programs for UD engineers**: Lectures include smart grid (with Software), power line carrier communication, power electronics, synchronous generators, installations, and induction machines.

Education

May 2015 Doctor of Philosophy in Electrical & Computer Engineering,
University of Southampton, Southampton, Hampshire, United Kingdom.

March 1998 Masters of Science in Electrical & Computer Engineering,
Kuwait University, Kuwait.

Feb 1994 Bachelor of Science in Electrical & Computer Engineering,
Kuwait University, Kuwait.

Publications

1. F. Q. Alenezi, J. K. Sykulski, and N. A. Ahmed (2011), *Visibility and Potential of Solar Energy on Horizontal Surface at Kuwait Area.* In Proceedings of the IEEE International Conference on Smart Grid and Clean Energy Technologies (IEEE- ICSGCE), 27-30 September 2011, Chengdu, China

2. F. Q. Alenezi and J. K. Sykulski (2012), *Modelling of a Photovoltaic Module Considering the Solar Energy Available from Horizontal Surfaces over Kuwait Area.* Journal of Electronic Science and Technology, 10 (2), Summer Issue, pp. 173-180, ISSN 1674-862X

3. F. Q. Alenezi, J. K. Sykulski and M. Rotaru (2014), *Grid-connected photovoltaic module and array sizing based on an iterative approach.* SGCE International Journal of Smart Grid and Clean Energy, 3 (2), Spring Issue, pp. 247-254

4. F. Q. Alenezi, J. K. Sykulski and M. Rotaru (2014), *Modelling and Simulation of a Grid-Connected PV System based on Efficient Maximum Power Point Tracking Algorithm.* Engineering Research and Applications, Vol. 4 – Issue 11 (part III), 1-9, ISSN: 2248-9622

5. F. Q. Alenezi and M. Rotaru (2015), *Off-Grid photovoltaic array sizing Exploiting the Weighted-Sum Method.* Renewable & Sustainable Energy Review, Vol. 43, no. 2, pp. 158-162, ISSN 1364-0321

6. F. Q. Alenezi and M. Rotaru (2016), *Off-Grid photovoltaic module sizing based on Pareto Frontier and Exploiting the Weighted-Sum Method.* Renewable & Sustainable Energy Review, Vol. 44, no. 1, pp. 204-208, ISSN 1364-0321

7. Ziad M. Alia, F. Q. Alenezi, Sameh S. Kandild and Shady H.E. Abdel Aleeme (2018), *Practical considerations for reactive power sharing approaches among multiple-arm passive filters in non-sinusoidal power systems.* Electrical Power and Energy Systems journal elsevier, December 2018, Pages 660-675

8. Hala M Abdel Mageed and F. Q. Alenezi (2020), *Traceability of DC and AC high voltage measurements using voltage divider calibration*. International Journal of Electrical Engineering Education, 55(2) 109–119

9. Hala M Abdel Mageed and F. Q. Alenezi (2022), *A multi-Energy Recovery Procedure to Harvest the Energy from Photovoltaic Arrays During Full Shading.* International Journal of Electrical Engineering Education, 49(1) 94–102

Honors, Recognition

- Certificate from his highness the Amir for the excellence in Bachelor's degree.
- Certificate from his highness the Amir for the excellence in Master's degree.
- Academic excellence by inclusion of the Dean's List in Masters of Science degree.
- Certificate of appreciation from the President of University of Southampton to contribute to the development of sustainable programs during the PhD.
- ABB Pioneering Technology Trade Award as an ETAP Software training accreditation.
- Ministry of Electricity and Water Award for "Tarsheed" campaign accreditation.
- Award from Kuwait University for presenting intensive courses in power systems analysis, electrical measurements, instrumentations, installations, renewable energy resources and smart grid.
- Public Authority for Applied Education and Training PhD Scholarship.

Activities

- Member of IEEE Power Energy Society.
- Member of ABB ETAP Committee.
- Member of Energy Research Committee of the Gulf Centre for Strategic Studies.
- Member of College of Engineering & Petroleum Association (Kuwait).
- Member of Kuwait Engineering Society.
- Support Red Cross.

Areas of Research

- Power System analysis.
- Electrical Instrumentation, Measuring and Installations.
- Renewable Energy Resources (Manufacturing and Interconnections).
- Smart Grid and Clean Energy.

Languages

Arabic: Mother tongue
English: Fluent
Italian: Basic Knowledge

Computer Skills

Expert Knowledge: MATLAB, PSIM, C, Microsoft Office.
Intermediate Knowledge: Access, HTML.

Interests and Activities

Swimming, Golf
Technology ChatGPT Open AI, Open-Source
Reading, Writing.