

Galal Fathy Abdelaal

Assistant Professor of Electrical Power Engineering

Phone: +2 01003705004

Email: galal.abdelaal@gmail.com

Lecturer and scientific researcher with 13+ years of experience in the academic field. Experienced in designing and supervising electrical installations of buildings.

Personal Details

Gender	Male
Date of Birth	October 1 st , 1986
Religion	Muslim
Nationality	Egyptian
Marital Status	Married

Academic/Teaching Experience

Oct. 2021 - Present	Lecturer at Electrical Power and Machines Engineering Department, High Institute of Engineering, El Shorouk City
2008 - Sep. 2021	Teaching Assistant at Electrical Power and Machines Engineering Department, High Institute of Engineering, El Shorouk City

Education

2016 - 2021	PhD in Electrical Power and Machines Engineering Cairo University Electrical Power Engineering Department Thesis title: "Enhancement of Electric Vehicles Integration in Residential Distribution Sector" Thesis supervisor: Professor Mahmoud Gilany Short abstract: Propose coordinated charging strategies of electric vehicles charging sessions to mitigate the effect of uncoordinated charging activities.
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2011 - 2015

MSc in Electrical Power and Machines Engineering

Cairo University

Electrical Power Engineering Department

Thesis title: "Voltage Stability Enhancement of Radial Distribution Networks"

Thesis supervisor: Professor Mahmoud Gilany

Short abstract: Identify the optimal size and location of DG/capacitor bank to improve the voltage stability of the distribution network.

2003 - 2008

BSc in Electrical Power and Machines Engineering,

High Institute of Engineering, Elshorouk City

Electrical Power and Machines Engineering Department

Achieved 2nd class honors

Publications

2021

[1] G. Abdelaal, M. I. Gilany, M. Elshahed, H. M. Sharaf, and A. El'Gharably, "Integration of Electric Vehicles in Home Energy Management Considering Urgent Charging and Battery Degradation," *IEEE Access*, vol. 9, pp. 47713-47730, 2021, doi: 10.1109/ACCESS.2021.3068421.

[2] G. Abdelaal, M. I. Gilany, M. Elshahed, H. M. Sharaf, and A. El'Gharably, "A Smart On-Line Centralized Coordinated Charging Strategy in Residential Distribution Networks," *International Journal of Renewable Energy Research*, vol. 11, no. 2, pp. 523-534, 2021.

2015

[3] G. Abdelaal, A. El'Gharably, M. Sayed, and M. I. Gilany, "Optimal DG Allocation to Enhancement the Voltage Stability of Distribution Network using Firefly Optimization Technique", *The 17th International Middle East Power Systems Conference MEPCON2015*, Mansoura University, 15-17 December 2015.

Other Qualification

2010 - Present

12 years' experience in building electrical installations.

- Complete design.
- Light current.
- Earthing systems.
- Bill of quantities (BOQ) table.
- Supervising design and costing of projects.

Computer Skills

- Power system simulation and analysis programs (ETAP, DIgSILENT).
- MATLAB.
- PLC programming.
- DIALux, lighting design software.
- Autodesk Revit.
- Autodesk AutoCAD.
- Microsoft Office.

Languages

- Arabic.
- English.

References

- **Professor Mahmoud Gilany** - Cairo University, +2 01005074206, drgilany@gmail.com
- **Professor Doaa Khalil** - Cairo University, +2 01224232822, doaakhalil73@gmail.com
- **Professor AboulFotoh Mohamed** - High Institute of Engineering, +2 01004881722, a.abdelreheem@sha.edu.eg