

**1. Name: Galal Fathy Abdelaal**, Assistant Professor of Electrical Power Engineering, Higher Institute of Engineering, Elshorouk Academy.

**2. Degrees:**

- BSc in Electrical Power and Machines Engineering, Higher Institute of Engineering, El-Shorouk City, Egypt. 2008
- MSc in Electrical Power and Machines Engineering, Cairo University. 2015
- PhD in Electrical Power and Machines Engineering, Cairo University, Egypt. 2021

**3. Years of Service on Faculty: 16**

- 09/2008 - present
  - Assistant Professor 2021- present.
  - Teaching Assistant 2008 – 2020.

**4. Consulting Activities (selected)**

- 15 years' experience in building electrical installations.
  - Complete designs.
  - Light current.
  - Earthing systems.
  - Bill of quantities (BOQ) table.
  - Supervising design and costing of projects.

**5. Principal publications of last 5 years (selected):**

- 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.
- 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.
- 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.

**6. Institutional services history:**

- Undertook to teach the following course
  - Power System Analysis,
  - Electrical Machines,
  - Special Machines,
  - Machine drives & Controls,
  - Renewable energy, and Electrical Testing,
  - Computer programming and machine learning.
  - Practical training in industrial control processes.
- Supervising graduate projects.
- Supervising electrical machines practical laboratory.
- Providing learning materials on the online learning environment site.
- Familiar with program accreditation requirements.
- Member of the program accreditation committee of the electrical power and machines department.