

Curriculum Vitae (CV)

Taghreed Said Abdou Metwally

Personal Information:

Academic Rank: Associate Professor
Department: Electrical Engineering
Specialization: Electrical Power engineering
Position: Associate Professor
Google Scholar: [Taghreed Said - Google Scholar](#)
Research Gate: [Research profile \(researchgate.net\)](#)
ORCID Record: [Taghreed Said \(0000-0002-8153-2855\) - ORCID](#)
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Education

Degree	Discipline	Institution	Year
Ph.D.	Electrical Power	Zagazig university	2019
M.Sc.	Electrical Power	Zagazig university	2014
B.Sc.	Electrical Power & Machine	Zagazig university	2008

Academic Experience

Institution: Higher Technological Institute

Rank: Associate Professor

Dates: 2025

Institution: Higher Technological Institute

Rank: Assistant professor

Dates: 2019

Institution: Higher Technological Institute

Rank: Research Assistant (PhD student)

Dates: 2014

Institution: Higher Technological Institute

Rank: Teaching Assistant

Dates: 2009

Publications:

- Particle Swarm Optimization and Genetic Algorithm for Convex and Non-Convex Economic Dispatch.
- Numerical Investigation of the Optimal Characteristics of a Transverse Layer of Dielectric Barrier in a Non-uniform Electric Field.
- Moth-Flame Algorithm for Accurate Simulation of a Non-Uniform Electric Field in the Presence of Dielectric Barrier.
- Integrated MFFNN-MVO approach for PV solar power forecasting considering thermal effects and environmental conditions.
- PV solar power forecasting based on hybrid MFFNN-ALO
- Artificial intelligence applications for microgrids integration and management of hybrid renewable energy sources.
- Techno-economic configuration of a hybrid backup system within a microgrid considering vehicle-to-grid technology: A case study of a remote area
- Experimental Investigation of AI-enhanced FPGA based Optimal Management and Control of an Isolated Microgrid
- Implementation of a Multistage Predictive Energy Management Strategy Considering Electric Vehicles Using a Novel Hybrid Optimization Technique

Certifications or Professional Registrations:

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|---|---|
| • Sustainable Development in Higher Education | • Internal audits on laboratory quality systems |
| • Professional ethics and behavior in university work | • International Publishing of Scientific Research |
| • Emergency and First Aid | • Work Stress Management |
| • Credit Hours and Academic Advising | • Digital Transformation in Higher Education |
| • Tot Proposal writing | • Power system distribution diploma. |
| • PV system design | • International publishing and non-quotes |
| • Teaching strategies and effective learning for higher education colleges and institutes. | • Examination systems and student evaluation of higher education colleges and institutes. |
| • Concepts of ensuring the quality of education and accreditation for academic leaders in higher education colleges and institutes. | • . Description of programs and courses and evaluation of learning outcomes for higher education colleges and institutes. |
| • PLC course in Technical Institute for Advanced Industries of the Ministry of Military Production. | • International Computer Driving License (ICDL). |
| • AUTO CAD | • MATLAB |

Teaching Experience:

- Higher technological institute 10th of Ramadan city from 2009 till present