



Curriculum Vitae

1. Personal Data:

- **Name:** Zeinab Gamal Hassan Moussa
- **Position:** Lecturer
- **Department:** Electrical Power Engineering
- **Academic E-Mail:** zainab.gamal@et5.edu.eg



2. Specialization:

- **General Specialization:** Electrical Power and Machines.
- **Specific Field:** Power System Analysis.

3. Academic Qualifications:

- **Ph.D. Degree of Philosophy in Power and Electrical Machines** **05/2019**
Faculty of Engineering, Ain Shams University
Thesis Title: Enhancement of Power System Operation Using Modern Optimization Techniques.
- **M.S.C Degree in Power and Electrical Machines** **06/2013**
Faculty of Engineering, Ain Shams University
Thesis Title: Out of Step Detection Using Phasor Measurement Unit PMU
- **Bachelor of Power and Electrical Machines** **08/2007**
Faculty of Engineering, Ain Shams University University
Grade: Very Good with Honor Degree, 83.56%.

4. Publication

- Y. Abdelaziz, A. M. Ibrahim and Z. G. Hassan, " Phasor Measurement Units for Out of Step Detection ", Proceedings of the 8th International Conference on Electrical Engineering ICEENG-8, Military Technical College, Cairo, Egypt, 29 – 31 May 2012.
- A. Y. Abdelaziz, Amr M. Ibrahim and Zeinab G. Hasan, " Transient stability analysis with equal-area criterion for out of step detection using phasor measurement units", International Journal of Engineering, Science and Technology, Vol. 5, No. 1, 2013, pp. 1-17.
- Y. Abdelaziz, Amr M. Ibrahim, Zeinab G. Hasan, "Phasor Measurement Units For Out-Of-Step Detection of A Multi-Machine System Using System Reduction", Science and Engineering, Vol. 1(2), 121-132, 2013.
- Almoataz Y. Abdelaziz , Amr M. Ibrahim, Zeinab G. Hassan , "Out of Step Detection Based on Phasor Measurement Units and Parallel Algorithms for Multi-Machine System", Proceedings of the Sixteenth International Middle East Power Systems Conference (MEPCON' 2014), Cairo, Egypt.
- Zeinab G. Hassan, M. Ezzat, Almoataz Y. Abdelaziz, " Solving Unit Commitment and Economic Load Dispatch Problems Using Modern Optimization Algorithms",



International Journal of Engineering, Science and Technology Vol. 9, No. 4, 2017, pp. 10-19.

- **Zeinab G. Hassan, Mohamed Ezzat, Almoataz Y. Abdelaziz, " Enhancement of Power System Operation Using Grey Wolf Optimization Algorithm", International Middle East Power System Conference (MEPCON), Menoufia University, Egypt, 19-21 December 2017.**

5. Working Experiences

- **Lecturer** **2019:Till Now**
Higher Institute of Engineering and Technology, Fifth Settlement, New Cairo
- **Assigned Lecturer** **2021-2022**
Faculty of Engineering and Technology, Badr University
- **Teaching Assistant** **2013:2019**
Higher Institute of Engineering and Technology, Fifth Settlement, New Cairo
- **Demonstrate** **2007:2013**
Higher Institute of Engineering and Technology, Fifth Settlement, New Cairo