Curriculum Vita

Assistant Prof. Hamdi Ali Mohammed

High Institute of Engineering & Technology, Minia , Egypt
Mobile: 01015534890
E-mail: hamdi_ali@Mhiet.edu.eg

A Dedicated and Creative Lecturer, Coordinator, Researcher & Trainer in the Field of Electrical Engineering Dept. with Distinguished Academic & Interpersonal Skills in Teaching Electrical course, Computer science.

- **Creative** and **enthusiastic** Lecturer**,** Computer-**trainer**, experience in the field of **Electrical Engineering**, **conducting** training for different students & adults and **making** papers in the field of Electrical Engineering.
- Experience in **Lecturer** students in **Faculty of Engineering, Al-Azhar Qena university, Sohag University and El-Minia Higher Institute of Engineering & Technology.**
- **Good at** communicating with students, **solving problems**, and **making** decisions quickly.
- Experience in Conference Attendance as presenter for papers related to Electrical Engineering Dept.

PERSONAL INFORMATION

Full Name: Hamdi Ali Mohammed Ali

Date of Birth: 10-5-1957.

Place of Birth: Egypt - Qena.

Nationality: Egyptian.

Marital Status: Married.

Present Job: Assistant Professor in Electrical and Computer Eng. Dept., Higher Institute of Engineering & Technology, Minia, Egypt.

Address: High Institute of Engineering & Technology – El-Minia – Egypt

Mobile: 01015534890

Military Status: Finished

M**other Language:** Arabic

S**econd Language:** English

Email: hamdi.hesha@mhiet.edu.eg

JOB HISTORY

Position	Place	From - To
Assistant Professor	Electrical Engineering Department,	`/5/2011 – till now

	High Institute of Engineering & Technology – El-Minia - Egypt.	
Transformers Maintenance Engineer	Aluminum Company, Qena, Egypt.	From 1982 to 1998.
Transformers Maintenance Engineer	Abu Dhabi Transmission & Despatch Company (TRANSCO)	From 1999 to 2006
Consultant Engineer	Abu Dhabi National Bureau.	From 2006 to 2007.

TEACHING EXPERIENCES

Teaching Experience

El-Minia Higher Institute of Egngineering & Technology **1st , May 2011- till now**

A- B.Sc. Courses

- Industrial Electronics.
- Wave Shaping
- Shaping Circuits
- Electronic Lab(1) , (2), and (3)
- Practical Training (1), (2), and (3)
- Advanced Electronics
- Digital System Lab
- Logic Circuit
- Antenna and Wave propagation
- Transmission Lines
- Electronic Circuit.
- Electro-magnetic Fields (1) * (2).
- Theory of Sampling

B- B. Sc Projects

- Design of Photovoltaic energy system interconnected with utility grid to feed certain load.
- Implementation of Automatic Solar Radiation Tracker system for Photovoltaic power System
- Design optimization and Control of wind and PV interconnected with grid
- Design and Implementation of smart home
- Design and Implementation of small-scale distribution system.
- Design and Implementation of automatic production line.
- Design of elevator system.
- Computer Servce in automation

C-Science Supervision

i-PHD degree-Department of electric Engineering-Faculty of Engineering-Al-Menia University.
Title :"Design, Analaze and Performance Photo-Voltaic system Connected with grid Network"
Eng. Montaser Abd El-Sattar Mohammed Saeed---2012—2015

ii-MSC-degree-Department of electrical engineering-Faculty of Engineering-Al-Menia University
Title:" Design and Simulation of a Microcontroller-Based Inverter and DC-DC Converter".
Eng. Mohamed Morad Salama----2014--2016

iii-PHD-degree- Department of electric Engineering-Faculty of Engineering-Al-Menia University
Title: "Analysis and control of wind driven double fed induction generator using optimized control techniques"
Eng. Omar Makram Kamel-------2014----2018

iiv- PHD-degree- Department of electric Engineering-Faculty of Engineering-Al-Menia University
Title: The Thesis in the field of induction motor control.

Eng. Ahmed Gamal Mahmoud-------2017----2021
iv-MSC-degree-Department of Electrical Engineering-Faculty of Engineering-South Valley University
Title: "Enhancement Performance of Solar Energy System by Using Advanced Techniques"
Eng. Ahmed Fathi Hussain 2022-----till now

2- Teaching Courses in Faculty of Engineering, El-Azhar University (Qena branch)
Teaching experience, since 2007 till 2011

B.Sc. Courses

- Theory of Machine .
- Electromagnetic Fields (1) & (2)
- Electrical Driving
- Electrical Materials

3-Faculty of Industrial Education Sohag University.
Teaching experience, since 2007 till 2011

B.Sc. Courses

- Industrial Electronics.
- Electrical Drives
- Fault Diagnostic
- Energy Economic
- Electronic Circuit
- Electronic Circuit (1) & (2)

EDUCATION

Bachelor degree in Electrical Engineering, Power and Machines section. With grade Very Good and Project Excellent.	Faculty of Engineering - Assiut Universi-ty, Egypt
Master of Science in Electrical Engineering. Entitles "Applications of Computer Using Neural Network on Studying Magnetizing Inrush Current in Transformers".	Faculty of Engineering - Assiut Universi-ty, Egypt
Doctorate of Philosophy (Ph. D.) In Electrical Eng. Entitles "Dynamic Simulation Of Multiconverter Power Systems At Normal And Abnormal Operating Conditions".	Faculty of Engineering - Assiut Universi-ty, Egypt

Attended Training Courses and Work Shopes

Date	Course Name	Name of training authority
١٩٨٧	Maintenance of Electrical Power Transformers	Russian Federation
1990	Electric Power and Maintenance systems	Assiut University
1993	Gaseous Switches and High Power Panels maintenance	France
November 1999	Instruction on the System Safety Rules	Abu Dhabi Transmission and Despatch Company (Transco)
September 2001	MAXIMO Maintenance & Operation	ADWEA Premises (UAE)
January 2003	MAXIMO Refresher Operation & Maintenance	ADWEA Premises (UAE)
May 2003	Transformer Restricted Earth Fault Protection	Abu Dhabi Transmission and Despatch Company (Transco)
October 2003	Busbar and Circuit Breaker Fail Protection	Abu Dhabi Transmission and Despatch Company (Transco)
2004	International Computer Driving License (ICDL)	ABU DHABI
2007	English Language Centre Program Level (2)	Assiut University
20١٨	Safety and healthy profession	Quality Assurance unit-Institute

2018	Quality Assurance	Quality Assurance unit-Institute
27-29 July 2019	Auto-Asses of Faculties and Institutes of High Education	National Authority Education Quality Assurance and approval
02-04 September 2019	Programs and Courses Description and Asses Bylaws for Faculties and Institutes of High Education	National Authority Education Quality Assurance and approval
25-26 September 2019	Teaching Strategies and Active Learning for Faculties and Institutes of High Education	National Authority Education Quality Assurance and approval

Conference Attendance as Presenter

1. December 15-17, 2015.	[17] International Middle East Power System Conference, MEPCON'15 Mansoura University, Egypt.
2. December 23-25, 2014	[16] International Middle East Power System Conference, MEPCON'14, Ain Shams University, Faculty of Eng., Cairo, Egypt.

International Book

"Performance Analysis of Grid-Connected Photovoltaic Power Systems"

- **Publisher:** LAP LAMBERT Academic Publishing (November 13, 2015)
- **Language:** English
- **ISBN-10:** 3659795542
- **ISBN-13:** 978-3659795541

You can see this book in the web site below
http://www.amazon.com/Performance-Analysis-Grid-Connected-Photovoltaic-Systems/dp/3659795542/ref=sr_1_1?s=books&ie=UTF8&qid=1458401730&sr=1-1

Journal Publications

[J1] M. Abdel-Salam, S. Abdel-Sattar, A. Sayed and H. Ali, "Symmetrical Component Analysis of Multi-Pulse Converter Systems", Electric Power Components and Systems, Vol. 34, No. 8, pp. 867-888, August 2006.

[J2] M. Abdel-Salam, S. Abdel-Sattar, A. Sayed and H. Ali, "Digital Symmetrical Analysis of AC/DC Interactions and Harmonic Mitigations for Multi-Pulse Converter Systems", Electric Power Components and Systems, Vol. 35, No. 3, pp. 299-318, March 2007.

[J3] Adel A. Elbaset, ***Hamdi Ali*** and Montaser Abd-El Sattar, Novel seven-parameter model for photovoltaic modules, Solar Energy Materials and Solar Cells 130 (2014) 442-455.

[J4] Adel A Elbaset, Hamdi Ali, and Montaser Abd El-Sattar "A Modified Perturb and Observe Algorithm for System using Buck-Boost Converter" Journal of Engineering Sciences, Assiut University, Faculty of Engineering, vol.43, no.3, May 2015, pp.344-362.

[J5] Adel A. Elbaset, ***Hamdi Ali*** and Montaser Abd El Sattar, and M. Khaled, "Implementation of a Modified Perturb and Observe MPPT Algorithm for PV System using an Embedded Microcontroller", IET Renewable Power Generation, 2015.

[J6] A.G.M.A.Aziz, Y.S.Mohammed, H.Ali, and A.A. Z.Diab " Core Loss Compensation of Sensorless Direct-Flux Oriented Induction Motor Drives Based on Adaptive Full-Order Observer" International Journal of Engineering and information Systems *(IJEAIS)*, vol.5, no.2, pp.82-92

[J7] A.G.M.A.Aziz, H.Ali, Y.S.Mohammed, and A.A.Z.Diab " Investigation of the Performance of Model Predictive control for Induction Motor Drives" Information Technology in Industry, vol.9, no.1, pp.1007-1015, 2021.

[J8] Montaser Abd El-Sattar, Ameena Al-Sumaiti, Hamdi Ali, and Ahmed A.Zaki Diab "Marine Predators Algorithm for Parameters Estimation of Photovoltaic Modules Considering Various Weather Conditions" Springer- Neural Computing Applications-March 2021.

[J9] Ahmed A.Zaki Diab, Hamdi Ali, and Montaser Abd El-Sattar "Accurate Extracted Parameters of PEMFC Model Based on Meta-heuristics Algorithms" El-Sevier -Energy Reports 7 (2021) 6854-6867 September 2021.

Conferences Publications

[C1] A. S. Abdallah and H. Ali, "Transient Simulation of Multiple Converter Systems As Influenced By Converter Pulse Number", Seventh International Middle-East Power Systems Conference MEPCON 2000, pp. 22-27, Vol. 1, 2000.

[C2] Adel A. Elbaset, *Hamdi Ali*, Montaser Abd El Sattar,"Design and Performance of Single-Phase Grid Inverter Photovoltaic System for Residential Applications with Maximum Power Point Tracking",18th International Middle-East Power System Conference (MEPCON'16) Helwan University, Egypt, December 27-29, 2016.

[C3] Adel A. Elbaset, M. S. Hassan, *Hamdi Ali* "Performance Analysis of Grid-Connected PV System" 18th International Middle-East Power System Conference (MEPCON'16) Helwan University, Egypt, December 27-29, 2016**.**

[C4] Adel A. Elbaset, ***Hamdi Ali*** and Montaser Abd El Sattar, "Modeling of Photovoltaic Module Based on Two-Diode Model", 17th International Middle-East Power System Conference (MEPCON'15) Mansoura University, Egypt, December 15-17, 2015.

[C5] Adel A. Elbaset, ***Hamdi Ali*** and Mohamed Morad, "Design and Implementation of a Microcontroller-based Non-inverting DC/DC Buck-boost Converter ", 17th International Middle-East Power System Conference (MEPCON'15) Mansoura University, Egypt, December 15-17, 2015.

[C6] Adel A. Elbaset, ***Hamdi Ali*** and Montaser Abd-El Sattar "Deduction of two-diode model parameter for photovoltaic system", 3rd International Conference on Energy Systems and Technologies ,16-19 Feb. 2015, Cairo, Egypt, ICEST' 2015

Courses taught

1. Ms Windows and Ms Office 2000, XP, 2003.
2. FORTRAN 77 &90
3. Matlab program
4. Electronics Course

5. Electric Power
6. Power Electronic
7. ICDL
8. Power System analysis
9. Electromagnetic Waves

Field of Interest

1. Clean Energy such as Wind Energy, Solar Energy, Fuel Cells, etc.
2. Power system software tools, modeling of distributed energy resources, and analysis of data
3. Power Electronics
4. Electric Power Quality
5. Power system
6. Applications of Control Theory to Energy Systems and Industrial Processes
7. Remote Control Over Internet
8. Automatic Control
9. Traveling.
10. Taking care of family, friends and others.
11. Providing social counseling and guidance.

Hamdi Ali
10-2-2023