Curriculum Vita

Consultant Prof. Dr. Eng.
Adel A. Elbaset Mohammed

- Professor in Electrical Eng. Dept., Faculty of Eng., Minia University, Elminia, Egypt

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AdeL.Soliman@mu.edu.eg Dr_AdeL72@yahoo.com

- **Scientific Reviewing Experience:**
  Member of scientific reviewing and examining committees in the field of Electrical Power Engineering and Electrical Machines, contributing to the evaluation of research quality and academic rigor.
- A dedicated and innovative **Lecturer, Consultant, Researcher, Coordinator, and Trainer** in Electrical Engineering, Renewable Energy, and Laboratory Accreditation, with over **30 years of academic and professional experience**.
- Certified **Consultant in Quality Management Systems, Renewable Energy Systems, and Electrical Installations** (License No. 1324/04).
- Over **10 years of experience as a Technical Assessor with the Egyptian Accreditation Council (EGAC)**, conducting full ISO/IEC 17025 assessments across electrical, high-voltage, metrology, renewable energy, and electronics laboratories.
- Proven expertise in **ISO/IEC 17025**, including documentation review, measurement uncertainty, internal auditing, method validation, proficiency testing, technical witnessing, and full accreditation audits.
- Extensive experience as a **Trainer, Lead Auditor, and Quality Consultant**, delivering advanced training in ISO 17025, QMS, risk management, uncertainty of measurement, and laboratory competence.
- **External Auditor** for the National Authority for Quality Assurance and Accreditation of Education (NAQAAE), evaluating higher education institutions and academic programs.
- **External Evaluator (Independent Expert)** for the European Education and Culture Executive Agency (EACEA – European Commission), contributing to proposal evaluations and consensus assessments under the CBHE programme.
- **External Reviewer – Research & Innovation Grants (Qatar)**, evaluating scientific and engineering proposals on QGrants, assessing feasibility, innovation, methodology, budget, and impact.
- Creative and enthusiastic university Professor with **25+ years of teaching** in Electrical Engineering, Power Systems, Power Electronics, Artificial Intelligence, and Computer Engineering.
- Strong record in **capacity building**, preparing faculties and laboratories for international and national accreditation (NAQAAE, ISO 17025).
- Experienced in organizing major conferences such as **MEPCON**, with **20 years of continuous participation** as a presenter in international engineering conferences.
- Excellent communication, analytical, and problem-solving skills, with a proven ability to manage teams, guide students, and lead technical and academic programs.
- More than **20 years of industrial and consulting experience**, working with engineering institutes, universities, private-sector companies, and accreditation bodies across Egypt and the region.

PERSONAL INFORMATION

Full Name: **Adel Abd Elbaset Mohammed (Adel A. Elbaset)**
Date of Birth: 24th of October, 1971.
Place of Birth: Egypt.
Nationality: Egyptian.
Marital Status: Married.
Current Job:

1. Professor in Electrical Eng. Dept., Faculty of Engineering, Heliopolis University, Cairo, Egypt.
2. Vice-Dean for Students affairs Faculty of Engineering, Heliopolis University.
3. Head of the Department of Electromechanics , Faculty of Engineering, Heliopolis University

Pervious Job:

- Professor in Electrical Eng. Dept., Faculty of Engineering, Minia University, Minia, Egypt.
- Dean of El-Arish High institute of Engineering and Technology.
- **Executive Manger, Power system Lab. , Faculty of Engineering, Minia University**
- **Head of the Department of Future High Institute for Engineering in Fayoum, Electrical Eng. Dept.**
- **Head of the Department of Science and Renewable Energy Engineering - Faculty of Post-graduate Studies for Advanced Science , Beni-Suef University**

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Present Address: Minia .
My Group: www.groups.yahoo.com/group/Dr_AdeL72
URL : http://works.bepress.com/dr_adel72/
ORCiD: https://orcid.org/0000-0002-0762-5180

The h-index, you can access to the following link = 23
https://www.scopus.com/authid/detail.uri?authorId=57449056200
https://scholar.google.com/citations?hl=en&user=-VcDcTcAAAAJ

EDUCATION

1978-1984	Primary school	Hew Primary School, Qena, Nag-Hamadi.
1984-1987	Preparatory school(Junior high school)	Hew High School, Qena, Nag-Hamadi.
1987-1990	Secondary School (High school)	High School of Dr. Yousef Ismail, Nag-Hamadi, Qena

University Degree

1990-1995	Bachelor degree in Electrical Engineering, Power and Machines section. With grade Very Good and Project Excellent. First one through four year "Top Student".	Faculty of Engineering - Minia University ElMinia, Egypt
30-5-2000	***Master of Science in Electrical Engineering.*** Entitles "Applications of Computer Using Neural Network on Studying Magnetizing Inrush Current in Transformers".	Faculty of Engineering - Minia University ELMinia, Egypt
22-8-2006	***Doctorate of Philosophy (Ph. D.) In Electrical Eng.*** Entitles "Study of Interconnecting Issues of Photovoltaic/Wind Hybrid System with Electric Utility Using Artificial Intelligence".	Faculty of Engineering - Minia University ELMinia, Egypt

JOB HISTORY

No	Position	Place	From - To
1.	Vice-Dean for Students affairs Faculty of Engineering,	Heliopolis University.	1-9-2021 until 31-8-2025
2.	Head of the Department of Electromechanics	Heliopolis University.	1-9-2021 until 31-8-2023
3.	Dean	El-Arish High institute of Engineering and Technology	1-9-2020 until 31-8-2021
4.	Head of the Department of Science and Renewable Energy Engineering	Faculty of Postgraduate Studies for Advanced Science , Beni-Suef Uni.	1-10-2014- 31-8-2015
5.	Executive Manger	Power system Lab. , Faculty of Eng.	15-3-2012 up to now
6.	Associate Professor	Electrical Engineering Department, Minia University, Minia, Egypt	29-11-2011 : 29-11-2016
7.	Coordinator of Mechatronics and Industrial Robots Program	Mechatronics and Industrial Robots Program, Minia University, Minia, Egypt.	15-9-2010 : 2-10-2011
8.	Visiting Assistant professor	Graduate School of Science and Technology Frontier Technology for Electrical Energy, Kumamoto University, Japan	1/04/2009 : 31/08/ 2009
9.	Post-Doctor Fellowship	Graduate School of Science and Technology Frontier Technology for Electrical Energy, Kumamoto University, Japan	27/04/2008: 28/2/ 2009
10.	Director Minia Web Site	Minia University, Minia, Egypt	10/4/2007: 10/4/2008
11.	Assistant Professor	Electrical Engineering Department, Minia University, Minia, Egypt.	25/9/2006 : 29/11/2011
12.	Assistant lecturer	Electrical Engineering Department, Minia University, Minia, Egypt.	30/5/2000 : 25/9/2006
13.	Demonstrator	Electrical Engineering Department, Minia University, Minia, Egypt.	4/11/1995 : 30/5/2000

PROFESSIONAL CAREER EXPERIENCE

Scientific Review and Examination Experience:

Served as a **member of review and examination committees** in the field of **Electrical Power Engineering and Electrical Machines**, including the assessment of postgraduate theses and specialized research outputs in accordance with approved academic standards.

External Auditor – NAQAAE (National Authority for Quality Assurance and Accreditation of Education), Egypt

Responsibilities & Achievements:

- Conducted comprehensive external audits and evaluations for higher education programs and institutions in alignment with **NAQAAE quality assurance and accreditation standards**.
- Reviewed academic curricula, teaching methodologies, assessment strategies, and learning outcomes to ensure compliance with national and international benchmarks.
- Evaluated institutional governance, faculty qualifications, research activities, and student support systems as part of the accreditation process.

- Prepared detailed audit reports highlighting strengths, areas for improvement, and recommendations to enhance educational quality and institutional performance.
- Participated in on-site visits, interviews, and evidence-based evaluations to support transparent and objective accreditation decisions.
- Contributed to improving quality assurance practices in Egyptian higher education through continuous monitoring and capacity-building feedback.

- **Work Experience Dates** 03/03/2026 – 30/05/2026

Position External Evaluator (Independent Expert)

European Education and Culture Executive Agency (EACEA) – European Commission

Main activities and responsibilities:

- Evaluated project proposals under the **ERASMUS 2027** Capacity Building in Higher Education (CBHE) programme remotely, in accordance with EU evaluation criteria.
- Prepared individual evaluation reports and participated in consensus group discussions, contributing to the drafting of consensus reports.
- Assessed methodology, quality of design, implementation plan, impact, and budget for each proposal.
- Complied with EU expert ethics, confidentiality rules, and the Expert Code of Conduct, providing objective, evidence-based recommendations to support funding decisions.

External Reviewer – Research & Innovation Grants (Qatar)

Evaluated grant proposals on the QGrants platform, assessing scientific quality, feasibility, innovation, methodology, budget, and impact. Produced structured evaluation reports and provided funding recommendations across engineering, energy, and technology domains. Complied with strict confidentiality and ethical standards.

Experience: 30 years

- Vice-Dean for Students affairs Faculty of Engineering, Heliopolis University. From 1-9-2021 until 31-8-2025
- Head of the Department of Electromechanics, Faculty of Engineering, Heliopolis From 1-9-2021 until 31-8-2025
- Dean of El-Arish High institute of Engineering and Technology. From 1-9-2020 Until 31-9-2021
- **Head of the Department of Science and Renewable Energy Engineering - Faculty of Post-graduate Studies for Advanced Science , Beni-Suef University. From 1-10-2014 : 31-8-2015**
- **Executive manger for Power system lab. From 15-3-2012 up to 1-9-2020**
- Professor of Electrical Power system, Electrical Engineering Department, Minia University, Minia, Egypt form 29-11-2016 till Now

- **Quality Management System.**

Establishment of Laboratory Management System Documentation and Document Control for ISO 17025-2017 and ISO 9001-2015

Training the flowing Courses: From Sept. 2014 up to now

1. Awareness & Understanding General Requirements For The Competence Of Testing Laboratories (ISO/IEC 17025:2017)

2. Risk Management Training Course
3. Estimation Of Uncertainty Of Measurements Training Course (ISO/IEC 17025:2017)
4. Internal Auditing Training Course
5. Quality Control Chart & Proficiency(PT) Training Course (ISO/IEC 17025:2017)
6. Six Sigma Training Course

Coordinator of Mechatronics and Industrial Robots Program 15 -9-2010 : 2-10-2011
Minia University, Minia, Egypt
Coordinator of National Academic Reference Standard for Engineering (NARS)

Visiting Assistant Professor. 1st ,**April 2009 – 31th , Aug. 2009.**
Graduate School of Science and Technology , Frontier Technology for Electrical Energy,
Kumamoto University, Japan

Post-Doctor Fellowship. **26, April 2008- 25, Feb. 2009**
Graduate School of Science and Technology Frontier Technology for Electrical Energy,
Kumamoto University, Japan

Minia University Web site **10, April 2006- 9, April 2007**
Director of Minia University Web site (www.minia.edu.eg)

Teaching experience, since Sept 2006 …….. Till now

- **Graduate School of Science and Technology, Kumamoto University, Japan** **1st, April 2009 – 1th , Aug. 2009**
  - Advanced electric Power Frontier I

- **Faculty of Engineering - Minia University** **25, Sept. 2006 - Till the present**

A- B.Sc Courses
- Renewable Energy source.
- Industrial Electronics.
- Electrical Power and Machines.
- Computer Networks.
- Elective Course (Artificial Neural Network in Electrical Engineering).
- Electronics

B- Graduate Courses
- Industrial Electronics.
- Electrical Power (2).
- Elective Course (Computer applications in electrical power network).
- Elective Course (Neural Network Applications in Power System).
- Electrical Power and Machines.

C- B. Sc Projects
- Design of 220kV and 500kV Over head transmission line.
- Design of Photovoltaic energy system interconnected with utility grid to feed certain load.
- Design and Implementation Automatic Solar Radiation Tracker system for Photovoltaic power System
- Design optimization and Control of wind and PV interconnected with grid

- **Faculty of Computers and Information-Minia University**

Teaching experience, since Sept. till now

A- B.Sc Courses

- Electronics.
- Electronic Commerce (E-Commerce).

B- B. Sc Projects

- Design a FCI web site

- **Faculty of Eng., Al Azhar University (Qena branch)**

A- B.Sc Courses

- selective Course (Renewable Energy Course) power and machines section.
- Industrial Electronics.
- Electrical Drives.

- **High Institute of Energy - South Valley University**

A- B.Sc Courses

- Computer Control (1).
- Computer Control (2).
- Industrial Electronics.
- Alternator.

B. Sc Projects

1. Design of 220kV and 500kV over head transmission line.

- **Future high institute of engineering in Fayoum**

B.Sc Courses

- Computer Control (1).
- Industrial Electronics.
- Power electronic.
- Power System
- Measurement and Lab (1)

Taught the following training courses at engineering faculties, institutes, factories, companies, and the Arab Training Foundation:

1. Classical Control Courses and Control Systems
2. Design of Electrical Installations for Residential, Industrial, and Commercial Buildings
3. Electrical Wiring and Power Cable Installations in Distribution Networks
4. Solar Energy and Its Various Practical Applications
5. Testing and Fault Diagnosis of Power Cables up to 380 kV
6. Electrical Power Systems Protection Engineering
7. Energy Conservation and Power Factor Improvement in Power Stations
8. Design of Electrical Distribution Networks
9. Electric Power Systems and Distribution Networks
10. Engineering Work Contracts for Electrical Installations
11. Testing and Maintenance of Electrical Transformers
12. Safety of Power Transmission Lines
13. Rationalization of Electrical Energy Consumption
14. Maintenance of Electrical Networks
15. Safety Instructions and Protection of Electrical Equipment
16. Electrical Machines

17. Protection and Maintenance of Electrical Motors
18. Transformers and Generators – Protection, Testing, and Maintenance
19. Testing and Maintenance of Power Transformers
20. Hazards Associated with Electrical Installations
21. General Laboratory Safety
22. AutoCAD 2016
23. Awareness on Quality Systems and Concepts, and Requirements of ISO/IEC 17025:2017
24. General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025:2017)
25. Preparation, Creation, and Issuing of Laboratory Quality Management System Documentation according to ISO/IEC 17025:2017
26. Uncertainty of Measurement Calculations according to ISO/IEC 17025:2017

Faculty of Engineering - Minia University **2002-2006**

Assistant Lecture

- Training +25 years for many courses in Electrical Engineering Department. For Examples (Power system, Computer Control, Industrial Electronics, Machines, and so on)
- Working Over than 1000 hours in student laboratory for first, second, third and fourth years.
- Attending lectures given to demonstratives, assistant lecturers to develop my teaching skills.
- Planning and facilitating conferences at the Faculty (Reception and Organization Committee).
- Representing the Faculty in many workshops and conferences.
- Attending Faculty seminars on master degree and Ph. Degree in the field of Electrical Eng.

Ph. D. Study

Specialization: Electrical Power Engineering

Title of Thesis: "Study of Interconnecting Issues of Photovoltaic/Wind Hybrid System with Electric Utility Using Artificial Intelligence".

- This dissertation has been presented a complete design and simulation of a PV/WES HEPS to be interconnected with Electric utility, EU. The design proposed of PV/WES HEPS has been based on energy balance and minimum price of generated kilo watt hour (kWh) for the system under study. The design based on maximum power point tracking for PV and WES by using an artificial intelligence technique. The design methodology has been applied on Zafarâna site in Egypt. Many wind turbine generators (WTG) and PV modules type have been introduced to choose the best type and the penetration ratio for WTG and PV modules through a computer program. The computer program can completely design the hybrid system and determine the hourly system parameters as power flow, DC output voltage from PV module and reliability of the system.
- This dissertation has been presented also a possible circuit topology and the controller design for a grid-connected DC-AC power converter. Artificial intelligence techniques, such as fuzzy logic and neural network are recently showing a lot of promise in the application of PV/WES HEPS to be interconnects with EU. In this dissertation we make study and describe not only a control strategy for interconnection of hybrid system with electric utility accompanied with or without battery storage using artificial intelligence techniques but also a fuzzy logic technique to calculate and assess the reliability index for each HEPS configuration under study.
- The dissertation contains eight chapters.
- 10 papers extracted from this dissertation.

UNESCO CAIRO OFFICE

A Certified and Authorized to Test All ICDL Modules.

AUC Off-Campus, Elmanara Center- El-minia Branch

A Certified Computer Instructor at AUC

- Teaching 4000 hours in Windows, Ms-Office, Visual Basic, Matlab, AutoCAD 2D and 3D.
- Teaching ICDL modules for Adults and students.

Vice- Manger for Elmanara Academy International **March 2006- April 2007**

Faculty of Engineering - Minia University **2000-1997**

Demonstrator

- Training over than 5000 hours for many courses in Electrical Engineering Department. For Examples (Power system, Computer Control, Industrial Electronics, Machines, and so on)
- Working Over than 480 hours in student laboratory for first, second, third and fourth years.
- Attending lectures given to demonstratives, assistant lecturers to develop my teaching skills.
- Planning and facilitating conferences at the Faculty (Reception and Organization Committee).
- Representing the Faculty in many workshops and conferences.
- Attending Faculty seminars on master degree and Ph. Degree in the field of Electrical Eng.

Master Study

Specialization: Electrical Power Engineering

Title of Thesis: "Applications of Computer Using Neural Network on Studying Magnetizing Inrush Current in Transformers".

- This thesis presents a complete analysis of M. I. C. New mathematical models based upon mutual coupling have been developed for the transformer to investigate the M. I. C phenomenon. New computer programs have been proposed to execute these mathematical models. The analysis has been made on the transformer at no load and on the transformer udder different load.
- In this thesis, fault current calculations have been carried out for different types of fault occur on the transformer. The values and wave shapes of the short circuit currents have been determined under different types of short circuit for no-load transformer and for transformer under load. Effect of the transformer winding concertinos on the values and wave shapes of short circuit currents have been taken into consideration.
- The discrimination between the M. I. C. and fault currents have been made based on the harmonic component of each wave shapes. Feed forward neural network, FFNN, algorithm has been employed for the recognition of wave shape of fault current and M. I. C. The computational requirements for the (FFNN) implementation are very large but it is more reliable than the schemes based on detection of only one harmonic (second or fifth).

Faculty of Engineering - Minia University **Feb. 1998- Dec. 2000**

Technician Engineer

- Maintenance more than 300 computers in the university.

International British Institute (IBI) - Minia government. **Sept. 1996 - Dec. 2000**

Director and computer instructor.

- Teaching 1700 hours in Windows, Ms-Office, Visual Basic, Matlab, AutoCAD 2D and 3D, FORTRAN 77 &90
- Conducting interviews and admission tests at the IBI.

Member, Egyptian Engineering Syndicate. **May 1995 till Now**

Member, Minia University Faculties club. **Nov. 1995 till Now**

Refereeing for International Journals

1. Journal of time series analysis, UK (published by John Wiley & Sons).
2. Journal of Statistical Computation and Simulation (published by Taylor & Francis, USA).

Attended the **free Ramadan evening sessions** on various quality management topics, delivered during the blessed nights of Ramadan 1441 AH as part of the initiative **"Learn Quality from Home"**, launched by the *Quality Experts Center for Consultancy, Training, and Quality Systems* as a community-service effort to promote quality culture across Yemen and the Arab world.

The sessions covered the following topics:

1. The Road to Quality
2. Principles and Dimensions of Healthcare Quality
3. Risk Management System according to ISO 31000:2018
4. Occupational Health and Safety Management System according to ISO 45001:2018
5. How to Lead Institutional Excellence in Your Organization
6. Standards Development… Preparation and Updating
7. Six Sigma Methodology and Its Applications
8. Knowledge Management System Requirements according to ISO 30401:2018
9. Laboratory Competence Requirements according to ISO/IEC 17025:2017
10. Information Security Management System Requirements according to ISO/IEC 27001:2013
11. Quality Management System Requirements according to ISO 9001:2015
12. Anti-Bribery Management System Requirements according to ISO 37001:2016
13. Sustainable Cities Development System Requirements according to ISO 37120:2018
14. Medical Laboratory Competence Requirements according to ISO 15189:2012
15. Pathway to International Recognition of Educational Services Quality according to ISO 21001:2018
16. Environmental Management System Requirements according to ISO 14001:2015
17. Food Safety Management System Requirements according to ISO 22000:2018
18. Energy Management System Requirements according to ISO 50001:2018
19. Business Continuity Management System Requirements according to ISO 22301:2019
20. Internal Auditing for Quality Systems according to ISO 19011:2018
21. Stages of Establishing and Qualifying Organizations to Implement ISO 9001:2015 Quality Management Systems

These sessions were delivered by a group of leading quality experts from across the Arab world (Egypt, Yemen, Saudi Arabia, Libya, Iraq, and others), and were attended by approximately **550 participants** from Yemen and various Arab countries.

Accreditation (External Assessment NAQAA)

#	University	Faculty	Date
1.	BUC – Badr University in Cairo	Faculty of Engineering	2-4 December 2023
2.	Pharos University	Faculty of Engineering	18-20 February 2024
3.	Al-Azhar university	Faculty of Engineering , Qena Brach	21-23 April 2024
4	Giza Higher Institute of Engineering and Technology – Tamouh		30 Nov. to 2 Dec. 2025

Certification & Accreditation (Final audit & Assessment & Technical Assessor (ISO 17025)

#	Company	Location	Date
1.	El Sewedy Special Cables Laboratory - El Sewedy Special Cables Company	3rd Industrial Zone – 10th of Ramadan City – Sharkia Governorate - Egypt	2025,2026
2.	New & Renewable Energy Authority (NREA)	Dr. Ibrahim Aboulnaga st., Ext. of Abbas El Akkad st., El- Zohor District, Nasr City, Cairo, Egypt	15/11/2022 and 16-11-2022
3.	Benha Electronics Company	Benha Electronics Company	2024-7-28
4.	United Industries -El Sewedy Laboratory	10th of Ramadan city, industrial zone A4, Sharqia, Egypt	2015, 2018, 2022
5.	Mohamed Ahmed Daoud	Fourth industrial zone–Part no. C1, C2, C3 and C4, 6th	2016

	for investment	October city ,Egypt	2017
6.	El Sewedy Transformers Laboratories	10th of Ramadan city, industrial Zone A4, Sharqia, Egypt	2016
7.	Polytechnique Metrology Centre (PMC)	6th October City, Industrial Zone 2, Giza- Egypt	2015 2018
8.	El Sewedy Electrometer	2nd Industrial Zone, 6th of October City, Giza, Egypt	2015 2016 2018
9.	Elsewedy Cables Laboratory Elsewedy Cables A3	10 th of ramadan city, industrial zone A3	2016 2018 2019
10.	Elsewedy Cables Laboratory A1	Elsewedy Cables Egypt Address: 10 th of ramadan city, industrial zone A1	2016 2017 2019
11.	High Voltage Testing Laboratory	Egyptian Company for Manufacturing Electrical Insulators (ECMEI) 10th of Ramadan City Area (1/4) - South (A-1), Cairo, Egypt	2016
12.	General Department for Testing of Engineering Products Laboratories Egyptian Organization for Standardization and Quality (EOS)	16 Tadreeb El – modarrebeen st., Ameriya - Cairo - Egypt	2017
13.	EGETRONIC Quality Control Laboratory El Asher for Electronic Industries	Green Land Complex – Factory No. 409-412, 10th of Ramadan City, Sharqia, Egypt	2017 2018
14.	General Administration of Mechanical and Electrical Goods Laboratories General Organization for Export & Import Control (GOEIC) –	Cairo Airport Branch Cairo Airport – Cargo Village, Cairo, Egypt	2017

Activities in the accreditation

Activities in the accreditation	
1	Experience in quality management systems (as trainer , consultant , Auditor, Lead and technical assessor). Experience in the field of electrical and Renewable energy Lab Accreditation Technical assessor at Egyptian Accreditation Council (EGAC) on ISO 17025 Experience in Quality Management systems , ISO 21001:2018 Experience in Standardising Management Systems for Educational Organizations –implications of ISO 21001 for European Higher Education
2	Consultancy Preparing great number of Egyptian companies to get ISO/IEC Certificates such as : 1. EgyTrfo Group Company , Plot 33, 4th Industrial Zone, Badr City - Cairo - Egypt. 2. Petroleum Pipelines Co. - PPC, Mostorod, Kaliobeya, Egypt 3. Development of the Refrigeration **and air conditioning laboratory and new and renewable**

	energy applications- Faculty of Industrial Education, Mechanical Dept., –Sohag University 4. The Development of Central Laboratory and Rehabilitation for Accreditation - Faculty of Agriculture, Alexandria University 5. Soil, Water and Plant Analysis Laboratory , Faculty of Agriculture, Tanta University 6. Environmental Geophysics Lab (ZEGL) and qualifying it for accreditation in accordance with the specifications of ISO 17025, Department of Geology at Zagazig University 7. Accreditation of Soil Mechanics and foundation Engineering Laboratory, Faculty of Engineering, Zagazig University 8. Development of Micro Analysis Lab for water research to be qualified for accreditation, Faculty of science, University of Damietta 9. Electronics & Nano Devices laboratory, Physics department, Faculty of science, South Valley University 10. Cell and Molecular Physiology Research Center, Faculty of Veterinary Medicine , , South Valley University 11. Soil Mechanics and Foundations Laboratory, Faculty of Engineering , Assuit University
3	Internal Auditing and pre assessment 1. United Industries -El Sewedy Laboratory 2. Mohamed Ahmed Daoud for investment 3. El Sewedy Transformers Laboratories 4. Polytechnique Metrology Centre (PMC) 5. El Sewedy Electrometer 6. Elsewedy Cables Laboratory 7. Elsewedy Cables A3 8. Elsewedy Cables Laboratory A1 9. High Voltage Testing Laboratory 10. General Department for Testing of Engineering Products Laboratories 11. Egyptian Organization for Standardization and Quality (EOS) 12. EGETRONIC Quality Control Laboratory 13. El Asher for Electronic Industries 14. General Administration of Mechanical and Electrical Goods Laboratories **15.** General Organization for Export & Import Control (GOEIC) –

Attended Training Courses, Faculty and Leadership Development project (FLDP)

Date	Course Name	Location
20-21 August 2025	Leadership: A Transformational Path	Heliopolis University
11 August 2025	A Holistic Approach, Why ESD?	Heliopolis University
5-6 August 2025	Who am I? (Feeling, Thoughts and actions)	Heliopolis University
15 July 2025	Social Entrepreneurship, ESD.TL.4	Heliopolis University
9-10 Feb. 2025	Leadership for Sustainability Workshop	Heliopolis University
2-3 Sept. 2024	ICT in Education (HU systems, AI, MS, and social media) code ESD.AC.3	Heliopolis University
26-27 August 2024	Project Grant Writing & Management Code ESD.TL.5	Heliopolis University
19-20 August 2024	How to Maintain Student Engagement? (Educational Psychology & Innovative Teaching Methods) code ESD.AC.1	Heliopolis University
17 July to 3 August 2022	أساليب التفكير والدراسات المستقبليه Methods of thinking and future studies	اكاديمية ناصر العسكريه العليا Nasser Higher Military Academy
2022-6-19 حتي 2022-7-5	إدارة الازمات والتفاوض رقم (63) Crisis Management and Negotiation No. (63)	اكاديمية ناصر العسكريه العليا Nasser Higher Military Academy

29-5-2022 حتي 15-6-2022	الدراسات الإستراتيجية والامن القومي رقم (80) Strategic Studies and National Security No. (80)	اكاديمية ناصر العسكريه العليا Nasser Higher Military Academy
27-28 فبراير و1-3-2022	التقويم الذاتي لمؤسسات التعليم العالي Self-evaluation of higher education institutions	National Authority for Quality Assurance and Accreditation in cooperation with Heliopolis University – Faculty of Pharmacy
21-22 من فبراير 2022	نظم الامتحانات Examination systems	National Authority for Quality Assurance and Accreditation in cooperation with Heliopolis University – Faculty of Pharmacy
14-15 من فبراير 2022	إستراتيجيات التدريس	National Authority for Quality Assurance and Accreditation in cooperation with Heliopolis University – Faculty of Pharmacy
7-8 من فبراير 2022	التخطيط الاستراتيجي	National Authority for Quality Assurance and Accreditation in cooperation with Heliopolis University – Faculty of Pharmacy
8 -9 يناير 2014	شهادة التقويم الذاتي لمؤسسات التعليم العالي	National Authority for Quality Assurance and Accreditation
10-11 يناير 2014	المراجعه الخارجية لمؤسسات التعليم العالي	National Authority for Quality Assurance and Accreditation
12-13 ديسمبر 2013	توصيف البرامج وخرائط المنهج لمؤسسات التعليم العالي	National Authority for Quality Assurance and Accreditation
14 -15 ديسمبر 2013	التعليم الفعال لمؤسسات التعليم العالي	National Authority for Quality Assurance and Accreditation
Oct. 30 : Nov. 4 , 2010	Strategies of International Arbitration	Aladala Center for International Arbitration
Feb. 2010	Organizing of Scientific Conference (C3)	Minia University, Computer Center
Jan. 2010	Scientific Publication (R1)	Minia University, Computer Center
Jan. 2010	Management of Research Team (R2)	Minia University, Computer Center
Jan. 2010	Effective presentation Skills(C2)	Minia University, Computer Center
March 2007	Information and communications Technology Project Scopus Database Science Direct Database, ASP, IEEE Journals, ASME and other database**.**	Minia University, Computer Center
Nov. 2006	How to Use Technology in Teaching (T3)	Minia University, Computer Center
June 2006	Effective Teaching (T1)	Minia University, Computer Center
May 2006	Quality Assurance (T12)	Minia University, Computer Center
Aug. 2005	Making Decisions and Solving Problems (L3)	Minia University,

		Computer Center
Aug. 2005	Ethics of profession	Minia University, Computer Center
July 2005	Development of Thinking Skills (P1)	Minia University, Computer Center
Jan. 2005	Development of Communication Effective Skills	Minia University, Computer Center
Nov. 2004	Development of methods of Scientific Research (T4)	Minia University, Computer Center
May 2001	Training Course for preparing leaders	Helwan Campus
Sept. 2000	German language course in Assuit for 400 Hours. I reached to Grundstufe III	Assuit University
May 2001	German language course in Goethe Institute in Cairo for 400 Hours and I reached for Mittelstufe III.	Goethe Institute
Feb, 1998	First Training Course in teaching technology, Faculty of Education,	Minia University

Administrative activities and applied:

1. Member of the Subcommittee for Mechatronics and Industrial Robots Program, Minia University, Minia, Egypt.
2. Pioneer Rebirth family, Minia University, Faculty of Eng.,
3. Chairman of the Family Social, Minia University, Faculty of Eng.,
4. Member of the Management Committee of crises and disasters in college.
5. Member of the Department of Electrical Engineering from September 2006 till now.
6. Coordinator of National Academic Reference Standard for Engineering (NARS).
7. Member of the laboratories emanating from the College Board from October 2010.
8. Member of the Advisory Unit in the faculty.
9. Member of the committee preparing the tables of academic department and college.
10. Contribute to the work of the Examinations and Controls since obtaining his doctorate until now.
11. Contribute to the development regulations and the curricula of undergraduate and graduate studies department.
12. Supervision of scientific trips for students of Bachelor of Electrical Engineering Department to visit the factories.

Scientific and engineering consulting

1. Contribute through the Advisory Unit faculty in some engineering consultancy for residential housing in Minia.
2. Scientific tight for some international scientific journals and conferences. Such as
   - IET Renewable energy journal

- Journal of Electrical and Electronics Engineering Research
- MEPCON Conference

Conference Attendance as Presenter	
1. December 17-19, 2019.	[21] International Middle East Power System Conference, MEPCON'19 Tanta University, Egypt, December 17-19, 2019.
2. December 18-20, 2018.	[20] International Middle East Power System Conference, MEPCON'18 Cairo University, Egypt, December 18-20, 2018.
3. December 19-21, 2017.	[19] International Middle East Power System Conference, MEPCON'17 Menoufia University, Egypt, December 19-21, 2017.
4. December 27-29, 2016.	[18] International Middle East Power System Conference, MEPCON'16 Helwan University, Egypt, December 27-29, 2016.
5. December 15-17, 2015.	[17] International Middle East Power System Conference, MEPCON'15 Mansoura University, Egypt, December 15-17, 2015.
6. December 23-25, 2014	[16] International Middle East Power System Conference, MEPCON'14, Ain Shams University, Faculty of Eng., Cairo, Egypt.
7. March 25-27, 2014.	ICGE 2014 – The First International Conference on Green Energy, in Sfax, Tunisia
8. December 20-23, 2012	[14] International Middle East Power System Conference, MEPCON'2012, Alex University, Faculty of Eng., Alex, Egypt.
9. 1-2 May 2010	International Engineering Conference on Hot Arid regions (IECHAR), Saudi Arabia, King Faisal University, College of Engineering
10. December 20-23, 2009	[13] International Middle East Power System Conference, MEPCON'2009, Assuit University, Faculty of Eng., Assuit, Egypt.
11. July 6-10, 2008	The International Conference on Electrical Engineering , Japan, Okinawa
12. March 12-15, 2008	[12] International Middle East Power System Conference, MEPCON'2008, South Valley University, Faculty of Eng., Aswan, Egypt.
13. April 12 - 14, 2007	Al-Azhar Engineering Ninth International Conference. Faculty of Engineering, Al-Azhar University
14. Dec. 9-21, 2006	The Eleventh International Middle East Power System Conference, MEPCON'2006, Minia University, Faculty of Eng., Minia, Egypt.
15. Dec. 13-14, 2005	The Tenth International Middle East Power System Conference, MEPCON'2005, Suez Canal University, Faculty of Eng., Port Said, Egypt.
16. Nov. 21-23, 2005	Sixth Regional Conference of the National Committees of CIGRE in Arab countries, Cairo Marriott Hotel, Egypt.
17. April 3-4, 2005	3rd Minia International Conference for Advanced Trends in Engineering (MICATE'2005), Minia university, Faculty of Eng., Minia, Egypt.
18. Dec. 24 - 27, 2004	Al-Azhar Engineering Eighth International Conference. Faculty of Engineering, Al-Azhar University.
19. Sept. 5-7, 2004	International Conference on Electrical, Electronic and Computer Engineering, ICEEC'04, Cairo, Egypt.
20. Dec. 16-18, 2003	The Ninth International Middle East Power System Conference, MEPCON'2003, Minoufiya University, Faculty of Eng., Shebin El-Kom, Egypt.
21. March 17-20, 2002	2nd Minia International Conference for Advanced Trends in Engineering (MICATE'2002), Minia university, Faculty of Eng., Egypt.
22. March 14-17, 1999	1st Minia International Conference for Advanced Trends in Engineering (MICATE'99), Minia university, Faculty of Eng., Egypt.

Publishing Book

https://www.goodreads.com/author/show/20898293.Adel_A_Elbaset

[1] Heba A. Mahmoud , **Adel A. Elbaset** , Montaser Abdelsattar " Protection of Grid-Connected Wind Energy Systems Case Studies, Strategies, and Techniques from the Egyptian Power System" ",Book © under publishing in Springer Nature Switzerland AG. ISBN 978-3-031-83198-0 , , April 2025

[2] Amal M. Abd El- Hameid**, Adel A. Elbaset** , Mohamed Ebeed , Montaser Abdelsattar , "Enhancement of Grid-Connected Photovoltaic Systems Using Artificial Intelligence" , Book © under publishing in Springer Nature Switzerland AG. ISBN **978-3031296918, June 2023**

[3] Ahmed S. Abbas, Adel Ali Mohamed Abou El-Ela , Ragab A. El-Sehiemy, Adel A. Elbaset, "Power Quality Enhancement using Artificial Intelligence Techniques", , Book ©CRC Press is an imprint of Taylor & Francis Group, LLC. ISBN: 9781032439228 (hbk)
DOI https://doi.org/10.1201/9781003369448

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[5] Mohammed Morad, Mohamed A. E. I. Nayel, Hossam E. M. S. Abbas, **Adel A. Elbaset,** Ahmed I. A. Galal, "Planning And Operation Assessment Of A Microgrid**", Publishing house: LAP LAMBERT Academic Publishing** ISBN-13: 978-620-3-58244-4**, ISBN-10:6203582441, EAN:9786203582444, 2021**
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[6] Hany A. Hamed, E. E. EL-Kholy, **Adel A. Elbaset "Design, and Implementation of Multilevel Grid-Connected Converters, LAP LAMBERT Academic Publishing (2021-04-06), ISBN-13:978-620-3-58212-3,ISBN-10:6203582123,EAN: 9786203582123**
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[7] Adel A. Elbaset,, **Ata**, Salah, "Hybrid Renewable Energy Systems for Remote Telecommunication Stations" " © 2021 Springer Nature Switzerland AG. ISBN: 9783030663438
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[10] Adel A. Elbaset, et. al "Performance Analysis of Photovoltaic Systems with Energy Storage Systems" Book, eBook ISBN 978-3-030-20896-7, DOI 10.1007/978-3-030-20896-7, Publisher Springer International Publishing
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Journal Publications

Paper 2025

[J1] D. C. Riawan, H. Suryoatmojo, A. M. Ravi, and **Adel A. Elbaset**, "Implementation of Adaptive Hysteresis-Band Current Control for Bidirectional H-Bridge DC-DC Converter," Journal of Robotics and Control (JRC), vol. 6, no. 6, pp. 1–12, 2025, doi: 10.18196/jrc.v6i6.27096 .

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[J3] Loula A. Shouman, **Adel A. Elbaset**, Dalia A. Fadel1, Ade E. SSadat "Optimization Study for a Stand-alone Reverse Osmosis (RO) Desalination Plant" , Arab J. Nucl. Sci. Appl., Vol. 58, 2, 44-52 (2025)

[J4] Ghada Wahby , Ibrahim I. M. Manhrawy, Belgacem Bouallegue, Ahmed A. M. El-Gaafary, and **Adel A. Elbaset** "Enhancing Conventional Power Grids: Analyzing the Impact of Renewable Distributed Generation Integration Using PSO in the 118-Bus IEEE System", International Journal of Energy Research Volume 2025, Article ID 3601747, 13 pages
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[J6] Hazem Ramzey, Mahmoud Badawy, **Adel A. Elbaset**, "Crude oil industry remote monitoring and management based on Industrial Internet of things and edge computing integration: A comprehensive survey", Results in Engineering 24 (2024) 103034

[J7] Ali H. Kasem Alaboudy, Heba A. Mahmoud, **Adel A. Elbaset,** Montaser Abdelsattar," LVRT Capability Enhancement of Grid- Connected DFIG Wind Turbines using Series Resistor ", International Journal for Holistic Research, Vol. 1, No. 1. June 2024.
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[J11] Ahmed S. Adail, Yasser M. Ammar, **Adel A. Elbaset**& Sayed EL. Araby**,"** Analytical study and real simulation for improving the safety of ageing nuclear facility using UPFC", Scientific Reports,(2024) 14:210
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[J12] Ahmed H. Ali, Raafat A. El-Kammar, Hesham F. A. Hamed**,** Adel A. Elbaset, Aya Hossam**, "** Enhancing the output power of solar cell system using artificial intelligence algorithms", **International Journal of Power Electronics and Drive Systems (IJPEDS)** Vol. 15, No. 1, March 2024, pp. 487~497, ISSN: 2088-8694.
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[J16] Hazem Ramzey, Mahmoud Badawy , Mostafa Elhosseini and **Adel A. Elbaset** "I2OT-EC: A Framework for Smart Real-Time Monitoring and Controlling Crude Oil Production Exploiting IIOT and Edge Computing" Energies, 2023

[J17] Ali H. Kasem Alaboudy, Heba A. Mahmoud, **Adel A. Elbaset**, Montaser Abdelsattar "Improved LVRT Techniques for Grid-Connected DFIG Wind Turbines: A Technical Review", SVU-International Journal of Engineering Sciences and Applications (2023) 4(2): 7-23 Print ISSN 2785-9967 Online ISSN 2735-4571 DOI 10.21608/SVUSRC.2023.180183.1089

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Paper 2022

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[J24] Saad A. Mohamed Abdelwahab, Adel A. Elbaset, Fahd Yousef, Walid S.E. Abdellatif "Performance Enhancement of PV Grid Connected Systems with Different Fault Conditions", International Journal on Electrical Engineering and Informatics - Volume 13, Number 4, December 2021

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[J32] **Adel A.Elbaset**, ShimaaBarakat, HaithamIbrahim, "Multi-Objective Optimization of Grid-Connected PV-Wind Hybrid System Considering Reliability, Cost, and Environmental Aspects", Sustainable Cities and Society, 2020
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[C37] ***Adel A. Elbaset,*** and M.S. Hassan, "Design and implement of 100 kW rooftop grid connected PV system. Faculty of Engineering at El-Minya as a case study", 3rd International Conference on Energy Systems and Technologies ,16-19 Feb. 2015, Cairo, Egypt, ICEST' 2015 **(Paper #34C)**

Paper 2014 to here

[C38] Adel A. Elbaset,Ahmed Emad -Eldin Hussein,Ramadan Mahmoud Mostafa, "Design and Implement of DC/DC Converters for Photovoltaic Systems" 16th International Middle East Power Systems Conference (MEPCON'14) 23-25 December 2014, Cairo, Egypt. (**Paper #35C)**

C39] H. Suryoatmojo, A. A. Elbaset, F. A. Pamuji, D. C. Riawan, Nursalim, M. Abdillah "Optimal Sizing and Control Strategy of Hybrid PV-Diesel-Battery Systems for Isolated Island", 5th International

Symposium on Advanced Control of Industrial Processes, May 28-30, 2014, Hiroshima, JAPAN (**Paper #36C)**

[C40] Adel A. Elbaset, "Smoothing of Grid-connected Wind-Diesel Power Output Using Energy Capacitor System " Fourteenth International Middle East Power Systems Conference Alex, Egypt, December 21-23, 2012 (MEPCON'14). (**Paper #37C)**

[C41] Omar Hazem Mohammed, Yassine Amirat, Mohamed Benbouzid, ***Adel A. Elbaset***, "Optimal design of a PV/fuel cell hybrid power system for the city of Brest in France", ICGE 2014 , the First International Conference on Green Energy, to be held in Sfax, Tunisia, from March 25-27, 2014. Paper 38

DOI: 10.1109/ICGE.2014.6835408 https://ieeexplore.ieee.org/document/6835408

Paper 2010

[C42] ***Adel A. Elbaset,*** "Modeling and Analysis of a PEM Fuel cell for Electrical Applications " Fourteenth International Middle East Power Systems Conference Cairo, Egypt, December 19-21, 2010 (MEPCON'10). (**Paper #39C)**

[C43] A.A. Hassan et. al. " A neural network based speed control of a linear induction motor drive" IEEE TENCON 2010, Fukuoka International Congress Center, Fukuoka, Japan, November 21-24 2010, 978-1-4244-6888-1/10/$26.00 ©2010 IEEE (**Paper #40C)**

[C44] Evans N. Chogumaira, Takashi Hiyama, **Adel A. Elbaset,** "Short-term load forecasting using dynamic neural networks" 2010 Asia-Pacific Power and Energy Engineering Conference, (APPEEC 2010) , ISBN: 978-1-4244-4812-8. (**Paper #41C)**

[C45] ***Adel A. Elbaset*** and Omar H. Abdalla "Modeling and Control of a Wind Farm and Electrolyzer System Connected to an Electrical Gird" International Engineering Conference on Hot Arid regions (IECHAR), Saudi Arabia, King Faisal University, College of Engineering , IECHAR 2010 Conference, 1-2 May 2010 (**Paper #42C)**

Paper 2009

[C46] ***Adel A. Elbaset*** ," Modeling and Computer Simulation of Fault Calculations for Transmission Line", 13th International Middle East Power System Conference, MEPCON'2009, Assuit University, Faculty of Eng., Assuit, Egypt, Vol. I, Dec. 20-23, 2009 (**Paper #43C)**

[C47] ***Adel A. Elbaset*** , Takashi Hiyama, Friedhelm Gehrmann "Computer-aided Design and Control Strategy of PV/FC Hybrid Power System ", The 13 International Middle East Power System Con-

ference, MEPCON'2009, Assuit University, Faculty of Eng., Assuit, Egypt, Vol. I, Dec. 20-23, 2009 (**Paper #44C)**

Paper 2008

[C48] ***Adel A. Elbaset***, Takashi Hiyama, "Optimal Operation of Electric Hybrid WES/BS/DG System By Neural Network", The International Conference on Electrical Engineering 2008, July 6-10, 2008, OKINAWA, JAPAN

[C49] Heri Suryoatmojo, ***Adel A. Elbaset*** **,** Takashi Hiyama, "Impact of Reliability and Co2 Emission on Wind-Diesel-Battery System Using Genetic algorithms", the 2nd International Student Conference on Advanced Science and Technology, ICAST, Beijing 2008, December 22-23,2008, Peking University, Beijing, China

[C50] Anuar Bin Mohamad, ***Adel A. Elbaset*** **,** Takashi Hiyama, " Analysis of Power Flow Solution for Outage Studies", the 2nd International Student Conference on Advanced Science and Technology, ICAST, Beijing 2008, December 22-23,2008, Peking University, Beijing, China

[C51] H. H. El-tamaly and ***Adel A. Elbaset***," Modeling and Simulation of Photovoltaic/Wind Hybrid Electric Power System Interconnected with Electrical Utility" The Twelfth International Middle East Power System Conference, MEPCON'2008, South Valley University, Faculty of Eng., Aswan, Egypt, Vol. I, March 13-15, 2008

[C52] B. M Hasaneen, ***Adel A. Elbaset*** **,** "Design And Simulation of DC/DC Boost Converter" The Twelfth International Middle East Power System Conference, MEPCON'2008, South Valley University, Faculty of Eng., Aswan, Egypt, Vol. I, March 13-15, 2008 **Paper #49C**

Paper 2007

[C53] H. H. El-tamaly and ***Adel A. Elbaset***," Study The Operation Of Wind/Photovoltaic Electrical System Interconnected With Utility Grid Using Neural Networks" Al-Azhar Engineering Ninth International Conference, Vol. 2, No. 5, April 12 - 14, 2007.

[C54] H. H. El-tamaly and ***Adel A. Elbaset***," Optimal Operation of Photovoltaic/Utility Grid Interconnected Electrical Power System Using Neural Network", The Eleventh International Middle East Power System Conference, MEPCON'2006, Minia University, Faculty of Eng., El-minia, Egypt, Vol. I, Dec. 19-21, 2006

This paper has been approved for publication in the Middle-East power system Journal. Only 20 out of 110 of the presented papers at the conference have been nominated for publication at the MEPS Journal.

[C55] H. H. El-tamaly and ***Adel A. Elbaset***," Performance and Economic Study of Interconnected PV System with Electric Utility Accompanied with Battery Storage" The Eleventh International Middle East

Power System Conference, MEPCON'2006, El-minia University, Faculty of Eng., El-minia, Egypt, Vol. I, Dec. 19-21, 2006

This paper has been approved for publication in the Middle-East power system Journal. Only 17 out of 110 of the presented papers at the conference have been nominated for publication at the MEPS Journal.

[C56] H. H. El-tamaly and ***Adel A. Elbaset*** "Optimal Operation of Wind/Electric Utility Interconnected Electrical Power System Using Neural Network", The Tenth International Middle East Power System Conference, MEPCON'2005, Suez Canal University, Faculty of Eng., Port Said, Egypt, Vol. I , Dec. 13-14, 2005.

[C57] H. H. El-tamaly and ***Adel A. Elbaset,*** "Optimal operation of photovoltaic/utility grid interconnected electrical power system using neural network", Power Tech, 2005 IEEE Russia, 27-30 June 2005, St. Petersburg, ISBN: 978-5-93208-034-4

[C58] H. H. El-tamaly and ***Adel A. Elbaset Mohammed,*** "Operation and Control Strategy of PV/WTG/EU Hybrid Electric Power System Using Neural Networks" Sixth Regional Conference of the National Committees of CIGRE in Arab countries, Cairo Marriott Hotel, Egypt, 21-23 November 2005.

[C59] H. H. El-tamaly and ***Adel A. Elbaset Mohammed*** " Impact of Interconnection Photovoltaic/Wind System with Utility on Their Reliability Using a Fuzzy Scheme", Proceeding of 3rd Minia International Conference for Advanced Trends in Engineering (MICATE'2005), Minia university, Faculty of Eng., Minia, Egypt, 3-5April, 2005.

[C60] H. H. El-tamaly and ***Adel A. Elbaset Mohammed,*** "Computer Simulation of Photovoltaic Power System Interconnected With Utility Grid", Al-Azhar Engineering Eighth International Conference, Vol. 8, No. 7, December 24 - 27, 2004, pp. 57-64.

[C61] H. H. El-tamaly, F. M. and ***Adel A. Elbaset Mohammed,*** "Study The Optimal Operation Of Electric PV/B/D Generation System By Neural Network" Proceeding of 2004 International Conference on Electrical, Electronic and Computer Engineering, ICEEC'04, 5-7 September 2004, Cairo, Egypt.

[C62] H. H. El-tamaly and ***Adel A. Elbaset Mohammed,*** "Computer Modeling and Simulation of Wind Energy System Connected to Utility Grid" Proceedings on 2004 International Conference on Electrical, Electronic and Computer Engineering ICEEC'04 , 5-7 September 2004, Cairo, Egypt.

[C63] H. H. El-tamaly, A. M. El-tamaly and ***Adel A. Elbaset Mohammed,*** "Design and Control Strategy of Utility Interfaced PV/WTG Hybrid System", The Ninth International Middle East Power System Conference, MEPCON'2003, Minoufiya University, Faculty of Eng., Shebin El-Kom, Egypt, Vol. 2, Dec. 16-18, 2003, pp. 699-674.

This paper has been approved for publication in the Middle-East power system Journal. Only 40 out of 128 of the presented papers at the conference have been nominated for publication at the MEPS Journal.

[C64] H. H. El-tamaly and ***Adel A. Elbaset Mohammed*** and M. M. Hamada " Using Artificial Neural Network to Protect Electrical Power Transformer", Proceeding of 2nd Minia International Conference

for Advanced Trends in Engineering (MICATE'2002), Minia university, Faculty of Eng., Egypt, March 2002.

[C65] H. H. El-tamaly, M. M. Hamada and ***Adel A. Elbaset Mohammed,*** " Study of Inrush Current Phenomenon in Three Phase Transformers", Proceeding of 1st Minia International Conference for Advanced Trends in Engineering (MICATE'99), Minia university, Faculty of Eng., Egypt, 14-17 March 1999.

PUBLICATIONS under Press

1- Adel A. Elbaset, Hamdi Ali, and Montaser Abd El Sattar, "Design and Performance of Single-Phase Grid Inverter Photovoltaic System for Residential Applications with Maximum Power Point Tracking", Sent to Renewable Energy Journal, 28-8-2018

Courses taught

1. Ms Windows and Ms Office 2000, XP, 2003.
2. FORTRAN 77 &90
3. Matlab program
4. Basic and Advanced Basic
5. Visual Basic
6. C^{++}
7. Maintenance of Computer.
8. Internet, ASP
9. Front page.
10. Computer Network.
11. AutoCAD R 14.,2000,2002 ,2004, 2005, 2007
12. Electronics Course
13. Electric Power
14. Power Electronic
15. Pspice course for simulation.
16. ICDL
17. Power System analysis
18. Electronic Commerce

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. ***Renewable Energy Production and Storage***
5. Electric Power Quality
6. Power system
7. Application of Artificial Intelegance
8. Applications of Control Theory to Energy Systems and Industrial Processes
9. Remote Control Over Internet
10. Automatic Control
11. Traveling.
12. Taking care of family, friends and others.
13. Providing social counseling and guidance.

Examination and Supervision of Postgraduate Students

A. Ph.D. Thesis Evaluation and Examiner:

1. **Ahmed Mohammed Mohammed Rashad** , “Performance Analysis of Combined Wind Farm Based on SCIG and DFIG with FACTS Devices during Abnormal Conditions “Ph. D. Aswan University, Sept. 2018.
2. **Alaa Eldin Hussein Abozeid Ahmed** “Grid Synchronization and Control of a Wind Driven Doubly Fed Induction Generator", Ph.D. Faculty of Engineering, Minia University, 2016.
3. **Osama Nafadi A. Esmail**, "Study, Design and Implementation of I-V Tracker of Photovoltaic Module", Ph.D. Faculty of Engineering, Minia University, Feb, 8, 2015.
4. **Montaser M. Abdel Sattar**, "Study, Design and Performance Analysis of Grid-Connected Photovoltaic Power Systems", Ph.D. Faculty of Engineering, Minia University, September, 2015.
5. **Saad Awad Mohamed Abdelwahab**", Performance Analysis of Stand-Alone Photovoltaic Systems with Different Loadsو" Faculty of industrial Education , Suez University, 9 Feb. 2016.

B. M.Sc. Thesis Evaluation and Examiner:

1. Ahmed Emad, “Control of DC / DC Converters for Photovoltaic Systems ", Faculty of Industrial Education, Beni-Suef University, 15 July 2014.
2. Amr Emad, “ Design and Implementation of Automatic Solar Radiation Tracker System for Photovoltaic Power System", Electrical Engineering Department, Faculty of Engineering, Minia University, 24 April 2016.
3. Mohamed Salah, ““Design and Power Quality Improvement of Photovoltaic Power System”, Electrical Engineering Department, Faculty of Engineering, Minia University, 18 May 2016.
4. Mohamed Morad, "Design and Simulation of a Microcontroller-Based Inverter and DC-DC Converter" , Electrical Engineering Department, Faculty of Engineering, Minia University, 21 July 2016.
5. Amar Abdelghfar, " Treatment of Electromagnetic Waves Effect on Protective Equipment " , Electrical Engineering Department, Faculty of Engineering, Minia University, 21 July 2016
6. Ahmed Rashad Mohammed Nour "Study and Control of the Dynamic Performance of the Grid Connected Doubly Fed Induction Generator Driven by Wind Energy", M. Sc. Aswan University, July 2018.
7. Eltayeeb Abdeen “Study of Photovoltaic Systems Performance under Environmental Effects ”, Electrical Engineering Department, Faculty of Engineering, Awasn University, 21 July 2016.
8. Abdelazeem A. Amin, "Performance improvement of inverter fed from wind energy system and Using the Results in Designing a Training program for students of Industrial Education Faculty", Helwan University, Faculty of Industrial Education, July 2017
9. Ahmed Mohammed Ahmed Ibrahim, "Performance Enhancement of a Grid-Connected PV/Wind Hybrid Power System During Environmental Condition Variations and Grid Disturbances", Faculty of Engineering, South Valley University, Qena, Egypt, June 2018.

10. Ahmed Ahmed Mahmoud Faraht, "Modeling and Control of Wind Turbine and PV Systems to Enhance Voltage Stability of Electrical Power Grids", Electrical Engineering Department, Faculty of Engineering, Port Said, Port Said University, 27 Oct. 2018.
11. Mohamed Abdelgwad Mohamed ,""Performance Analysis of Photovoltaic Systems with Energy Storage Systems", Faculty of industrial Education , Suez University, 7 Feb. 2019.

Scientific Theses

1. Scientific Theses Supervised and Examined

Date of Award	Date of Enrollment	Thesis Title	Name of the Candidate	No
		First :Master's Degree – Awarded		
2011/6/28	2007/10/23	Design of Robust Controllers for Vector Control of Induction Motors	Eng. Montaser A. Abdel-Sattar Mohamed Saeed	.1
2011/6/28	2007/10/23	Estimation of Induction Motor Parameters	Eng. Alaa El-Din Hussein Abu Zeid	.2
2015/4/28	2010/9/21	**Effective Methods for Improving the Transient Performance of Doubly-Fed Induction Motors**	**Eng. Ahmed Gamal Mahmoud**	.3
2016/5/31	2011/10/11	Design and Implementation Of Automatic Solar Radiation Tracker System for Photovoltaic Power System	**Eng. Amr Emad El-Din Refaat**	.4
2016/5/31	2011/10/11	Power Quality Improvement of a Wind Driven Doubly Fed Induction Generator	**Eng. Mostafa Magdy Ismail**	.5
2016/6/28	2011/10/11	Design and Power Quality Improvement of Photovoltaic Power System	**Eng. Mohamed Salah Mohamed Hassan**	.6
		Treatment of Electromagnetic Waves Effect on Protective Equipment	**Eng. Amer Nasr Abdel-Ghaffar**	.7
31-10-2016	9-10-2012	Design and Simulation of a Microcontroller-Based Inverter and DC-DC Converter	**Eng. Mohamed Morad Salama**	.8
2014-7-15	2011-3-20	Control of DC / DC Converters for " Photovoltaic Systems ***Faculty of Industrial Education, "Beni-Suef University***	**Eng. Ahmed Emad El-Din Hussein Mahmoud**	.9
`	18-10-2021	Study and Implementation of a Real - Time Home Automation Systems	**Eng. Zeinab Talaat Makhlouf**	.10
	2021-11-15	**"Multi-Objective Optimization of Egyptian Electric Grid-Connected**	**Eng. Haitham Ibrahim**	.11

		Hybrid Renewable Energy Systems"	**Abdel-Baqi El-Bahat**	
ثانيا : درجة الدكتوراه وتم المنح				
2015/2/24	2011/5/10	تصميم وتنفيذ متتبع لمنحنى الجهد والتيار المميز للوحة الخلايا الفوتوفولطية *"Design and Implementation of I-V Tracker of Photovoltaic Module*	م. أسامه نفادي علي إسماعيل	*.12*
2015/9/29	2012/9/11	دراسة وتصميم وتحليل أداء منظومة فوتوفولطية متصلة بالشبكة الكهربية Study, Design and Performance Analysis of Grid-Connected Photovoltaic Power Systems	م. منتصر عبد الستار محمد سعيد	*.13*
2016/5/31	2013/3/12	التزامن مع الشبكة الكهربية والتحكم لمولد حثى ثنائى التغذية والمدار بطاقة الرياح Grid Synchronization and Control of a Induction Wind Driven Doubly Fed Generator	م. علاء الدين حسين أبو زيد	*.14*
2016-2-9	2014-1-11	تحليل **أداء** أنظمة الطاقة الكهروضوئية المستقلة تحت أحمال مختلفة Performance Analysis of Stand-Alone Photovoltaic Systems with Different Loads	م. سعد عوض محمد عبدالوهاب *كلية التعليم الصناعى - جامعة السويس*	*.15*
تم المنح	2014-11-16	دراسة أداء نظم الخلايا الفوتوفلتيه المتصله بالشبكة العموميه Performance Study of Grid Connected Photovoltaic	م. أحمد عمادالدين حسين محمود- كلية الدراسات العليا – جامعة بني سويف	*.16*
تم المنح	9-12-2014	نظام طاقة متجددة مرتبط بالشبكة العموميه الكهربية معتمدا علي الذكاء الاصطناعي لتغذية محطات الاتصالات Renewable Energy system Integrated with Electrical UG based on Artificial Intelligence to supply Communications stations	م. صلاح إبراهيم حسان	*.17*
تم المنح	2015/1/13	دراسة قضايا ربط منظومه الخلايا الفوتوفلتيه المتصله مع شبكة كهربية بإستخدام النظم الخبيره	م. إبراهيم مختار عبدالجواد عبدالنعيم	*.18*
تم المنح	2015/1/13	دراسة قضايا ربط منظومه طاقة الرياح المتصله مع شبكة كهربية بإستخدام النظم الخبيره	م. جابر محمد أحمد	*.19*
تم المنح	2015/1/13	تحسين أداء الشبكة الكهربية الذكية المتصله مع أنظمه الطاقة الفوتوفلتيه	م. حمدي أحمد راضوان	*.20*
ثالثا: درجة الماجستير ولم تمنح حتي تاريخه				
لم تمنح بعد	2013/10/8	دراسة تحسين جودة الطاقة الكهربية لشبكة كهربيه متصله بمنظومه الطاقة الفوتوفولطية" Study of Power Quality Improvements for Grid Connected Photovoltaic Power System	م. أحمد جمال الدين عبدالله	*.21*
		لم تحدد بعد	م. محمد أسعد مهني السيد	*.22*
رابعا: درجة الدكتوراه ولم تمنح حتي تاريخه				
لم تمنح بعد	11-7-2017	Design and Development of a Phasor	م. إبراهيم حسين صالح محمود	*.23*

		Measurements Unit تصميم وتطوير وحدة قياس متزامنه		
24.	م. حازم رمزي أحمد	إطار قائم على إنترنت الأشياء لرصد وإدارة إنتاج النفط الخام A Framework for Monitoring and Management Crude Oil Production Based On IOT	***2018-1-16***	***لم تمنـح بعد***
25.	م. ياسر محمد عبد العزيز عمار	" تحسين أداء وسلامة الشبكة الكهربية لمنشأة نووية بتحديد المكان الأمثل لحاكم موحد سريان القدرة " "Improving performance and safety of electrical grid based on optimal UPFC allocation in a nuclear facility "	***2018-9-17***	***لم تمنـح بعد***
26.	م. غاده وهبي			
27.	م. دعاء جاد			

Projects / Studies Completed

1. Supervision of the design, installation, and commissioning of a 120 kW solar power system in New Valley – Al-Dakhla
   Nov 2018 – Design, supervision of procurement, installation, commissioning, and final acceptance *Al-Madina Farm, New Valley*
2. Supervision of the design, installation, and commissioning of a 60 kW solar power system in New Valley – Al-Kharga
   2020 – Design, supervision of procurement, installation, commissioning, and final acceptance *Haj Mahmoud Qaoud Farm*
3. Supervision of the design, installation, and commissioning of a 60 kW solar power system in New Valley – Al-Dakhla
   Nov 2023 – Design, supervision of procurement, installation, commissioning, and final acceptance *Al-Madina Farm, New Valley*
4. Preparation of electrical work BOQ for the Social Housing Project located in Saft Abu Girg – Beni Mazar **Mar 2016** – Design *Minya Housing Directorate*
5. Design and location planning for transformers for the Social Housing Project – Mallawi **Mar 2016** – Design *Minya Housing Directorate*
6. Design and transformer location planning for the Social Housing Project in Saft Abu Girg – Beni Mazar **Mar 2016** – Design *Minya Housing Directorate*
7. Design of the electrical distribution network for the Social Housing Project in Saft Abu Girg – Beni Mazar **Mar 2016** – Design *Minya Housing Directorate*
8. Design of the electrical distribution network for the Social Housing Project – Mallawi **Mar 2016** – Design *Minya Housing Directorate*
9. Design of the electrical and telecommunication networks for the Social Housing Project – Mallawi **Mar 2016** – Design *Minia Housing Directorate*
10. Commissioning of a 30 kW solar power system with batteries
    Jan 2016 – Full design, supervision of procurement, installation, commissioning, and final acceptance *South Minya District – Minya Governorate*
11. Preparation of a technical report evaluating the technical proposals for Purchase Order No. 63/12/North/2013 regarding power-factor correction panels for Liver Hospital – Minia University **2013** – Technical review report

12. Preparation of BOQ for electrical works for the Social Housing Project in Mallawi **2013** – Design and supervision *Minia Housing Directorate*
13. Electrical installation design for a residential unit under the Social Housing Project – Mallawi **2013** – Design and supervision *Minya Housing Directorate*
14. Design of the general electrical layout for the Social Housing Project in Saft Abu Girg – Beni Mazar **2015** – Design and supervision *Minya Housing Directorate*
15. Electrical installation design for a residential unit under the Social Housing Project in Saft Abu Girg – Beni Mazar **Mar 2016** – Design and supervision
    Minya Housing Directorate
16. Commissioning of a 23.4 kW solar power system with batteries
    Jan 2016 – Full design, supervision of procurement, installation, commissioning, and final acceptance *Mallawi – Minya Governorate*
17. Structural inspection study for the rooftop of the Local Government Building – Minya City to install a 30 kW grid-connected solar system
    Jan 2016 – Engineering safety report
    Minya Local Government Authority
18. Installation and commissioning of a 30 kW grid-connected solar power system
    Jan 2016 – Design, tender evaluation, supervision of installation, commissioning, and final acceptance
    Minya Local Government Building
19. Technical evaluation of bids submitted under Tender No. (149/2017/2018) for the supply, installation, testing, and commissioning of a 500 kVA diesel generator for Liver & Kidney Hospital – North Upper Egypt Branch
    Jun 2018 – Study and adjudication
    Minya University
20. Installation and commissioning of a 15 kW grid-connected solar system
    Jul 2017 – Design, tender evaluation, supervision of installation, commissioning, and final acceptance
    Damsheer Village Council – Minya
21. Installation and commissioning of a 15 kW grid-connected solar system
    Jul 2017 – Design, tender evaluation, supervision of installation, commissioning, and final acceptance
    Barjaya Village Council – Minya
22. Installation and commissioning of a 15 kW grid-connected solar system
    Jul 2017 – Design, tender evaluation, supervision of installation, commissioning, and final acceptance
    Tala Village Council – Minya
23. Installation and commissioning of a 15 kW grid-connected solar system
    Jul 2017 – Design, tender evaluation, supervision of installation, commissioning, and final acceptance
    Beni Mohamed Sultan Village Council – Minya
24. Installation and commissioning of a 15 kW grid-connected solar system
    Jul 2017 – Design, tender evaluation, supervision of installation, commissioning, and

final acceptance
Beni Ahmed El-Gharbia Village Council – Minya

25. Technical engineering report on electrical load analysis for a PVC and polypropylene pipe manufacturing plant located in Matahra Industrial Zone – Third Industrial Sector, Cell 3, Block "B"
    Jul 2016 – Technical engineering report
    Matahra Industrial Zone – Minya
26. BOQ preparation for electrical works for the 4th (top) floor of the Youth & Sports Directorate Building – Minya
    Jul 2018 – BOQ preparation
    Minya Youth & Sports Directorate
27. Technical safety report on electrical installations for the Ascom Carbonate and Chemical Manufacturing Plant
    Aug 2018 – Technical engineering report
    Ascom Company
28. Technical engineering study on electrical loads for Ascom's quarry site operations
    Aug 2017 – Technical engineering report
    Ascom Company
29. Installation and commissioning of a 15 kW grid-connected solar system
    Jul 2017 – Design, tender evaluation, supervision of installation, commissioning, and final acceptance
    Nazlet Hussein Village Council – Minya
30. BOQ preparation for electrical works for the Social Housing Project in Abu Aziz – Abu Shahata Village – Matai (1 building: ground + 5 floors)
    Jan 2015 – BOQ preparation
    Minya Housing Directorate
31. Comprehensive technical report on the safety of electrical panels, wiring, and installations at Sheikh Fadl Hospital – Beni Mazar following a fire caused by a voltage stabilizer
    Apr 2018 – Comprehensive technical report
    Minya Health Directorate
32. Energy-saving and solar energy utilization program between Minya Governorate and Minya University to train engineers and technicians, conducted at the Advanced Power Systems Laboratory – Faculty of Engineering
    2017–2018 – Executive Director of the Advanced Power Systems Lab and Training Supervisor
    Minya Governorate
33. Delivery of training programs between Al-Khashaba International Foundation for Scientific, Legal, Environmental & Social Development and the Faculty of Engineering in the following fields:
    Solar energy, electrical works, plumbing, refrigeration and air-conditioning, vehicle and heavy-equipment maintenance
    2016–2018 – Executive Director of the Advanced Power Systems Lab and Training

Supervisor
Al-Khashaba International Foundation

34. Training and qualification of community members through Solar Power Co. and the Faculty of Engineering in the field of solar energy (courses – seminars – workshops – conferences)
2016–2018 – Executive Director of the Advanced Power Systems Lab and Training Supervisor *Solar Power Company*

REFEREES

1. **Prof. Dr. Omar Hanafy Abdalla**
Former Dean of Faculty of Eng. and Professor, Helwan University**.**
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2. **Prof. Dr. Friedhelm Gehrmann**
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Mobile: +49 171 - 27 27 824 e-Mail: gehrmann@steinbeis-network.com
3. **Prof. Dr. Abdel-Fatah Mohamed Hashem**
Form Vice President for Postgraduate Studies and Research, Professor ,South Valley University, Email: fatah_hashem@yahoo.com, C-Phone 01023824824
4. **Prof. Dr. Hesham Fathi Ali Hamed**
Former Dean of Faculty of Eng. and Professor of Electronics, Electrical Eng. Depart., Faculty of Eng., Minia University, El-Minia, Egypt
Mobile No.: 01112399543 01092083835 Fax No.: 02-086-346674 E-mail Address: hfah66@yahoo.com
5. **Prof. Dr. Randa Abdelkareem**
Dean of Faculty of Engineering,, Heliopolis University
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DATE: 25-3-2026