

Curriculum Vitae for Prof. Dr. Ahmed Thabet Mohamed

CURRICULUM VITAE

1 August 2026



PERSONAL DETAILS

Name: Ahmed Thabet Mohamed
Date of Birth: 13 February 1974
Birthplace: Aswan, Egypt
Nationality: Egyptian

Egypt Address:

Head of Nanotechnology Research Center, Electrical Engineering Dept., Aswan University, Faculty of Energy Engineering, Sahary City, P.O. Box 81528, Aswan, Egypt.

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Web-site Details:

<https://sciprofiles.com>

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<https://orcid.org/0000-0002-9679-9050>

<https://energy.aswu.edu.eg/prof-ahmed-thabt/>

<https://scholar.google.com/citations?user=40yhB0kAAAAJ&hl=th>

<https://www.scopus.com/authid/detail.uri?authorId=24781600000>

<https://www.scopus.com/authid/detail.uri?authorId=24781600000>

https://www.researchgate.net/profile/Ahmed_Thabet_Mohamed/research

My Interested Teach & Research Keywords:

"Green Energy, Nanodielectrics, Nanocomposites, Industrial Applications, Electrical Materials, High Voltage Engineering, Nanotech Applications, Wind Energy, Solar Energy, Hydrogen Energy, Electric Power Engineering, Nanotechnology Industrial Applications"

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ACADEMIC QUALIFICATIONS

- **2021 – 2024 :** **FULL Professor**– The Department of Electrical Engineering, College of Engineering and Information Technology, Buraydah Colleges, KSA.
- **2018 –2021 :** **FULL Professor**– The Department of Electrical Engineering, College of Engineering, Qassim University, KSA
- **2017 – NOW :** **Professor**– The Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Egypt
Major: Electrical Engineering- High Voltage Engineering and Nanotechnology Applications
- **2011 – 2017 :** **Associate Professor**– The Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Egypt
Major:High Voltage Engineering and Nanotechnology Applications
- **2006 – 2011 :** **Assistant Professor**– The Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Egypt
Major: Electrical Engineering- High Voltage Engineering and Nanotechnology Applications.
- **2002 – 2006 :** **PhD (Electrical Engineering)** – The Department of Electrical Engineering, Faculty of El-Minia Engineering, El-Minia University, Egypt
Major: Electrical Engineering
Thesis: Performance of Solid Insulating Materials under High Frequency Alternating Fields and Impulse Voltage
- **1999 – 2002 :** **MSc (Electrical Engineering)** –The Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Aswan, Egypt
Major: Electrical Engineering
Thesis: Grounding Systems of Electric Substations in Non-Uniform Earth Structure with New Analysis
- **1992 – 1997 :** **BSc (Electrical Engineering)** –The Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Aswan, Egypt
Major: Electrical Engineering
Appreciation: Very Good (76.95%)

LANGUAGE ABILITIES & Qualifications:

- Arabic (native), English (fluent) and Germany (basic)
- Quality teaching, teach courses at the undergraduate level, conduct research, supervise student work, and engage in academic scholarship and administrative work for the college and the community.
- A track record of or potential to, secure external funding and produce high-quality research.
- A track record of, or evidence of potential to, publish in leading international peer-reviewed journals (ISI and Scopus Q1, Q2).
- Experience in supervising undergraduate and postgraduate research students.
- The ability to develop new areas of the curriculum should the need arise.

COMPUTER SKILLS

- **Computer Sciences (CS):** Artificial Intelligence, Machine Learning, HCI, Visualization, Algorithms and Theory, Systems, Graphics, and Computer Vision.
- **Software Engineering (SE):** SW Requirements Engineering, Design and Analysis, Quality Assurance and Testing, SW Construction, SW Maintenance, SW Project Management, and Cybersecurity.
- **Information Systems (IS):** Digital Transformation, Enterprise Architecture, Business Process Management, Web Development, and Business Analytics

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ACADEMIC/RESEARCH RELATED POSITIONS HELD

- 2025-NOW** Certified reviewer in the Electrical Power and Machines Committee of the Supreme Council of Egyptian Universities for examining scientific output for professorships and associate professorships.
- 2024-NOW** Vice Dean for Community Service and Environmental Development in Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
- 2009-NOW** Founder&Head of Nano-Technology Research Center, Faculty of Energy Engineering – Aswan University.
- 2021-2024** Head of Electrical Engineering Dept., College of Engineering and Information Technology – Buraydah Colleges, KSA.
- 2019-2021** Head of High Voltage Laboratories, College of Engineering – Qassim University, KSA.
- 2018-2019** Consultant for Engineering and Industrial Technology, Academy of Scientific Research and Technology (ASRT), Egypt.
- 2017-2018** Honest of Industrial Technology Research Council in Academy Scientific, Research and Technology “ASRT” for Ministry of State for Scientific, Research.
- 2008-2018** Staff Member in Project Management Unit “PMU”, Aswan University, Aswan, Egypt.
- 2013-2016** Head of Electrical Engineering Dept., Faculty of Energy Engineering – Aswan University.
- 2009-2011** PI for a Nano-Science Technology funded project from STDF “Novel Methods for Developing the Nano-Science Materials in DC and AC Applications”, Faculty of Energy Engineering – Aswan University.
- 2009-2013** Focal-Point for FP7 European Projects in South Valley University-Aswan branch.
- 2008-2009** Vice-dean for Education and Students affairs in High Institute of Energy, South Valley University, Aswan, Egypt.
- 2006-2007** Assistant Professor in the Electrical Engineering Dept., Faculty of Energy Engineering (FEE), Aswan, Egypt.
- 2002-2006** Lecturer in the Electrical Engineering and Computer Laboratory, Electrical Engineering Dept., Faculty of Energy Engineering (FEE), Aswan, Egypt.
- 1999-2002** Assistant Lecturer in the Electrical Engineering and Computer laboratory, Electrical Engineering Dept., Faculty of Energy Engineering (FEE), Aswan, Egypt.

ACADIMIC ACCREDATION EXPERIENCE AND RESPONSIBLE TASKS:

- 2024-NOW** NCAAA College Committee for Assessment and Academic Accreditation (**NCAAA**), Faculty of Energy Engineering, Aswan University, EGYPT.
- 2022-2024** NCAAA College Coordinator for Assessment and Academic Accreditation (**NCAAA**), College of Engineering and Information Technology– Buraydah Private Colleges, KSA.
- 2018-2021** Member of **ABET** Committee, College of Engineering– Buraydah Colleges, KSA.
- 2018-2021** NCAAA College Coordinator for Assessment and Academic Accreditation (**NCAAA**), College of Engineering– Qassim University, KSA.

COURSES TAUGHT FOR POST-GRADUATE STUDENTS

No.	Course	No.	Course
1	High Voltage Engineering.	6	Advanced Electric Machines
2	Dielectric Materials	7	Renewable Energy and Environment
3	Green Energy Generation	8	Nano-Tech Industrial Applications
4	gear-Switch and Substations	9	Green Energy Storage
5	Transmission and Distribution Systems	10	Green Energy Distribution

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COURSES TAUGHT FOR UNDER-GRADUATE STUDENTS

No.	Course	No.	Course
1	High Voltage Engineering.	11	Electric Machines I
2	Electromagnetics II	12	Electric Machines II
3	Electromagnetics II	13	High Voltage Laboratory.
4	Fundamentals of Electric Circuits	14	Power System Protection
5	Fundamentals of Power Systems	15	Advanced Power System Topics
6	Electric Circuit Analysis	16	Electric Transformers
7	Power System Planning	17	Electric Materials
8	Power Systems Analysis	18	Project Management
9	Electric Power Drives	19	Engineering Economics
10	Fundamentals of Electric Design	20	Senior Project Design

PATENTS

No.	Brief Title
Patent Record no.1: No. 888/2011	Progress for novel costless nano-composite capacitor materials withstands 140% capacitive with respect to conventional capacitors type.
Patent Record no.2: No. 889/2011	Progress for novel costless nano-composite insulation cables withstands 160% MV dielectric strength with respect to conventional cables type.
Patent Record no.3: No. 248/2018	Progress for novel costless multiple nanocomposite Transformer Core have 150% magnetism with respect to conventional transformer core type.
Patent Record no.4: No. 249/2018	Progress for novel costless multiple nanofluids Transformer Oils withstands 180% dielectric strength with respect to conventional Transformer Oils type.
Patent Record no.5: No. ???/2021	Record in progress for novel cost nanotechnology earthing system for electrical substations has low earthing resistance ($10^{-3}:10^{-5} \Omega$) with respect to the same configuration of conventional earthing systems.

SCIENTIFIC WORLDWIDE RANK

2022: TOP 2% of Scientists worldwide,

September 2022 data-update for "Updated science-wide author databases of standardized citation indicators", 10 October 2022|Version 4|DOI:10.17632/btchxktyzw.4
<https://elsevier.digitalcommonsdata.com/datasets/btchxktyzw>

September 2022 data-update for "Updated science-wide author databases of standardized citation indicators" - Elsevier BV (digitalcommonsdata.com)

- 2024: TOP 2% of Scientists worldwide,

September 2024 data-update for "Updated science-wide author databases of standardized citation indicators", 19 Sept. 2024|Version 7|DOI:10.17632/btchxktyzw.7

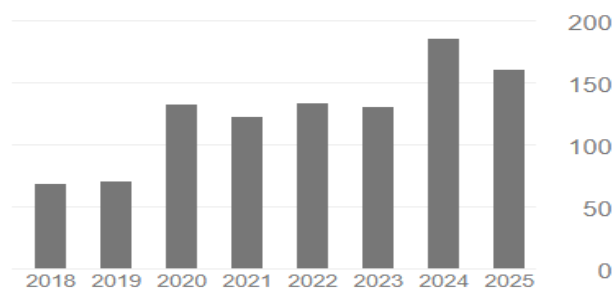
<https://elsevier.digitalcommonsdata.com/datasets/btchxktyzw>

- August 2024 data-update for "Updated science-wide author databases of standardized citation indicators" -

Cited by

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Citations	1215	869
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i10-index	37	26



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[Elsevier BV \(digitalcommonsdata.com\)](https://www.elsevier.com/locate/dcs)

INCENTIVE AWARD PRICES

No.	Brief Title
2015-2025	Aswan University Incentive Award in Engineering Science Publications.
2014	Aswan University Incentive Award in Engineering Science Publications.
2011	South Valley University Incentive Award in Engineering Science Publications.
2009	South Valley University Incentive Award in Excellence Faculty Vice Dean Position

TEACHING AND RESEARCH EXPERIENCE

DATE	Brief Title
2021-2024	Buraydah Colleges, College of Engineering and Information Technology, Buraydah, KSA, to research and teach courses and develop senior design projects.
2018-2021	Qassim University, College of Engineering, Buraydah, KSA, to teach courses and develop senior design projects.
2011-2013	University Politecnico di Torino, Italy, to develop applications using electromagnetic Science Nanotechnology (Many visits).
2007-2012 (Many visits)	University of Leicester, United Kingdom (UK) for the development of the electrical life of the electrical engineering applications using Nanotechnology Science.
2009	University of Tampere, Finland, for the development of the electrical properties of electrical engineering applications using Nanotechnology Science.
2007	Faculty of Engineering, University of Al-Azhar.

EDITORIAL BOARD IN INT. SCIENTIFIC JOURNALS

No.	JOURNAL NAME	No.	JOURNAL NAME
1	American Journal of Polymer Science and Engineering	12	Academic Exchange Information Center "Expert"
2	Journal of Polymer Science and Engineering	13	World Journal of Electrical and Electronic Engineering
3	Viser Technology Pte. Ltd	14	Green Electricity Journal
4	Bentham Science Publishers	15	Journal of Electrical Electronics Engineering
5	Current Materials Science	16	CEOS Nanotechnology and Nanoscience Journal
6	International Journal of Mechatronic Engineering	17	Characterization and Application of Nanomaterials Journal
7	Current Applied Polymer Science	18	Frontiers in Environmental Research (FER)
8	VISION SCIENCE RESEARCH SDN BHD	19	Journal of Data Analytics and Engineering Decision Making
9	Current Chinese Science Materials Science	20	Journal of Manufacturing Science and Mechanical Engineerin
10	Journal of Electronics and Advanced Electrical Engineeri (JEAE)	21	<i>Journal of Optics and Photonics Research</i>
11	PiscoMed Publishing Pte. Ltd. publication house in Singapore.	22	Archives of Engineering and Technology Journal

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REVIEWER MEMBER IN INT. SCIENTIFIC JOURNALS

No.	JOURNAL NAME	No.	JOURNAL NAME
1	IEEE Transactions on Dielectrics and Electrical Insulation	12	Electric Power Systems Research
2	International Journal of Electrical Power and Energy Systems	13	Australian Journal of Electrical and Electronics Enginee
3	Electrostatics	14	Current Nanoscience
4	Bentham Science Publishers	15	Composites Science and Technology
5	Current Materials Science	16	Measurements Journal
6	Results in Engineering	17	Physica B: Condensed Matter Journal
7	International Journal of Hydrogen Energy	18	Data Analytics and Engineering Decision Making
8	Engineering Science and Technology	19	SNAPP Springer Nature Silicon
9	Heliyon	20	Thermochimica Acta
10	Engineering Science & Technology	21	Electric Power Systems Research
11	Renewable and Sustainable Energy Reviews	22	Materials Science Research and Reviews
12	Next Nanotechnology	24	Next Energy

ORGANIZATION CONFERENCES

DATE	CONFERENCE Info.
December 2017	Chairman session of Fourth International Conference of Energy Engineering (ICEE-4), December 28-30, 2017, Aswan, Egypt.
December 2015	Staff member of Organisation Committee in the First International Conference of Energy Engineering (ICEE-3) December 27-29, 2015, Aswan, Egypt.
December 2010	Staff member of Organisation Committee in the First International Conference of Energy Engineering (ICEE-2) December 27-29, 2010, Aswan, Egypt.
December 2008	Staff member of Organisation Committee in the First International Conference of Energy Engineering (ICEE-1) December 29-31, 2008, Aswan, Egypt.

RESEARCH INTEREST

- **High Voltage Engineering:** Developing models and analysis for the Electromagnetic pollution, High Voltage Engineering, Electrostatic Precipitation, Electric Field Calculations, Electric field measurements, Electric coronas calculations, Electric coronas measurements, Environmental impact of high voltage transmission lines, Electric Power Engineering (generation, transmission and distribution).
- **Nano-Science Engineering Materials:** Investigate novel nano-technology materials has been prepared from nano-composite materials via addition Nan scale particles and additives for usage in industrial field. Control in the electrical properties and the characteristics of the dielectric materials with respect to our request and the usage in ac or dc technology.
- **Nanotechnology in Industrial Applications:** Designing theoretical and experimental electrical materials models, Introducing innovative product models of nanotech power cables, capacitors, and electromagnetic industrial applications.... etc. based on nanotechnology techniques, Thermal study for electrical nanotechnology materials, Comparative study between conventional and nanocomposites electrical products. Novel materials of power cables and capacitors products. Controlling in nanotechnology applications usage, testing new fast possible ways of nanotech materials via addition nanoparticles, investigate the different factors affecting on the properties of electrical materials.
- **Renewable Energy Models:** Wind resource likes that wind prediction on the settlements sites where the alternative RE power systems is supposed to work. Analysis for the whole settlement including the use of PV or HPS and setting recommendations for settlers in the selected area. Technical and analysis of the most suitable wind, H2 and PV

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systems for new regions.

- **Distribution network enhancement planning:** according to load increase is a very important problem. Since the enhancement needs huge costs and long lead times, the plan should be built in order to restrain vain investments. In addition, the investment return of distribution system enhancement is naturally small and utility's incentive is getting lower due to the deregulation in power industry.
- **Switchgear and Protection Models:** Developing, design and analysis ATP/EMTP simulation models for over voltage protection, transmission line, transformers, earthing, and cables, active protection from electromagnetic field hazards of a high voltage power line.
- **Green Energy Engineering Generation:** Modifying theoretical techniques to real life engineering applications, particularly to high voltage engineering, protection engineering and so, power system applications.
- **Electric Power Quality:** Improving power factor correction; design new filters for removing harmonics, enhancing performance of power capacitors bank, design new lightning arresters, design new batteries and UPS for continuity electric power.
- **Green Energy Systems:** Green energy generation Systems, green energy storage Systems, System Grounding, green energy distribution systems, Economic study for green energy systems.

LEADER TRAINING GUIDE FOR ENGINEERING COURSES

1. **ADVANCED High Voltage Engineering Course:** This course includes the follow topics: Grounding Systems and Safety Considerations: construction, types and design; Generation and measurements of high DC, AC and impulse voltages; Conduction and breakdown processes in gaseous, liquid, and solid insulating media; High voltage test techniques; Electrical Hazard Awareness; High Voltage Insulators and High Voltage Surge Arresters; High Voltage Industrial Applications.
2. **Nanotechnology in Industrial Applications:** This course includes the follow topics: Designing theoretical and experimental electrical materials models, Introducing innovative product models of nanotech power cables, capacitors, and electromagnetic industrial applications.... etc. based on nanotechnology techniques, Thermal study for electrical nanotechnology materials, Comparative study between conventional and nanocomposites electrical products. Novel materials of power cables and capacitors products. Controlling in nanotechnology applications usage, testing new fast possible ways of nanotech materials via addition nanoparticles, Investigate the different factors affecting on the properties of electrical materials.
3. **Nanotechnology in Photovoltaics Applications:** This course includes the follow topics: Designing theoretical and experimental photovoltaics materials models, Introducing innovative product models of nanotech solar cells applications.... etc. based on nanotechnology techniques, Comparative study between conventional and nanocomposites photovoltaics products. Novel materials of photovoltaics products. Thermal study for photovoltaics nanotechnology, controlling in nanotechnology photovoltaics applications usage, testing new fast possible ways of nanotech photovoltaics materials via addition nanoparticles, Investigate the different factors affecting on the properties of photovoltaics materials.
4. **ADVANCED Electric Machines Course:** Transformers (construction, operation of single-phase transformers, equivalent circuit, voltage regulation and efficiency, auto-transformer, three-phase transformers), AC machinery fundamentals, three-phase induction machines (construction, operation, equivalent circuit, performance, calculations, starting of induction motors, speed control), small AC motors (single-phase induction motors, reluctance and hysteresis motors, universal motors, servo motors, stepper motors. clarify the parameters and the performance characteristics of the most used ac and dc machines. It has been prepared to work in the field of operation, control and maintenance. Also, it has been emphasized the concepts taught in the machine theoretical courses, prepare them to do experimental work in their graduation project when necessary. Finally, this course is able to carry out the necessary tests after manufacturing the machines or the commissioning tests in the sites.
5. **Plot Plan for Engineers Course:** This course includes the follow topics: Introduction, New schemes of preliminary engineering elements, planning new schemes according to type of loads, Calculating the scheme load, Low voltage substation network, Benefits and returns, An empirical scheme study.
6. **ADVANCED Power System Planning Course:** This course includes the follow topics: Electric loads types; Electric loads characteristics; Basic load forecast methodologies; consumer categories; Power system generation;

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Transmission and distribution reliability evaluation; System cost assessment; Load management and energy conservation strategies.

7. **ADVANCED Project Management Course:** This course is in an introductory course on project management. The course covers the project management process from the beginning to the end, focusing on practical skills that make students able to immediately complete projects on time and on budget, while achieving their targets.

ADVANCED Green Energy Systems Course: This course is in an introductory course on introduction to green energy generation Systems, green energy storage Systems, System Grounding, green energy distribution systems, Economic study for green energy systems.

COURSES AND TRAINING SKILLS

TYPE	CONFERENCE Info.
Educational	Preparing and Correct Tests Using Zipgrade Application, Qassim University, Saudi Arabia
Educational	Teaching Using OneNote Program, Kuwait University, Saudi Arabia
Educational	Educational Video Tutorials Using Camtasia Studio, Qassim University, Saudi Arabia
Technical	High Voltage Laboratory Operating Course High Voltage Laboratory, College of Engineering, Qassim University, Saudi Arabia
Educational	Analyzing the Questionnaire Data and Using the Results to Ensure Quality and Continuous Improvement, Qassim University, Saudi Arabia
Educational	Applying E-Learning Quality Standards for Design E-Courses, Qassim University, Saudi Arabia
Educational	Scientific Intelligent for Monitoring E-Tests, Kuwait University, Saudi Arabia
Educational	Increasing Your Scientific Productivity with ScienceDirect Saudi Digital Library Saudi Arabia
Educational	Quality Accreditation in Teaching and Education, Qassim University, Saudi Arabia
Educational	Recording and Publishing Interactive Lectures Using My Mediasite (Online), Qassim University, Saudi Arabia
Educational	Measuring Key Performance Indicators (KPIs) and Benchmarking for Academic Programs (Bachelor, Postgraduate), Qassim University, Saudi Arabia
General	Honour Certificate, Qassim University, Saudi Arabia
Educational	Understanding the peer review and publishing processes, Saudi Digital Library, Saudi Arabia
Educational	Beginners Academic Staff in Qassim University, Qassim University, Buraydah Saudi Arabia
Educational	Online Assessment Tools Using Blackboard , Qassim University Saudi Arabia
Educational	Vision of Solar Energy in the Kingdom of Saudi Arabia: Applications and Challenges, Qassim University, Saudi Arabia
Educational	Springer Nature Saudi Digital Library, Saudi Arabia
Educational	Scopus Sources & Metrics Researcher Academy on Campus, Qassim University, Saudi Arabia
Educational	Mind Mapping, Kuwait University, Saudi Arabia
Educational	Electronic Evaluation Tools (Online), Qassim University, Saudi Arabia
Educational	Assessment Exams and Question Banks (Online) Qassim University, Saudi Arabia
Educational	Formulating Learning Outcomes and Methods of Measuring Them for the Academic Programs and Courses, Qassim University, Saudi Arabia
Educational	Basic Skills to Activate E-Governance, Qassim University, Saudi Arabia
Educational	Define your publication Strategy with Journal Citation Reports, Saudi Digital Library, Saudi Arabia
Educational	Using Multimedia to Create Digital Educational Content, Qassim University, Saudi Arabia

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SCIENTIFIC PUBLICATIONS

PUBLISHED English BOOKS

1. **Ahmed Thabet Mohamed**, and Osama El-Sayed Gouda "Grounding Systems for Electric Substations in Non-Uniform Soil: Design and Operation" LAP LAMBERT Academic Publishing, ISBN-13:978-3-659- 63495-6, ISBN-10:3659634956, EAN:9783659634956, Pages:204, Nov. 2014.
Website: <https://www.amazon.com/Grounding-Systems-Electric-Substations-Non-Uniform/dp/3659634956>
2. **Ahmed Thabet Mohamed**, Osama El-Sayed Gouda, and Hassan El-Tamaly "Electrical Composite Materials for Industrial Applications: Design and Investment" LAP LAMBERT Academic Publishing, ISBN- 13:978-3-659-50831-8, ISBN-10:3659508314, EAN:9783659508318, Pages 244, Jan. 2015.
Website: <https://www.amazon.com/Electrical-Composite-Materials-Industrial-Applications/dp/3659508314>
3. **Ahmed Thabet Mohamed**, "Design and Investment of High Voltage NanoDielectrics" IGI Global, Publisher of Timely Knowledge, **SCOPUS**, ISBN13: 9781799838296, ISBN10: 1799838293, EISBN13: 9781799838302, <https://doi.org/10.4018/978-1-7998-3829-6>, Pages 363, August 2020.
Website: <https://www.igi-global.com/book/design-investment-high-voltage-nanodielectrics/244254>
4. **Ahmed Thabet Mohamed**, "Emerging Nanotechnology Applications in Electrical Engineering" IGI Global, Publisher of Timely Knowledge, **SCOPUS**, ISBN13: 9781799885368, ISBN10: 1799885364, EISBN13: 9781799885382, ISBN13 Softcover: 9781799885375, <https://doi.org/10.4018/978-1-7998-8536-8>, Pages 318, June 2021.
Website: <https://www.igi-global.com/book/emerging-nanotechnology-applications-electrical-engineering/271357>
5. **Ahmed Thabet Mohamed**, "Nanotechnology in Green Energy Generation" CRC Press Books, Routledge, Taylor & Francis, Group, ISBN: 978-1-032-84386-5 (hbk), ISBN: 978-1-032-84387-2 (pbk), ISBN: 978-1-003-51248-6 (ebk), <https://doi.org/10.1201/9781003512486>, Pages 264, March 2025.
Website: <http://www.routledge.com/9781032843865>
6. **Ahmed Thabet Mohamed**, "Nanotechnology Challenges in Industrial Engineering" **Under Publishing**, CRC Press Books, Routledge Taylor & Francis, Pages 300, Oct. 2025.
Website: <https://www.igipublishing.com/>
7. **Ahmed Thabet Mohamed**, "Progress of Artificial Intelligence in Electrical Engineering" **Under Publishing**, CRC Press Books, Routledge Taylor & Francis, Pages 300, Oct. 2026.

TRANSLATED BOOKS TO ARABIC

ARABIC VERSION for all PUBLISHED BOOKS under REVISION

١. أنظمة تأريض المحطات الكهربائية في تربة غير متجانسة: التصميم والتشغيل
ISBN-13:978-3-659- 63495-6, ISBN-10:3659634956, EAN:9783659634956, Pages:204, Nov. 2014
تمت الترجمة ولم يصدر بعد....
٢. تطبيقات المواد المركبة في الصناعة: التصميم والاستثمار
ISBN- 13:978-3-659-50831-8, ISBN-10:3659508314, EAN:9783659508318, Pages 244, Jan. 2015.
تمت الترجمة ولم يصدر بعد....
٣. تصميم واستثمار المواد العازلة النانوية في تطبيقات الجهد العالي
ISBN13: 9781799838296, ISBN10: 1799838293, EISBN13: 9781799838302, <https://doi.org/10.4018/978-1-7998-3829-6>, Pages 363, August 2020
تمت الترجمة ولم يصدر بعد....
٤. تطبيقات تكنولوجيا النانو الناشئة في الهندسة الكهربائية
ISBN13: 9781799885368, ISBN10: 1799885364, EISBN13: 9781799885382, ISBN13 Softcover: 9781799885375, <https://doi.org/10.4018/978-1-7998-8536-8>, Pages 318, June 2021
تمت الترجمة ولم يصدر بعد....
٥. توليد الطاقة الخضراء باستخدام تقنية النانو
ISBN: 978-1-032-84386-5 (hbk), ISBN: 978-1-032-84387-2 (pbk), ISBN: 978-1-003-51248-6 (ebk), <https://doi.org/10.1201/9781003512486>, Pages 264, March 2025.
تمت الترجمة ولم يصدر بعد....

CONFERENCE PUBLICATIONS

1. O. Gouda, **A Thabet**, H. H. El- Tamaly, "How to Get Low Dielectric Losses in Binary and Multi-Mixtures Dielectrics at High Frequency" IEEE-39th International Universities Power Engineering Conference "UPEC-2004", 6-8 Sep., ENGLAND, pp. 1237-1240, 2004. [IEEE Conference Publication | IEEE Xplore](#)
2. O. Gouda, **A Thabet**, H. H. El- Tamaly, "New Mathematical Model for Water Treeing in Solid Insulations" IEEE-International Symposium on Electrical Insulating Materials, 5-9 June, Kitakyushu, JAPAN, pp. 312-315, 2005. <https://doi.org/10.1109/ISEIM.2005.193550>
3. O. Gouda, **A Thabet**, H. H. El- Tamaly, "A New Mathematical Model for Evaluating Breakdown in Solid Insulations under Impulse Conditions" IEEE- International Symposium on Electrical Insulating Materials, 5-9 June, Kitakyushu, JAPAN, pp. 533-536, 2005. <https://doi.org/10.1109/ISEIM.2005.193423>
4. O. Gouda, **A Thabet**, H. H. El- Tamaly, "Electrostatic Field Distribution in Dielectric Mixtures of Three-Core Belted Power Cables" IEEE-10th International Middle East Power System Conference "MEPCON", 13-15 Dec. Port Said, EGYPT, HV06, pp. 91-95, 2005.
5. **A Thabet**, J. Fothergill, "Space-Charge Measurement in Composite Dielectrics" IEEE-12th International Middle East Power System Conference being at Faculty of Engineering," MEPCON'8", 15-17 March, EGYPT, pp. 71-74, 2008. <https://doi.org/10.1109/MEPCON.2008.4562405>
6. **A. Thabet**, Y. A. Mobarak, "Dielectric Characteristics of New Nano-Composite Industrial Materials" International Conference on High Voltage Engineering and Application "ICHVE", 11th – 14th Oct., New Orleans, USA, pp. 568 – 571, 2010. <https://doi.org/10.1109/ICHVE.2010.5640767>
7. O. Gouda, **A. Thabet**, and M. Abdrbo, "Developing Dielectric Properties of Industrial Materials by Nano-Technology Technique" Fourteenth International Middle East Power Systems Conference "MEPCON'10", 19-21 Dec., EGYPT, 2010. <https://doi.org/10.1109/ICHVE.2010.5640767>
8. **A. Thabet**, and Y. A. Mubarak, M. Samir, "Complex Permittivity of Nano-Composite Systems and Comprehensive Inter Phase Approach" The Second International Conference on Energy Engineering (ICEE-2), 27-29 Dec., EGYPT, 2010.
9. **A. Thabet**, and Y. A. Mubarak, M. Abdrabo, "Dielectric Properties Response of Industrial Applications by Nano-Composite Materials" the Second International Conference on Energy Engineering (ICEE-2), 27-29 Dec., EGYPT, 2010.
10. **A. Thabet**, and Y. A. Mubarak, M. Abdrabo, "Effective Dielectric Properties Response of Nano-Composite using different Fitting Models" The Second International Conference on Energy Engineering (ICEE-2), 27-29 Dec., EGYPT, 2010.
11. **A. Thabet**, Y. A. Mobarak, and A. Hassan "New Nano-Composite Materials for Enhancing Performance of Surface Plasmon Resonance Sensor" The Second International Conference on Energy Engineering (ICEE-2), 27-29 Dec., EGYPT, 2010.
12. O. Gouda, A. Z. El Dein, **A. Thabet**, and A. El Taib, "Performance of Ceramic Insulator Type under Different Polluted Conditions" The Second International Conference on Energy Engineering (ICEE-2), 27-29 Dec., EGYPT, 2010.
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6. Progress with a brief description of the plans that are implemented to develop and improve courses student in building curricula and developed through direct and guide the students to see the references modern relevant and the results of recent research scientific journals and periodicals Court, in an effort to diversify the teaching methods and the calendar.
7. Using of modern teaching strategies for the development of under graduate students' skills through (free classroom discussions - brainstorming - Problem Solving - collective projects).
8. Using of teaching strategies for the development of curricula for post graduate students in communication skills, information technology and drawing upon and communicate with graduates through research projects. It has been funded projects such as research center nanotechnology to provide modern teaching curricula. It has been utilized the resources and the equipment and raw materials used in the manufacture of nanotechnology samples for matching industrial manufactures as well as participation in conferences Global scientific research has already been graduation.

Curriculum Vitae for Prof. Dr. Ahmed Thabet Mohamed

REFERENCES

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STATEMENT

In my research, I would welcome the challenges of electrical engineering, especially nanotechnology branch of ac and dc applications. It is in these early postgraduate courses that we have the opportunity to draw in new nano-metric materials and I feel that my experience as guide for researchers which will aid me in designing nano-technology techniques for all different types of engineering applications. In addition, my present research is developing a model to describe the aging of nano-science polymeric insulators. My research Interests are also in modelling the nano-technology materials of electrical engineering applications, improving electrical properties of insulating materials , natural energy utilization, effects of electrostatic and electromagnetic fields on petroleum pipelines and storages tanks, modelling ATP/EMTP simulation programs for transmission line, transformers, earthing, and cables, improving performance of low and high voltage cables, and active protection from electromagnetic field hazards of high voltage power line. My awards in my field are investigation joining between academic research and industry companies for developing the products and innovating new technology techniques. Also, one of my greatest assets is my ability to teach in the lecture theatre. My teaching evaluation scores have routinely been higher than the department averages and goals in nearly every category. These categories include my enthusiasm for teaching, my course effectiveness, and whether the student would recommend me to other students. Comments from students included with these evaluations have indicated to me that students appreciate my teaching style and would enjoy taking courses from me again. I am fortunate to have been able to learn from exceptional instructors, and I have tried to incorporate their various teaching styles into my own. I strongly believe in the strengths of problem-based learning, especially in a field such as electrical engineering. I continually try to involve the class in every activity via active learning techniques, as opposed to having a strictly lecture-based class. Providing equal opportunity to all students is at the heart of good educational practice. My teaching is based on providing a fair education for all; Teaching is something that I firmly believe is not tied specifically to the lecture theatre. During my time in Academia, I have found many more teaching scenarios outside of the regular course schedule of my students, the laboratory, the cafeteria, and even at sporting events. This is probably why I believe that, as a teacher, it is not just my responsibility to provide a lecture two to three times a week. Above that, there have to be ideas, projects, questions, and concerns that extend past the standard course setting. My goal is to create learning experiences that engage the student both in and out of the lecture room. Students should come to lecture, learn something new, work with their course mates to form a better picture of the concept in their mind, and then find places in their life where the ideas are real and apparent. I have found that in the field of electrical engineering, even the most abstract theory can be made more concrete via real world examples and analogies. While my teaching interests and abilities lie primarily in the area of high voltage, I feel that I am prepared to a variety of courses. On the other with, I am a Guide Research Networking Unit in my university to follow up on the implementation of the service contract for the support project and mobilities activities. Guide Research Networking Unit lead to monitor the implementation of activities of the academic staff and young researchers, disseminating and promoting EU funded research programmes' calls. Already, I have been Updated the RDI Research Networking Unit section on the RDI "Aswan University. Handling technical, logistical and administrative issues associated to the travel grants of Aswan University scientists and researchers to attend events relevant to the EU funding programmes in Europe and the Mediterranean Countries. My Communications Office are developed printing and promotional material on RDIN activities and developing a database of staff and young researcher's areas in which Egypt is strong and with whom there may be joint development opportunities. Also, I have been Analysed and prepared statistics on Egypt's participation in EU Funded projects.

Note: The details provided in this CV are the most recent ones on the date this CV was written.