



Name: Eng. Hania Ghazi El Kanj

Rank: Senior Instructor - Electrical & Electronics Engineering

Personal Information

Nationality:	Lebanese
AU Joining Date:	01 Mar 2010
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Professional Information

Education:	Qualification: Masters Major: Management College/University: MSM - Maastricht University Year: 2013/2014 Qualification: Bachelor of Engineering Major: Electrical Engineering College/University: Beirut Arab University Year: 2004/2005
Specialization:	Communications and Electronics Engineering
Current Academic Position:	Senior Instructor - Electrical & Electronics Engineering
Current Professional Positions:	- Active member of the Institute of Electrical and Electronics Engineers "IEEE" ID#: 41536779 - Active member of the Kuwait Society of Engineers "KSE" ID#: 39348 - Active member of the "Ordre des Ingénieurs et Architectes, Liban", Tripoli-Lebanon ID #: 5539 - Active member of the BAU committee for graduates, Tripoli- Lebanon ID #: 258
Previous Administrative Position Held:	- Computer Administrator, Bekdash Company, Beirut-Lebanon, (2005) - Technical Engineer, Cable Vision, Beirut-Lebanon (2004) - Technical Engineer, Inteltec, Beirut-Lebanon (2004)

	• System Engineer, OGERO, Beirut, Lebanon (2003) • Computer Systems Engineer, ACICO, Tripoli, Lebanon (2002)
Previous Academic Positions Held:	• Instructor, Australian University, Mishref-Kuwait (2018-2022) • Teaching Assistant, Australian University, Mishref-Kuwait (2014-2018) • Lab Engineer, Australian University, Mishref-Kuwait (2010-2014) • Lab Instructor, Lebanese International University, Tripoli-Lebanon (2008-2010) • Instructor, Lebanese International University, Tripoli-Lebanon (2007-2010) • Lab Instructor, City University of Tripoli, Tripoli-Lebanon (2006-2010) • Instructor, Jinan University of Tripoli, Tripoli-Lebanon (2005-2010)
Fellowships And Honors:	• Member of Kuwait Society of Engineers, ID #: 39348 • IEEE member, ID #: 41536779 • Member of the “Ordre des Ingénieurs et Architectes, Liban”, Tripoli-Lebanon ID #: 5539 • Member of the BAU committee for graduates, Tripoli- Lebanon ID #: 258 • Member of the INJAZ –Lebanon committee, Beirut-Lebanon
Teaching Experience:	• Senior Instructor, Australian University, Mishref-Kuwait (2022-To Present) • Instructor, Australian University, Mishref-Kuwait (2018-2022) • Teaching Assistant, Australian University, Mishref-Kuwait (2014-2018) • Lab Engineer, Australian University, Mishref-Kuwait (2010-2014) • Lab Instructor, Lebanese International University, Tripoli-Lebanon (2008-2010) • Instructor, Lebanese International University, Tripoli-Lebanon (2007-2010) • Lab Instructor, City University of Tripoli, Tripoli-Lebanon (2006-2010) • Instructor, Jinan University of Tripoli, Tripoli-Lebanon (2005-2010)
Industrial And Technical Experience:	• Computer Administrator, Bekdash Company, Beirut-Lebanon, (2005) • Technical Engineer, Cable Vision, Beirut-Lebanon (2004) • Technical Engineer, Inteltec, Beirut-Lebanon (2004) • System Engineer, OGERO, Beirut, Lebanon (2003) • Computer Systems Engineer, ACICO, Tripoli, Lebanon (2002)
Research Interest:	• Renewable Energy • Digital Transformation • Learning Management Systems • E-Learning • Energy Literacy
Research Grants:	KFAS Research Grant, Research Assistant / Joint research project: AU with Nigde Omer Halisdemir University, Turkey (Dr. Ayse Topal). Entitled: Effect of Energy Efficient Technologies and Energy Literacy Interventions on the Energy Efficiency at Academic Building in Kuwait. Duration: October 01, 2019 – September 30, 2021 (24 months). Value of Grant: 9,075 KD.
Research and Publications including Journal and Books:	<u>Journal papers:</u> 1. El-Kanj, H. (2025). Analyzing Critical Success Factors That Affect the Adoption of Digital Transformation for Achieving Sustainability in

Kuwait's Higher Education. *SBS Journal of Applied Business Research*, 13(2).

2. Alomari, M., El-Kanj, H., Alshdaifat, N., & Topal, A. (2025). Designing an Effective Energy Literacy Course: A Multi-Phase Approach Tailored to Kuwaiti Students' Needs. *World Transactions on Engineering and Technology Education (WIETE)*, 23(1), 23-1.
3. Alomari, M., El-Kanj, H., Alshdaifat, N., & Topal, A. (2024). Improving energy literacy among Kuwaiti university students with a tailored course on sustainable energy practices. *Global Journal of Engineering Education (GJEE)*, 26(1), 6-12.
<http://www.wiete.com.au/journals/GJEE/Publish/vol26no1/01-Alomari-M.pdf>
4. Salti, H. & El-Kanj, H. (2023). Characteristics of effective feedback in PBL: an exploratory study. *Global Journal of Engineering Education (GJEE)*, 25(3), 149-155.
<http://www.wiete.com.au/journals/GJEE/Publish/vol25no3/01-Salti-H.pdf>
5. Alomari, M., El-Kanj, H., Alshdaifat, N., & Topal, A. (2023). Exploring the Impact of the COVID-19 Pandemic on Energy Literacy and Conservation Behavior in Academic Buildings of Kuwait. *Heliyon*, 9, 1-21. <https://doi.org/10.1016/j.heliyon.2023.e21474>
6. Salti H. & El-Kanj H. (2023). Effectiveness of various PBL feedback channels in engineering education. *World Transactions on Engineering and Technology Education*, 21(1), 12-17.
7. Alomari, M., El-Kanj, H., Alshdaifat, N., & Topal, A. (2022). Energy Conservation Behavior of University Occupants in Kuwait: A Multigroup Analysis. *Sustainable Energy Technologies and Assessments*, 52, Part C. <https://doi.org/10.1016/j.seta.2022.102198>
8. El-Kanj, H., Alomari, M., Alshdaifat, N., & Topal A. (2022). Assessment of Energy Literacy among University Occupation: The Case of Kuwait. *International Journal of Applied Engineering Research (IJAER)*, 2(1), 1-14. https://romanpub.com/resources/1.%20Energy%20Literacy%20-%20IJAER_pagenuumber.pdf
9. Alomari, M., El-Kanj, H., Topal, A., & Alshdaifat, N. (2022). Assessment of Energy Literacy of Higher Education Students in Kuwait. *International Journal of Management and Applied Science (IJMAS)*, 8(2), 33-39. <https://iraj.doionline.org/dx/IJMAS-IRAJ-DOIONLINE-18512>
10. Alomari, M., El-Kanj, H. & Topal, A. (2020). Analysis of Energy Conservation Behavior at the Kuwaiti Academic Buildings. *International Journal of Energy Economics and Policy*, 11, 219-232. <https://doi.org/10.32479/ijeep.10407>.
11. Alomari, M., El-Kanj, H., Topal, A., & Alshdaifat, N. (2020). A Framework for the Impact of Human Factors on the Effectiveness of Learning Management Systems. *IEEE Access*, 8, 23542–23558. <https://doi.org/10.1109/access.2020.2970278>.
12. Abdul-Niby, M., Alameen, M., & El-Kanj, H. (2016). A Simple Phase Shifting Technique for an Injection Locked Oscillator. *Engineering*,

	<i>Technology & Applied Science Research</i>, 6, 1303–1306. https://doi.org/10.48084/etasr.881. 13. Selmi, T., Sabati, M., Irsheid, O., & El-Kanj, H. (2015). VHDL-AMS based modeling of SIC-schottky diode. <i>Journal of Electrical Engineering</i>, 15, 142-148. 14. Selmi, T., El-Kanj, H., Abdul-Niby, M., & Hamwi, H. (2014). Solar Photovoltaic Trends and Challenges in Kuwait. <i>International Journal of Engineering and Technical Research (IJETR)</i>, 2(9). <u>Book chapters:</u> N/A <u>Theses:</u> 1. Study on the human related factors that impact the effectiveness of learning management systems implemented in Kuwait, May 2014 2. BLUEAR, implementing a lecture room for hearing impaired students, May 2005
Paper Presentations at Professional Conferences:	<u>Conference papers:</u> 1. Salti H., El-Kanj H., Alradhwan S., AlKhatib F., & Abdul-Niby M. (2025). Assessing Sustainability in Kuwait's Higher Education Institutions' Engineering Curricula. <i>Proceedings of the 21st International CDIO Conference</i>. 2. Alomari, M., El-Kanj, H., Topal, A., & Alshdaifat, N. (2025). A Holistic Approach to Energy Consumption in Kuwait Academic Buildings: Energy Literacy, Behavior Change, and Technological Participation, <i>Proceedings of 9th International Conference on Energy Economics and Energy Policy (ICEEEP - 2025)</i>. 3. El-Kanj, H., Asmi, A., & Masmoudi, A. (2024). Multi-physics FEA modelling and features investigation of a high fault-tolerant 48V automotive electric propeller. <i>2024 Third International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART)</i>, 1–10. https://doi.org/10.1109/SMART63170.2024.10815436 4. El-Kanj, H., Alaslami, A., Alfaiakawi, A., Alkandari, E., & Hajjeah, A. (2024). A smart IoT based water desalination system: A Kuwaiti case study. <i>Proceedings of the 2024 Third International Conference on Sustainable Mobility Applications, Renewables, and Technology (SMART)</i>, 1–8. https://doi.org/10.1109/SMART63170.2024.10815280 5. El-Kanj, H., Abdulqader, F., Albannai, A., Alarbash, A., & Aldaihani, M. (2024). An IoT Based Smart Waste Management System with Built-in Segregation Feature. <i>Proceedings of the First GCC Engineering Symposium, Kuwait</i>, Special Issue. https://kuwaitjournals.org/jer/index.php/JER/article/view/20237 6. Salti H., El-Kanj H., AlKhatib F., & Abdul-Niby M. (2023). Promoting Curriculum Agility Through Project-Based Learning: Case Of The Australian University (Kuwait). <i>Proceedings of the 19th International CDIO Conference</i>, 481-490. http://www.cdio.org/knowledge-library/documents/promoting-curriculum-agility-through-project-based-learning-case

	7. Alomari, M., El-Kanj, H., Topal, A., & Alshdaifat, N. (2022). Assessment of Energy Literacy Of Higher Education Students In Kuwait, <i>Proceedings of ISER International Conference on Science, Technology, Engineering and Management (ICSTEM-2021)</i>. 8. Zaki, M., El-Kanj, H., Salti, H., & Abdul-Niby, M. (2020). Tablet-Aided Lecturing Effectiveness: Case of the Australian University. <i>Proceedings of the 16th International CDIO Conference, 1</i>, 291-302. http://www.cdio.org/knowledge-library/documents/tablet-aided-lecturing-effectiveness-case-australian-college-kuwait 9. Selmi, T., El-Kanj, H., & Masmoudi, A. (2015). An Approach to Remediate Failures of Hall Effect Sensors in BLDC Motor, <i>Proceedings of the International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART)</i>, 1-7. https://doi.org/10.1109/SMART.2015.7399249 10. Selmi, T., El-Kanj, H., & Masmoudi, A. (2015). A novel single phase transformerless inverter topology for PV applications, <i>Proceedings of the International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART)</i>, 1-7. https://doi.org/10.1109/SMART.2015.7399247 11. Selmi, T., El-Kanj, H., & Abdul-Niby, M. (2015). Investigation and Sizing of a Solar Power Station at the Australian University. <i>Proceedings of the Tenth International Conference on Ecological Vehicles and Renewable Energies (EVER)</i>, 1-7. https://doi.org/10.1109/EVER.2015.7113001 12. Selmi, T. & El-Kanj, H. (2015). Review of Smart Grid Systems' Requirements. <i>Proceedings of the Tenth International Conference on Ecological Vehicles and Renewable Energies (EVER)</i>, 1-6. https://doi.org/10.1109/EVER.2015.7113004
College Service including committee Membership:	<u>College Service:</u> • Electrical Engineering Instructor in the “Virtual Engineering Camp”, 2020 • Member of the Distance Learning Advisory Committee since 2020 • Established Kids Reading Club, 2019 • Contributed to the process of earning Engineers of Australia Accreditation 2012 and 2018 • Published AU ELEC Newsletter, Issue 1 • Supervised AU students to participate efficiently in Kuwait’s National Robotics Competition held at KU • Contributed towards establishing and organizing the first training workshop at AU Robotics Club • EE department representative at AU Open Day 2016 • Contributed to the process of earning ISO 9001 standards at COE level • Participated in the process of updating AU website (COE homepage) • Participated in the process of student advising since 2014 <u>Committee Membership:</u> • Member of the CoE Accreditation and Audit Committee • Member of the EE Curriculum Committee • Member of the EE Activities and Events committee

	• Member of the EE Quality Management Committee • Member of the EE Teaching, Learning, Validation & Moderation Committee • Member of the committee established to publish the Engineering Yearbook 2017-2018 • Member of the organizing committee at student's graduation project exhibition 2015 • Member of the organizing committee at SMART 2015 conference
National Service:	• Coach for AU students at Kuwait Collegiate Programming Competition 2022 and 2023 • Electrical Engineering Instructor in the "Discover Engineering Virtually Camp", 2021 • Mentor of Girls in AI 2021 Hackathon, Bayan Bilingual School, 2021 • Electrical Engineering Instructor in the "Virtual Engineering Camp", 2020 • Established Kids Reading Club, 2019 • Co-Coach for AU students at Kuwait Collegiate Programming Competition 2018-2019 • EE department representative at AU Open Day 2016 • Member of the organizing committee at SMART 2015 conference • Contributed towards establishing and organizing the first training workshop at AU Robotics Club that was open for school students • Supervised AU students to participate efficiently in Kuwait's National Robotics Competition held at KU
College Committees:	• Member of the CoE Accreditation and Audit Committee • Contact person between CoE and Annual Report Team • Contact person between CoE and QAA for all auditing and accreditation processes • Member of the Engineer's Australia Accreditation Committee