1. Name and Academic rank

Ossama Dankar, Assistant Professor, full-time at Beirut Arab University

2. Education: Degrees, discipline, institution and date

Ph.D., Electrical Engineering, Beirut Arab University, 2024
M.S., Electrical Engineering, Beirut Arab University, 2017
B.E., Electrical Engineering, Beirut Arab University, 2013

3. Academic experience

- Beirut Arab University, Assistant Professor, 2024-present, full-time
- Beirut Arab University, Lecturer, 2017-2024, full-time
- IPNET and Qalamoun Technical Education Institutes, Instructor, 2015-2019, part-time

4. Non-academic experience

- EDSO Construction, Tripoli, Electrical Engineer, 2013-2018. Electrical installation and automation projects included BAU Tripoli Branch, Al Rahma Hospital, Al Mina Sports City, and Tripoli Stadium.
- Saudi Oger Ltd., Electrical Design Engineer, 2014-2015. Contributed to electrical design work for King Abdullah Financial District (Riyadh) and King Abdulaziz World Center (Dhahran).

5. Certification or professional registration

- Member, Order of Engineers and Architects, Tripoli, Lebanon
- Advanced Electrical Installation Course, Order of Engineers and Architects, Lebanon
- Advanced Presentation Skills, Beirut Arab University
- Robotics and Arduino, STEM

6. Current membership in professional organizations

- Institute of Electrical and Electronics Engineers (IEEE)
- Order of Engineers and Architects, Tripoli, Lebanon

7. Service activities

- 2025-2026 Graduate Studies Committee member, Beirut Arab University
- 2025-2026 Reviewer, Fuel Cells (Wiley) and Energy Exploration & Exploitation
- Ongoing Student advising and final-year project supervision, Beirut Arab University

8. Principal publications and presentations from the last five years

8.1 Journal Publications

- C. Nohra, B. Nehme, R. Ghandour, O. Dankar, M. Khaled, and A. M. Alsayah, “A μ-Synthesis Framework for Multi-Domain Robust Load Frequency Control Under Concurrent Communication Delays and Parametric Uncertainties,” IEEE Access, 2026.
- O. Dankar, M. Tarnini, A. El Ghaly, N. Moubayed, and K. Chahine, “A Neural Network-Based Model Predictive Control for a Grid-Connected Photovoltaic-Battery System with Vehicle-to-Grid and Grid-to-Vehicle Operations,” Electricity, vol. 6, no. 2, art. 32, 2025, doi: 10.3390/electricity6020032.

8.2 Conference Proceedings

- O. Dankar, M. Tarnini, A. El Ghaly, N. Moubayed, and K. Chahine, “A Grid-Tied Photovoltaic-Battery System for Bidirectional Electric Vehicle Charging,” in 2025 15th International Conference on Electrical Engineering (ICEENG), 2025, doi: 10.1109/ICEENG64546.2025.11031346.
- O. Dankar, K. Chahine, M. Tarnini, A. El Ghaly, and N. Moubayed, “Simulation of Neural Network-Based Model Predictive Control for Bidirectional EV Charging in Grid-Connected PV-Battery Systems,” in Smart Grid & Energy Systems Conference (SGES), 2025.

9. Professional development activities in the last five years

- Supervised the final-year project “Sustainable Energy Transition in Lebanon: A Case Study of Baissour Municipality,” including load assessment, renewable-energy scenarios, techno-economic analysis, and reliability evaluation.
- Contributed to the design and implementation supervision of a solar-powered street-lighting project with the Municipality of Qalamoun, including feasibility assessment, technology selection, stakeholder coordination, and installation oversight.
- Participated in technical visits and applied projects connecting students with renewable-energy and industrial organizations.
- Conducted peer-review activities for international engineering journals.