



1. Name and Academic Rank:

Sandy J. Chaaban, Assistant Professor

2. Education:

- Diploma, Sustainability in the Built Environment 2025
Institution: American University of Beirut
- PhD, Structural and Geotechnical Engineering 2025
Institution: Beirut Arab University
- M.E., Structural and Geotechnical Engineering 2016
Institution: Beirut Arab University
Thesis: "The Effect of Concrete Creep Behavior on the Shortening of Vertical Structural Elements in High Rise Buildings"
- B.E., Civil and Environmental Engineering 2015
Institution: Beirut Arab University

3. Work experience

- Assistant Professor at Beirut Arab University (2025-Present)
- Lecturer at Beirut Arab University (2018-2025)
- Graduate Assistant at Beirut Arab University (2015-2018)
- Spectrum Engineering Consultants
- Dar Al-Handasah (Shair & Partners) - Transportation Department
- Dar Al-Handasah (Shair & Partners) - Structural Department

4. Certification or professional registration

Civil Engineer - Member of the Order of Engineers & Architects of Beirut

5. Service activities

- Member of the Students' Life Committee (2025-Present)
- Member of the Public Relations Committee (2022-Present)
- Member, Faculty of Engineering Student Affairs Committee (2019-2020)
- Member and Organizer of the Job and Career Fair (2016-2019)
- Speaker and Presenter at Engineering Fairs, Job Fairs and Alumni Occasions (2016-2018)

6. Research Interests

- High-rise buildings
- Impact loads and impact resistance of structural elements



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- Numerical modeling
 - Structural dynamics
 - Concrete structures
 - New construction materials

7. Principal publications and conference proceedings:

Chaaban S., Temsah Y., Darwiche M. "Structural Response of Post-tensioned Slabs Reinforced with Forta-Ferro Under Impact Load: Experimental and Numerical Approach." Open Civil Engineering Journal, 19, 2025.

Chaaban S., Temsah Y., Darwiche M. "Structural Response of Post-Tensioned Slabs Reinforced with Forta-Ferro Under Impact Load." International Conference on Construction Engineering, Damascus University, February 2025.

Chaaban S. "Structural Response of Post-Tensioned Slabs Reinforced with Forta-Ferro and Conventional Shear Reinforcement under Impact Load." Fibers, 12(10), 79, 2024.

Jahami A., Temsah Y., Baalbaki O., Chaaban S., Khatib J. "Impact Behavior of Rehabilitated Post-Tensioned Slabs Previously Damaged by Impact Loading." Magazine of Civil Engineering, 93, 134-146, 2020.

Jahami A., Temsah Y., Baalbaki O., Darwiche M., Al-Rawi Y., Al-Ilani M., Chaaban S. "Effect of Successive Impact Loads from a Drop Weight on a Reinforced Concrete Flat Slab." MATEC Web of Conferences, 281, 2019.

Chaaban S. "Effect of Concrete Creep on the Shortening of Vertical Elements in High-Rise Buildings." Proceedings of International Structural Engineering and Construction, 5(1), 2018.

8. Professional development activities

Diploma in Sustainability in the Built Environment 2025 from American University of Beirut

HECD Design Thinking Training October 2022 at Antonine University