

DR : Hanaa Gamal Mohammed

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Birth Date : 1986

Marital Status : Married

Place of Birth : Beni-Suef

- Doctor of philosophy in structural engineering, 2024, Faculty of Engineering- Minia University.
- Master of Science in Civil Engineering 2018 (Enhancement of punching shear behaviour of flat slab - Faculty of Engineering- Fayoum University.
- Bachelor of Civil Engineering 2008 (Very Good with Honors - Faculty of Engineering- Fayoum University).

Career Related Experience:

Teaching Assistant at Civil Engineering Department.

- Teaching assistant at Misr Science and Technology university in 6October, Cairo, civil engineering department.
From: 2008 to 2015.
- Teaching assistant at El-Nahda university in Beni-Suef, civil engineering department. From: 2015 to present.
- A member of Quality control in department, Nahda University. (April 2018- present).

SUMMARY OF TEACHING EXPERIENCE

I have a combination of hard and soft skills in 36 age that be able to make planning lessons for various age groups and providing instruction in the classroom. Also, I can interact with principals and other administrators to ensure the mission of the university and having a positive educational impact on the students.

I started my teaching career in 2008, I was involved in several undergraduate courses of the civil engineering curriculum at the Misr Science and Technology / El-Nahda University (Egypt). During my Master at Fayoum university and doctoral studies, at Minia university, I was charged with teaching a complete course dealing with the high-rise building , reinforced concrete design. irrigation works, and steel structures design. I continue to work on improving its delivery and student assessment tools and the online courses, so I can realize obviously the advantages and disadvantages of the online courses. Assist the university with their teaching duties, including preparation of course materials, mentoring students in need of help and proctoring examinations. Assist with class presentations, planning, grading quizzes, and preparing student evaluations. Communicate with students online and explain educational materials using various programs. Assist in preparing educational materials and tasks for students. Finally, I participated with the quality management unit as a coordinator for Teaching staff standard to apply the quality accreditation for Civil Engineering Programs at El-Nahda University.

COURSES

a) Taught at Civil engineering program- Misr Science and Technology / El-Nahda University, Egypt

- Reinforced Concrete Design (1) • Reinforced Concrete Design (2)
- Reinforced Concrete Design (3)

- Design of Steel Structures (1)
- Design of Steel Structures (2) • Environmental Engineering
- Water Resources Engineering
- Construction Management
- Concrete Technology
- Soil Mechanics
- Project Planning and Scheduling
- Building Materials and Construction Technology
- Irrigation and Drainage Engineering
- Construction Contracts and Law
- Civil drawing
- Design of High-Rise Buildings

RESEARCH

I was involved in research efforts in structural applications and flat slab punching shear failure. I have an experience in preparing the experimental programs and modeling the different loads on the structural elements.

RESEARCH INTEREST

I am interested in the punching shear failure in the column-flat slab connection, whether the slabs have openings or not, and with low thickness. The focus is on increasing the punching shear resistance using various types of reinforcement and studying them theoretically using finite element analysis software program (ANSYS). Additionally, there will be practical studies comparing the results of the codes with both practical and international codes outcome.

PUBLICATIONS

- 1) Fahmy, N. G., Mohammed, H. G., Abd el-Hafez, L. M., & Abouelezz, A. Y. (2023). Studying the Effects of Opening Size and Location on Punching Shear Resistance of Flat Slabs Using ANSYS V. 19. International Journal of Engineering Research in Africa, 67, 79-100, [doi:10.4028/p-IT6Xm6](https://doi.org/10.4028/p-IT6Xm6)
- 2) Mohammed, H. G., Abou Elezz, A. E. Y., Fahmy, N. G., & Abd el-Hafez, L. M. (2023). Studying the effects of shear studs on the punching shear resistance of thin flat slabs with edge column

connections and openings. Asian Journal of Civil Engineering, 1-19. [DOI https://doi.org/10.1007/s42107-023-00948-z](https://doi.org/10.1007/s42107-023-00948-z)

- 3) Mohamed, H. G., Gomaa, M. S., & Ahmed, A. E. S. Enhancement of punching shear strength of flat slab with internal post-tension cables. Al-Azhar University Civil Engineering Research Magazine (CERM) Vol. (40) No. (1) January, 2018.
- 4) Mohamed, H. G., Gomaa, M. S., & Ahmed, A. E. S. Enhancing Flat Slab's Punching Shear Resistance Using Post-Tensioned Cables. 6th Annual International Conference on Architecture and Civil Engineering (ACE 2018). [DOI: 10.5176/2301-394X_ACE18.144](https://doi.org/10.5176/2301-394X_ACE18.144)

Design and implementation engineer

- Design and implementation engineer for concrete structures at The engineering consulting office of (Dr. Abdelhamid Munged – Beni-

Suef).

From: 2008 to 2013

- Design and implementation engineer for concrete structures at the Office for Engineering Consultations (Dr/Khaled Mohammed - 6 October).

From: 2013 to 2015

- Design and implementation engineer for concrete structures at the Saadani Engineering Consultancy Office in Beni Suef (Eng/ Mahmoud Saadani – Beni-Suef).

From: 2015 to now

DUTIES & RESPONSIBILITIES:

- Engaged in various projects, including designing a residential complex, a government buildings, mosques, and residential buildings. Responsibilities extend to inventory management and summarizing tender comparisons. **Languages:**
- English: Very good.

Training Courses:

- ICDL.
- AutoCAD Software.
- ANSYS

- Sap2000 Software.
- SPSS.
- Endnote.
- Course of Ethics of Scientific Researcher.
- Course of Exam Systems and Evaluation of Students.

Personal Skills:

- Ability to work under stress.
- Flexible, Active, Accurate and Ambitious. □□ □ Interactive and Fast to Learn New Science. □□ □ Time Management.
- Decision Making.
- Trustworthy.