

## Curriculum Vitae (CV)

**Shymaa Mohammed Mukhtar Shawky**



### Personal Information:

**Academic Rank:** Assistant Professor

**Department:** Civil Engineering

**Specialization:** Structural Engineering

**Position:** Assistant Professor of structural Engineering at Higher Technological Institute

**Google Scholar:** <https://scholar.google.com.eg/citations?user=5pj8YQ4AAAAJ&hl=ar>

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## Education:

Degree	Discipline	Institution	Year
Ph.D.	Structural Engineering	Zagazig university	2012
M.Sc.	Structural Engineering	Zagazig university	2006
B.Sc.	Civil Engineering	Zagazig university	2000

## Academic Experience:

**Institution: HTI, 10<sup>th</sup> of Ramadan, EGYPT**

**Rank: Assistant Professor**

**Dates: 2012-present**

**Institution: HTI, 6<sup>th</sup> October City, EGYPT**

**Rank: Assistant Professor**

**Dates: 2012-2013**

**Institution: Engineering Higher Institute, Bilbes, EGYPT**

**Rank: Assistant Professor**

**Dates: 2013-2014**

**Institution: Culture and Science City, 6<sup>th</sup> October City, EGYPT**

**Rank: Assistant Professor**

**Dates: 2013-2016**

**Institution: International Academy for Engineering & Media Science- IAEMS,**

**6<sup>th</sup> October City, EGYPT**

**Rank: Assistant Professor**

**Dates: 2013- 2017**

**Institution: Giza Higher Institute of Engineering & Technology, Giza, Egypt**

**Rank: Assistant Professor**

**Dates: 2022- 2023**

### **Research interests:**

- Structural Engineering
- Material Engineering

### **Publications:**

- 1- “Effect of Alkali Activated Limestone-Silica Fume Blended Precursor on Performance Enhancement of Recycled Aggregate Concrete”, Case Studies in Construction Materials, (2023)
- 2- “Synthesis and applications of novel Schiff base derivatives as corrosion inhibitors and additives for improvement of reinforced concrete” Scientific Reports, (2023) 13, 15091
- 3- “Banana agriculture waste as eco-friendly material in fibre-reinforced concrete: An experimental study” Advances in Concrete Construction, Vol. 14, No. 5 (2022) 355-368

- 4- "Replacement efficiency of steel reinforcement with FRB bars in RC beams under flexure load: experimental and FE study" Innovative Infrastructure Solutions, Volume No. 7: 281, (2022).
- 5- "Banana Fiber Reinforced Concrete: A Review" New York Science Journal, 2021;14(1):48-57]
- 6- -"Improving the Properties of Concrete and Steel using the Organo-Silicon Compound" 6th International Conference on Corrosion Mitigation and Surface Protection Technologies December, 2018.
- 7- "Guar Gum Derivatives in petroleum Applications" 20th International Conference on Petroleum, Mineral Resources and Development 20-22 February, 2017.
- 8- "Enhancement of the Corrosion Resistance of Steel and Mortar Properties Using Carbon Nano-tubes", 5th International Conference on Corrosion Mitigation and Surface Protection Technologies 11-15 December, 2016.
- 9- "Behavior of pre-stressed simple and continuous partially composite steel- concrete beams" International journal of emerging technology and advanced engineering, volume 6, issue 4, April 2016.
- 10- "Effect of High Percentage of Sodium Chloride (NaCl) On the Behavior of Reinforced Concrete Beams", American Society of Civil Engineering 6th International Engineering and Construction Conference (IECC'6), Cairo, Egypt, June 28-30, 2010

## Certifications or Professional Registrations:

### Honors and Awards:

- **B.Sc. in Civil Engineering, Civil Engineering Department, Faculty of Engineering, Zagazig University, May 2000.**
- **M.Sc. in Civil Engineering, Structural Department, Faculty of Engineering, Zagazig University, 2006.**
- **Ph.D. in Civil Engineering, Materials Department, Faculty of Engineering, Zagazig University, 2012.**
- **National Authority for Quality Assurance and Accreditation of Education “NAQAAE” /Description of programs and courses for faculties and institutes of higher education.**
- **National Authority for Quality Assurance and Accreditation of Education “NAQAAE” / Teaching strategies for faculties and institutes of higher education.**
- **National Authority for Quality Assurance and Accreditation of Education “NAQAAE” /Exam systems and evaluation of learning outcomes for faculties and institutes of higher education.**

### Teaching Experience:

#### Courses taught

:

- **Structural analysis and mechanics (I),**
- **Structural analysis and mechanics (II),**
- **Structural analysis and mechanics (III),**
- **Structural analysis and mechanics (IV),**
- **Structural Maintenance.**
- **Properties and testing of materials (I)**
- **Properties and testing of materials (II),**
- **Properties and testing of materials (III)**