

ASMSS Y. Hamed (PHD, Associate Professor)



PERSONAL INFORMATION

- **Name:** Asmaa Yasseen Hamed
- **Current Address:** Aswan-Egypt
- **Current Position:** Associate Professor
- **College:** High Institute for Engineering and Technology Luxor
- **E-mail:** asmaa.yasseen1177@gmail.com & asmaa_yasseen@yahoo.com
- **PHONE (WhatsApp):** +201156689560

EDUCATIONAL BACKGROUND

- PhD, Civil/Structural Engineering, 2017, Faculty of Engineering, El-Minia University.
- MSc, Civil/Structural Engineering, 2012, Faculty of Engineering, El-Minia University.
- BSc, Civil Engineering, 2000, Faculty of Engineering, Aswan University.

Teaching Courses

UNDERGRADUATE COURSES	GRADUATE COURSES
<ul style="list-style-type: none">• Design of Structural Steel• Design of Metallic Bridges• Structure Analysis-I, and Structure Analysis-II• Advanced Structure □ Strength of Material.• Design of Reinforced Concrete Structure• Reinforced concrete & Steel structure Design. (Architecture Department)• Building Material. (Architecture Department)• Quantity surveying & Cost Control• Building Construction	<ul style="list-style-type: none">• Advanced Steel Structure• Design of Cold Formed Section

EMPLOYMENT HISTORY

- **Associate Professor** January 2025: Construction and Building Engineering Department, The High Institute of Engineering and Technology Luxor.
- **Adjunct Professor**, September 2018 to July 2021 (3Years), Structural Engineering Department El-Minia University. Engaged in teaching undergraduate and graduate students, Supervision of steel structures projects for 4th year students, and Supervision of master's theses (Fatma Abdel Naser (Discussed in 21-6-2025)).
- **Assistant Professor**, October 2017 to January 2025, Construction and Building Engineering Department, The High Institute of Engineering and Technology Luxor. Engaged in teaching undergraduate students, Supervision of steel structures projects for 4th year students and conducting scientific research.
- **Assistant Lecture**, September 2013 to September 2017, Construction and Building Engineering Department, The High Institute of Engineering and Technology Luxor.
- **Engineer and consultant** at the General Authority for Educational Buildings after graduating as one of the top graduates of Egyptian universities in 2001.

PEER-REVIEWED PUBLICATIONS

1. **Asmaa Y. Hamed**, S.A, Tohamy, A.M, Abdelhalim, A.B, Seddik. (2016) "Interactive shear buckling of corrugated webs". *Minia Journal of Engineering and Technology*, (MJET) Vol. 35, No 2
2. **Asmaa Y. Hamed**, A.B, Seddek. (2021) "A New Approach to Estimate the Shear Strength of Stiffened Plate Girder". *International Journal of Advances in Structural and Geotechnical Engineering*. ASGE Vol. 06 (01), pp. 68-77, 2022. <https://doi.org/10.21608/asge.2022.274839>.
3. Ahmed Attia M. Drar, Sedky A. Tohamy, Amr Elsayed, **Asmaa Y. Hamed**, Amr B. Saddek. (2021). "Finite Element Analysis of Flange Buckling Behavior of Plate Girders with Corrugated Webs" *International Conference on Advances in Structural and Geotechnical Engineering ICASGE'21 29-1 April 2021, Hurghada, Egypt*.
4. M.F. Hassanein, **Asmaa Y. Hamed**, Yong-Bo Shao, N. Silvestre (2023); "Confinement-based direct design of circular steel tube confined concrete (STCC) short columns". *Journal of Constructional Steel Research* 204 (2023) 107871. <https://doi.org/10.1016/j.jcsr.2023.107871>
5. M. F. Hassanein, **Asmaa Y. Hamed**, K.A. Cashell, Yong-Bo Shao (2023); "Confinement-Based Direct Design Method for Fibre Reinforced Polymer Confined CFST Short Columns". *Thin-Walled Structures* 192 (2023) 111207. <https://doi.org/10.1016/j.tws.2023.111207>
6. **Asmaa Y. Hamed**. (2023) "Elastic Shear Buckling of Tapered Steel Plate Girders with Opening in Web" *JES. Journal of Engineering Sciences*. Vol 51 (3). <https://doi.org/10.21608/JESAUN.2023.177464.1184>
7. Shao, Y.B., **Asmaa Y. Hamed**, Elsisy, A.R., Hadzima-Nyarko, M., Radu, D. and Hassanein, M.F., (2024), July. Confinement-based direct design of square normal and high strength steel tube confined concrete (STCC) short columns. In *Structures* (Vol. 65, p. 106705). Elsevier. <https://doi.org/10.1016/j.istruc.2024.106705>
8. Isleem HF, Qiong T, Chukka NDKR, Kumar R, Nagaraju TV, **Asmaa Y. Hamed**, (2024) "Machine learning and nonlinear finite element analysis of fiber-reinforced polymer confined concrete-steel double-skin tubular columns under axial compression". *Structural Concrete*. 2024. <https://doi.org/10.1002/suco.202300835>.
9. **Asmaa Y. Hamed**, M. F. Hassanein, Mohamed A. Hasan (2024); "Stress-Strain Modelling of Circular Concrete-filled FRP-Steel Composite Tube Columns under Axial Compression Load". *Structure* (Vol. (67), p. 107040). Elsevier. <https://doi.org/10.1016/j.istruc.2024.107040>
10. Xu, C., Zhang, Y., Isleem, H.F., Qiu, D., Zhang, Y., Alsaadawi, M.M., Tipu, R.K., El-Demerdash, W.E. and **Asmaa Y. Hamed**, (2024). Numerical and machine learning models for concentrically and eccentrically loaded CFST columns confined with FRP wraps. *Structural Concrete*, 22 September 2024 <https://doi.org/10.1002/suco.202400541>.
11. Sarra Sendjasni, Mohammed Berradia, **Asmaa Y. Hamed**, Riad Benzaid (2024); "Application of Random Forest Algorithm on the Prediction of the Axial Load-Carrying Capacity of Concrete Columns Strengthened with GFRP Bars". *4th International Symposium on Construction Management and Civil Engineering (ISCMCE- 2024)*, November 04-05, 2024, Skikda, Algeria
12. Yue, C., Isleem, H. F., Qader, D. N., Mahmoudian, A., Weiming, T., JANGIR, P., & **Asmaa Y. Hamed**. (2024, December). Utilization finite element and machine learning methods to investigation the axial compressive behavior of elliptical FRP-confined concrete columns. In *Structures* (Vol. 70, p. 107681). Elsevier, <https://doi.org/10.1016/j.istruc.2024.107681>
13. Wang, Y., Elmeligy, M.A., Isleem, H.F., **Asmaa Y. Hamed**, Qader, D.N., Sharaf, M., Jangir, P., Arpita and Tejani, G.G; (2025). "Modeling of concrete-filled PVC tube columns confined with CFRP strips under

- uniaxial eccentric compression: Machine learning and finite element approaches. Journal of Big Data, 12(1), p.34. <https://doi.org/10.1186/s40537-025-01134-5>
14. Amr B. Saddek; **Asmaa Y. Hamed**; Ahmed S. Tohamy; (2025). "Behavior of Stiffened Cold-Formed Steel Channel Sections Under Axial Compressive Force". Journal of Advanced Engineering Trends (JAET), 44(1), pp.307-314. [Doi:10.21608/jaet.2025.317364.1349](https://doi.org/10.21608/jaet.2025.317364.1349)
 15. **Asmaa Y. Hamed**. (2021)"Effect of web profile on the behaviour shear strength of plate girders with corrugated web." American journal of Engineering Research (AJER). Volume-10, Issue-01, pp-245-250.
 16. S.A. Toham, Afaf M. Abel Halim, Fatma Abdel Naser, **Asmaa Y. Hamed**, (2025). "Behavior of Tapered Plate Girder with Corrugated Webs Under Shear Load", Journal of Advanced Engineering Trends (JAET), 44(1), pp.65-80. [DOI: 10.21608/jaet.2025.307083.1295](https://doi.org/10.21608/jaet.2025.307083.1295)
 17. Haytham F. Isleem, **Asmaa Y. Hamed**, Naga Dheeraj Kumar Reddy Chukka, Nadhim Hamah Sor,; (2025). "Axial Compressive Behavior of Reinforced Concrete-Filled Circular Steel Tubular Columns: Finite Element and Machine Learning Modeling". Structural Concrete. DOI: 10.1002/suco.202400777 (Accepted)

Research Supervisor

- **The Master's Thesis are discussed:**
 - A master degree in Civil Engineering Department, Faculty of Engineering, El-Minia University, by **Eng. Fatma Abd-Elnaser. (Discussed 21-6-2025)**
- **The Master's Thesis are not discussed:**
 - A master degree in Civil Engineering Department, Faculty of Engineering, Assiut University, by **Eng. Ahmed Abdelkader.**
 - A master degree in Civil Engineering Department, Faculty of Engineering, Arab Academy for Science, Technology and Maritime Transport (AASTMT), by Eng. **Mahmoud Aboelhagag Saber.**

COMPUTER SKILLS

- AutoCAD
- Finite element software's ABAQUS
- SAP 2000
- MS Office
- SPSS
- Ansys Mechanical & Workbench

CONFERENCES:

- October 4-8, 2024, attended and presented a paper in the 11th International Conference on Civil and Environmental Engineering. Hurghada, Egypt. (ICCEE 2025)
- November 04-05, 2024, presented a paper in 4th International Symposium on Construction Management and Civil Engineering (ISCMCE- 2024), Skikda, Algeria. (Online Conference)
- June 16-18, 2021, attended and presented a paper in the 14th International Conference on Metal Structures, Poznan, Poland (Online Conference).
- March 15-18, 2021, attended and presented a paper in International Conference on Advances in Structural and Geotechnical Engineering ICASGE'21, Hurghada, Egypt.
- February 3 – 4, 2021, attended and presented a paper in the 2nd International Conference on Engineering, Science, and Technology (ICEST2021) | Luxor, Egypt.
- November 11-14, 2018, attended and presented a paper in the 11th International Conference on Civil and Environmental Engineering. Hurghada, Egypt. (ICCEE 2018).

