



## **EAST TEXAS A&M UNIVERSITY**

### **CURRICULUM VITAE**

#### **AYMAN ELZOHAIRY, PH.D., P.E.**

Associate Professor, Department of Engineering & Technology

East Texas A&M University, Commerce, TX 75429, USA.

Tel: 903.886.5474, Email: [Ayman.Elzohairy@etamu.edu](mailto:Ayman.Elzohairy@etamu.edu)

### **EDUCATION**

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#### **University of Missouri, Columbia, MO, USA**

08/2013 – 07/2018

Ph.D. in Structural Engineering

Department of Civil and Environmental Engineering

Dissertation title: “*Monotonic and Fatigue Assessment of Post-Tensioned Steel-Concrete Composite Beams*”

Advisor: Prof. Hani Salim

#### **Zagazig University, Zagazig, Egypt**

09/2005 – 04/2010

M.Sc. in Structural Engineering

Department of Structural Engineering

Thesis title: “*Strengthening of Continuous Composite Beams Using FRP*”

Advisors: Prof. Ashraf El-Shihy

#### **Zagazig University, Zagazig, Egypt**

09/1999 – 06/2004

B.Sc. in Civil Engineering

### **PROFESSIONAL EXPERIENCE**

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#### ***Academic:***

**Associate Professor**, Department of Engineering & Technology, East Texas A&M University, Commerce, TX, USA. 09/2024 – Present

**Assistant Professor**, Department of Engineering & Technology, Texas A&M University-Commerce, Commerce, TX, USA. 09/2019 – 08/2024

**Ad-Interim Assistant Professor**, Department of Engineering & Technology, Texas A&M University-Commerce, Commerce, TX, USA. 01/2019 – 5/2019

**Adjunct Instructor**, Department of Civil and Environmental Engineering, University of Missouri, Columbia, MO, USA. 08/2018 – 12/2018

**Graduate Research and Teaching Assistant**, Department of Civil Engineering, University of Missouri, Columbia, MO, USA. 08/2013 – 07/2018

**Lecturer**, Department of Structural Engineering, Zagazig University, Zagazig, Egypt. 05/2010 – 07/2013

**Graduate Research and Teaching Assistant**, Department of Structural Engineering, Zagazig University, Zagazig, Egypt. 03/2006 – 04/2010

***Industrial (Part-time):***

**ACE Arab Consulting Engineers**: Structural design (Residential Buildings design section) 06/2010 – 06/2012

**BCE-Behairy Consulting Engineering**: Structural design (High Rise Buildings and bridges design sections) 03/2007 – 08/2008

**PCE-Pyramids Consulting Engineering**: Structural design (High Rise Buildings and bridges section) 08/2004 – 08/2006

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## PROFESSIONAL MEMBERSHIPS AND CERTIFICATIONS

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I am a Professional Engineer (PE) with the Texas Board of Professional Engineers and Land Surveyors (PELS) since 3/10/2021.

Member of American Society of Civil Engineering (M.ASCE)

Member of The American Institute of Steel Construction (M.AISC)

Member of Structural Engineers Association of Texas (M.SEAO-T)

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## HONORS

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- INTERDISCIPLINARY RESEARCHERS OF THE YEAR 2022-2023: *"This award speaks well of my teaching at A&M-Commerce"*. Texas A&M University-Commerce. 2023
- PAUL W. BARRUS DISTINGUISHED FACULTY AWARD FOR TEACHING: *"This award speaks well of my teaching at A&M-Commerce"*. Texas A&M University-Commerce. 2023
- RESEARCH, SCHOLARSHIP, & CREATIVE ACTIVITY – “UNFETTERED THOUGHT” AWARD: *"This award speaks well of my research at A&M-Commerce"*. Texas A&M University-Commerce. 2022
- CHUCK ARIZE JUNIOR FACULTY AWARD HONOR: *"This award speaks well of my research, teaching, and service at A&M-Commerce"*. Texas A&M University-Commerce. 2020
- Zagazig University Honor for: *"Best M.Sc. in engineering and technology of advanced science"* 2011
- Egyptian Engineers Syndicate Honor:
  - \* Outstanding Engineers for Excellence in Engineering Education (M.Sc.) 2010
  - \* Outstanding Engineers for Excellence in Engineering Education (B.Sc.) 2004
- 5 State Awards for Outstanding Undergraduate Students, Egypt. 1999 - 2004

## PUBLICATIONS

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### Books

1. **El-Zohairy, A.** (2024). Modeling and Testing of Reinforced Concrete or Composite Structures Using Advanced New Materials. MDPI ISBN: 978-3-0365-9939-7. <https://doi.org/10.3390/books978-3-0365-9939-7>

### Journal Papers (\* corresponding author)

1. Ghalla, M., **El-Zohairy, E.\***, Bazuhair, R.W., Badawi, M., Iskander, Y., Elsamak, G. (2025) “Enhancing shear capacity and ductility of masonry infill walls with openings through steel-based strengthening techniques”, *Structures*, 82, 110738, <https://doi.org/10.1016/j.istruc.2025.110738>.
2. Zidan, A.; Shaaban, H.F.; **El-Zohairy, A.\*** (2025) Finite Element and Parametric Study on the Shear Capacity of FRP and Stainless-Steel Bolted Connectors in GFRP–Concrete Composite Beams. *J. Compos. Sci.*, 9, 622. <https://doi.org/10.3390/jcs9110622>
3. Elsamak, G., **El-Zohairy, A.\***, Badawi, M.A., Iskander, Y., Bazuhair, R.W., Ghalla, M. (2025). “Investigation of the structural performance of reinforced concrete long slender columns strengthened with stainless steel, galvanized steel, and aluminum sheets”. *Structures*, Volume 81, <https://doi.org/10.1016/j.istruc.2025.110210>
4. Sadeq, M.N.; Mohammad, H.K.; Allawi, A.A.; Al Zand, A.W.; Khalaf, M.R.; Al-Ahmed, A.H.A.; Ibrahim, T.H.; **El-Zohairy, A.** (2025). “Numerical Evaluation of Embedded I-Section Strengthening in Axially Loaded Composite Concrete-Filled Stainless Steel Tubes”. *J. Compos. Sci.* 2025, 9, 470. <https://doi.org/10.3390/jcs9090470>
5. Fahad Alsharari, **Ayman El-Zohairy**, and Hani Salim (2025). “Fatigue Performance of Externally Post-Tensioned Steel-Concrete Composite Girders. *Canadian Journal of Civil Engineering*. <https://doi.org/10.1139/cjce-2024-0599>
6. Salman, B.F., Allawi, A.A., and **El-Zohairy, A.\*** (2025). “Behavior of Axially Loaded Concrete Composite Columns Encased with GFRP and Steel I-Sections”. *Structural Concrete*. <https://doi.org/10.1002/suco.70249>
7. Fayed, S.; **El-Zohairy, A.\***; Salim, H.; Mlybary, E.A.; Bazuhair, R.W.; Ghalla, M. (2025) Shear Strength of Concrete Incorporating Recycled Optimized Concrete and Glass Waste Aggregates as Sustainable Construction Materials. *Buildings* 2025, 15, 1420. <https://doi.org/10.3390/buildings15091420>
8. Nawar, M.T.; **El-Zohairy, A.\***; Eisa, A.S.; Mohammed, A.; Gomaa, S. (2025) FE Parametric Study of Composite Cold-Formed Steel Beams Under Positive and Negative Loadings. *J. Compos. Sci.* 2025, 9, 209. <https://doi.org/10.3390/jcs9050209>
9. Fayed, S.; Ghalla, M.; **El-Zohairy, A.\***; Mlybary, E.A.; Bazuhair, R.W.; Emara, M. (2025) Construction Efficiency in Shear Strengthening of Pre-Cracked Reinforced Concrete Beams Using Steel Mesh Reinforced Strain Hardening Cementitious Composites. *Buildings* 2025, 15, 945. <https://doi.org/10.3390/buildings15060945>
10. Fayed, S.; **El-Zohairy, A.\***; Salim, H.; Mlybary, E.A.; Bazuhair, R.W.; Ghalla, M. (2025) Bearing Strength of Concrete Pedestals Partially Loaded at Early Ages: An Experimental Work Mitigating Failure Risk. *Buildings* 2025, 15, 1107. <https://doi.org/10.3390/buildings15071107>

11. Alasmari, H.A.; Sharaky, I.A.; Elamary, A.S.; **El-Zohairy, A.\*** (2025) The Effect of Industrial and Recycled Steel Fibers on the Behavior of Rubberized RC Columns Under Axial Loading. *Buildings* 2025, 15, 1616. <https://doi.org/10.3390/buildings15101616>
12. Elamary, A.S.; Sharaky, I.A.; Alharthi, F.M.; **El-Zohairy, A.\***; Mostafa, M.M.A. (2025) The Influence of Various Tensile and Shear Reinforcement Configurations on the Ultimate Capacity and Failure Mechanisms of Reinforced Concrete Beams. *Buildings* 2025, 15, 1396. <https://doi.org/10.3390/buildings15091396>
13. Ahmed, M.A.M.; Mohamed, H.A.; Hassan, H.; **El-Zohairy, A.\***; Emara, M. (2025) Numerical Analysis of the Cyclic Behavior of Reinforced Concrete Columns Incorporating Rubber. *J. Compos. Sci.* 2025, 9, 95. <https://doi.org/10.3390/jcs9030095>
14. **El-Zohairy, A.\***; Hamdy, O. (2025) Optimization and Prediction of the Mechanical Properties of Concrete with Crumb Rubber and Stainless-Steel Fibers Under Varying Temperatures. *Computation*, 13, 14. <https://doi.org/10.3390/computation13010014>
15. Alasmari, H.A.; Sharaky, I.A.; Elamary, A.S.; **El-Zohairy, A.\***. (2025) Rehabilitation and Strengthening of Damaged Reinforced Concrete Beams Using Carbon Fiber-Reinforced Polymer Laminates and High-Strength Concrete Integrating Recycled Tire Steel Fiber. *Fibers*, 13, 10. <https://doi.org/10.3390/fib13010010>
16. Saad, I.M.; Mohamed, H.A.; Emara, M.; **El-Zohairy, A.\***; El-Beshlawy, S. (2024) “Finite Element Modeling and Analysis of RC Shear Walls with Cutting-Out Openings”. *Modelling*, 5, 1314-1338. <https://doi.org/10.3390/modelling5030068>
17. Nawar, M.T.; Selim, M.; Zaghlal, M.; **El-Zohairy, A.\***; Emara, M. (2024) “Performance of GFRP-Confined Rubberized Engineered Cementitious Composite Columns”. *J. Compos. Sci.*, 8, 330. <https://doi.org/10.3390/jcs8080330>
18. Nawar, M.T.; **El-Zohairy, A.\***; El-Sisi, A.; Salim, H.; Aldoshan, A.A. (2024) “Blast Wave Simulator for Laminated Glass Panels Experimental Evaluation”. *CivilEng*, 5, 576-590. <https://doi.org/10.3390/civileng5030031>
19. Nawar, M.T.; **El-Zohairy, A.\***; Alaaser, A.G.; Hamdy, O. (2024) “Finite Element Analysis and Optimization of the Rotational Stiffness of Semi-Rigid Base Connection under Simultaneous Moment and Tension”. *Buildings*, 14, 2166. <https://doi.org/10.3390/buildings14072166>
20. Said, A.I.; Hussien, Y.J.; Mohammed, M.H.; Allawi, A.A.; Ibrahim, T.H.; **El-Zohairy, A.\***; Abdelbaset, A.M. (2024) “Experimental and FE Investigations of Backfill Cover on Large-Diameter GRP Pipes”. *CivilEng*, 5, 646-672. <https://doi.org/10.3390/civileng5030035>
21. Abdo, A.; **El-Zohairy, A.\***; Alashker, Y.; Badran, M.A.E.-A.; Ahmed, S. (2024) “Effect of Treated/Untreated Recycled Aggregate Concrete: Structural Behavior of RC Beams”. *Sustainability*, 16, 4039. <https://doi.org/10.3390/su16104039>
22. Edris, W.F.; Elbialy, S.; **El-Zohairy, A.\***; Soliman, A.M.; Shawky, S.M.M.; Selouma, T.I.; Al Sayed, A.A.-K.A. (2024) “Examining Mechanical Property Differences in Concrete with Natural and Synthetic Fiber Additives”. *J. Compos. Sci.*, 8, 167. <https://doi.org/10.3390/jcs8050167>
23. Nawar, M.T.; Eisa, A.S.; Elshazli, M.T.; Ibrahim, Y.E.; **El-Zohairy, A.\*** (2024) “Numerical Analysis of Rubberized Steel Fiber Reinforced Concrete Beams Subjected to Static and Blast Loadings” *Infrastructures*, 9, 52. <https://doi.org/10.3390/infrastructures9030052>

24. Al-Tameemi, S.K.A., Al-hasany, E.G., Mohammad, H.K., Jabir, H.A., Ibrahim, T.H., Allawi, A.A., **El-Zohairy, A.\*** (2024) "Simulation and Design Model for Reinforced Concrete Slabs with Lacing Systems" *Advances in Structural Engineering*, 27(5). <https://doi.org/10.1177/13694332241237576>

25. Nawar, M.T., Matar, E., **El-Zohairy, A.\***, Alaaser, A., and Maaly, H. (2024) "Experimental and FE Analysis of the Rotational Stiffness of Semi-Rigid Steel Column Base". *Structures*, 62. <https://doi.org/10.1016/j.istruc.2024.106164>

26. **El-Zohairy, A.\***; Salim, H.; Shaaban, H.; Nawar, M.T. (2024) Fatigue Characteristics of Steel–Concrete Composite Beams. *Infrastructures*, 9, 29. <https://doi.org/10.3390/infrastructures9020029>

27. Ali, M.I.; Allawi, A.A.; **El-Zohairy, A.\*** (2024) Flexural Behavior of Pultruded GFRP–Concrete Composite Beams Strengthened with GFRP Stiffeners. *Fibers*, 12, 7. <https://doi.org/10.3390/fib12010007>

28. Tahoon, D.; **El-Zohairy, A.\***; Hendawy, H.I.I. (2024) Cost Impact Comparative Analysis via BIM between Heritage Regular Maintenance Projects and Long-Term Restoration Projects—A Case Study. *Heritage*, 7, 50-74. <https://doi.org/10.3390/heritage7010002>

29. Nawar, M.T.; **El-Zohairy, A.\***; Arafa, I.T. (2023) Finite Element Modeling and Analysis of Perforated Steel Members under Blast Loading. *Modelling*, 4, 628-649. <https://doi.org/10.3390/modelling4040036>

30. Salem, T.N.; **El-Zohairy, A.\***; Abdelbaset, A.M. (2023) The Static and Dynamic Behavior of Steel Storage Tanks over Different Types of Clay Soil. *CivilEng*, 4, 1169-1181. <https://doi.org/10.3390/civileng4040064>

31. Emara, M.; Salem, M.A.; Mohamed, H.A.; Shehab, H.A.; **El-Zohairy, A.\*** (2023) Shear Strengthening of Reinforced Concrete Beams Using Engineered Cementitious Composites and Carbon Fiber-Reinforced Polymer Sheets. *Fibers*, 11, 98. <https://doi.org/10.3390/fib11110098>

32. Ibrahim, T.H., Allawi, A.A., Oukaili, N.K., **El-Zohairy, A.\*** (2023) "Theoretical Analysis of Composite RC Beams with Pultruded GFRP Beams Subjected to Impact Loading" *Journal of Engineering, Technology & Applied Science Research*, 13(6), 12097-12107. <https://doi.org/10.48084/etasr.6424>

33. Allawi, A.A, Chai, H.K., Majeed, A.A., **El-Zohairy, A.\***, Al-Sherrawi, M.H., Edaan, E.M., and Ibrahim, T.H. (2023). "Experimental and FE Analysis of Reinforced Concrete Multi-cell Box Girders Retrofitted with Carbon Fiber Reinforced Polymer Strips under Torsion" *Journal of Advances in Structural Engineering*, 26(14). <https://doi.org/10.1177/13694332231196511>

34. Mohammed, S.D.; Ibrahim, T.H.; Salman, B.F.; Allawi, A.A.; **El-Zohairy, A.\*** (2023) Structural Behavior of Reactive Powder Concrete under Harmonic Loading. *Buildings*, 13, 1917. <https://doi.org/10.3390/buildings13081917>

35. Mahmood, E.M.; Ibrahim, T.H.; Allawi, A.A.; **El-Zohairy, A.\*** (2023) Experimental and Numerical Behavior of Encased Pultruded GFRP Beams under Elevated and Ambient Temperatures. *Fire*, 6, 212. <https://doi.org/10.3390/fire6050212>

36. **El-Zohairy, A.\***; Mustafa, S.; Shaaban, H.; Salim, H.; Allawi, A.A. (2023) Numerical Modeling and Analysis of Strengthened Steel–Concrete Composite Beams in Sagging and Hogging Moment Regions. *CivilEng*, 4, 483-505. <https://doi.org/10.3390/civileng4020028>

37. Nawar, M.T.; **El-Zohairy, A.\***; Maaly, H.M.; Husain, M.; Salama, I.; Mousa, E. (2023) Prestressed Steel-Concrete Composite I-Beams with Single and Double Corrugated Web. *Buildings*, 13, 647. <https://doi.org/10.3390/buildings13030647>

38. Ahmed, S.; **El-Zohairy, A.\***; Eisa, A.S.; Mohamed, M.A.E.-A.B.; Abdo, A. (2023) Experimental Investigation of Self-Compacting Concrete with Recycled Concrete Aggregate. *Buildings*, 13, 856. <https://doi.org/10.3390/buildings13040856>

39. **El-Zohairy, A.**, Sanchez, M., Abediniangerabi, B., and Moler, P. (2023) "Performance of Rubberized Concrete and the Effect of Temperature and Stainless-steel Fibers" *Buildings Journal*, 13(2), 280. <https://doi.org/10.3390/buildings13020280>

40. Ibrahim TH, Allawi AA, **El-Zohairy A.\*** (2023) "Experimental and FE analysis of composite RC beams with encased pultruded GFRP I-beam under static loads" *Advances in Structural Engineering*, 26(3): 516–532 <https://doi.org/10.1177/13694332221130795>

41. Abbas A. Allawi, Arshad Nadhom Shubber, Mohanned Al Gharawi, **Ayman El-Zohairy\***, Teghreed H. Ibrahim, Ali Hussein Ali Al-Ahmed, and Ibrahim T. Arafa (2023). "Enhancement of RC T-beams Toughness using Laced Stirrups Reinforcement for Blast Response Predictions" *Journal of Structural Concrete*, 24(3), 3839-3856. <https://doi.org/10.1002/suco.202200894>

42. Emara, M.; **El-Zohairy, A.\***; Fekry, M.; Husain, M. (2022) "Effect of Using ECC Layer on the Flexural Performance of RC Beams Previously Strengthened with EB CFRP Laminates" *Sustainability* 2022, 14, 16990. <https://doi.org/10.3390/su142416990>

43. Mahmood, E.M.; Allawi, A.A.; **El-Zohairy, A.\*** (2022) "Analysis and Residual Behavior of Encased Pultruded GFRP I-Beam under Fire Loading" *Sustainability*, 14, 13337. <https://doi.org/10.3390/su142013337>

44. Nawar, M.T.; Kaka, M.E.; **El-Zohairy, A.\***; Elhosseiny, O.; Arafa, I.T. (2022) "Effect of Supporting Base System on the Flexural Behavior and Toughness of the Lighting GFRP Poles" *Sustainability*, 14, 12614. <https://doi.org/10.3390/su141912614>

45. Mahmood, E.M.; Allawi, A.A.; **El-Zohairy, A.\*** (2022) "Flexural Performance of Encased Pultruded GFRP I-Beam with High Strength Concrete under Static Loading" *Materials Journal*, 15, 4519. <https://doi.org/10.3390/ma15134519>

46. Al-Khafaji, A., **El-Zohairy, A.\***, Mustafic, M., and Salim, H. (2022) "Environmental Impact on the Behavior of CFRP Sheet Attached to Concrete" *Buildings Journal*, 12(7), 873; <https://doi.org/10.3390/buildings12070873>.

47. Al-Ahmed, A. H. A., Al-Rumaithi, A., Allawi, A. A., and **El-Zohairy, A.\*** (2022). "Mesoscale Analysis of Fiber-Reinforced Concrete Beams" *Journal of Engineering Structures*, 266. <https://doi.org/10.1016/j.engstruct.2022.114575>

48. Al-Ahmed, A.H.A.; Ibrahim F.H., Allawi, A.A.; and **El-Zohairy, A.\*** (2022) "Behavior of One-Way Reinforced Concrete Slabs with Polystyrene Embedded Arched Blocks" *Journal of Buildings*, 12(3), 331. <https://doi.org/10.3390/buildings12030331>

49. Ibrahim, T. H., Allawi, A. A., **El-Zohairy, A.\*** (2022). "Impact behavior of Composite Reinforced Concrete Beams with Pultruded GFRP I-Beam" *Journal of Materials*, 15(2), <https://doi.org/10.3390/ma15020441>

50. **El-Zohairy, A.\***, Fahad Alsharari, Hani Salim, Ibrahim T. Arafa, and Mahmoud T. Nawar (2022). Monotonic property of steel–RC composite beams strengthened with externally pre-stressed tendons. *Canadian Journal of Civil Engineering*. 49(7): 1173-1183. <https://doi.org/10.1139/cjce-2021-0237>

51. **El-Zohairy, A.\***, Salim, H., and Shaaban, H. (2022). "Experimental Investigation on Fatigue Behavior of Steel-Concrete Composite Beams with Different Shear Connection Arrangements" *Journal of Structure*, 35, 146-159. <https://doi.org/10.1016/j.istruc.2021.11.005>

52. Alsharari, F.; El-Sisi, A.E.-D.; Mutnbak, M.; Salim, H.; **El-Zohairy, A.** (2022) Effect of the Progressive Failure of Shear Connectors on the Behavior of Steel-Reinforced Concrete Composite Girders. *Buildings*, 12, 596. <https://doi.org/10.3390/buildings12050596>

53. Alsharari, F.; **El-Zohairy, A.**; Salim, H.; and El-Sisi, A. (2021). "Numerical Investigation of the Monotonic Behavior of Strengthened Steel-Concrete Composite Girders" *Journal of Engineering Structures*, 246, 113081. <https://doi.org/10.1016/j.engstruct.2021.113081>

54. Nawar, M.; Arafa, I.; Elhosseiny, O.; and **El-Zohairy, A.\*** (2021) "Full Static Resistance of Castellated Steel Beams with Hexagonal Web Openings for Blast Response Predictions" *Engineering Structures*. <https://doi.org/10.1016/j.engstruct.2021.112844>

55. Tran, D.; Allawi, A.A.; Albayati, A.; Cao, T.; **El-Zohairy A.\***, Nguyen Y. (2021) "Recycled Aggregate for Medium Quality Concrete: Mechanical and Durability-Related Properties" *Materials*, 14, 4612. <https://doi.org/10.3390/ma14164612>.

56. Nawar, M.; Matar, E.; Maaly, H.; Alaaser, A.; and **El-Zohairy, A.\*** (2021) "Assessment of Rotational Stiffness for Metallic Hinged Base Plates under Axial Loads and Moments" *Buildings*, 11(8), 368. [doi.org/10.3390/buildings11080368](https://doi.org/10.3390/buildings11080368)

57. Khalaf, M.R.; Al-Ahmed, A.H.A.; Allawi, A.A.; **El-Zohairy, A.\*** (2021) "Strengthening of Continuous Reinforced Concrete Deep Beams with Large Openings Using CFRP Strips" *Materials*, 14, 3119. <https://doi.org/10.3390/ma14113119>

58. Alsharari, F., **El-Zohairy, A.**, Salim, H., and El-Sisi, A. (2021). "Pre-Damage Effect on the Residual Behavior of Externally Post-tensioned Fatigued Steel-Concrete Composite Beams" *Journal of Structures*, 32C, P. 578-587. <https://doi.org/10.1016/j.istruc.2021.02.064>

59. **El-Zohairy, A.\***, Hammontree, H., Oh E., and Moler, P. (2020). "Temperature Effect on the Compressive Behavior and Constitutive Model of Plain Hardened Concrete" *Journal of Materials*, 13(12). <https://doi.org/10.3390/ma13122801>.

60. **El-Zohairy, A.\***, Alsharari, F., and Salim, H. (2020). "Analytical Model and Parametric Study for Static Flexural Behavior of Externally Post-tensioned Steel-RC Composite Girders" *Journal of Structures*, 27. <https://doi.org/10.1016/j.istruc.2020.05.060>.

61. **El-Zohairy, A.**, Salim, H., and Saucier, A. (2019). "Fatigue tests on steel-concrete composite beams subjected to sagging moments" *Journal of Structure Engineering*, 145(5). [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002326](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002326)

62. **El-Zohairy, A.**, Salim, H., and Saucier, A. (2019). "Steel-Concrete Composite Beams Strengthened with Externally Post-Tensioned Tendons under Fatigue" *Journal of Bridge Engineering*, 24(5). [https://doi.org/10.1061/\(ASCE\)BE.1943-5592.0001390](https://doi.org/10.1061/(ASCE)BE.1943-5592.0001390)

63. Al-Sherrawi, M., Allawi, A. A., AL-Bayati, B., Al Gharawi, M., and **El-Zohairy, A.** (2018). "Behavior of Precast Prestressed Concrete Segmental Beams" *Civil Engineering Journal*, 4 (3): 488-496. DOI: 10.28991/cej-0309109

64. **El-Zohairy, A.**, Salim, H., Shaaban, H., Mustafa, S., and Shihy, A. (2018). "FE Analysis and Parametric Study of Continuous Steel-Concrete Composite Beams Stiffened with Post-tensioned Tendons" *Journal of Advances in Structural Engineering*, 21(6): 933-945 DOI: 10.1177/1369433217732495

65. **El-Zohairy, A.**, Salim, H., Fawzy, H., Mustafa, S., and El-Shihy, A. (2017). "Experimental and FE Parametric Study on Continuous Steel-Concrete Composite Beams Strengthened with CFRP Laminates" *Journal of Construction & Building Materials*, 157: 885-898. <https://doi.org/10.1016/j.conbuildmat.2017.09.148>

66. **El-Zohairy, A.**, and Salim, H. (2017). "Parametric Study for Post-Tensioned Composite Beams with External Tendons" *Journal of Advances in Structural Engineering*, 20 (10): 1433-1450. DOI: 10.1177/1369433216684352

67. **El-Zohairy, A.**, Salim, H., Fawzy, H., Mustafa, S., and El-Shihy, A. (2015). "Finite Element Modeling of Externally Post-Tensioned Composite Beams" *Journal of Bridge Engineering (ASCE)*, 20 (12). DOI: 10.1061/(ASCE)BE.1943-5592.0000756

68. El-Shihy A. M., Fawzy H. M., Mustafa S. A. A., **El-Zohairy A. A.** (2010). "Experimental and Numerical Analysis of Composite Beams Strengthened with CFRP Laminates in Hogging Moment Region" *Journal of Steel and Composite Structures*, 10 (3): 439-453. <https://doi.org/10.12989/scs.2010.10.3.281>

## Conference Proceedings

1. Ayman El-Zohairy, Perry Moler, and Mahmoud T. Nawar (2026). "Mechanical Properties of Concrete with Recycled Concrete Aggregate for Sustainable Construction". 3rd International Conference on Sustainability: DEVELOPMENTS & INNOVATIONS, Prince Sultan University (PSU), Riyadh 11586 Saudi Arabia, February 8-12, 2026.
2. Ibrahim, T.H., Allawi, A.A., El-Zohairy, A. (2025). Encased Pultruded I-GFRP Beam under Impact Loading. SEI Structures Congress, from April 09, 2025 to April 11, 2025 in Phoenix, AZ. <https://doi.org/10.1061/9780784486085.005>
3. Elshazli, M.T., Nawar, M.T., and El-Zohairy, A. (2025). Analysis of Rubberized RC Beams under Blast Loading. SEI Structures Congress, from April 09, 2025 to April 11, 2025 in Phoenix, AZ. <https://doi.org/10.1061/9780784486085.007>
4. El-Zohairy, A., Moler, P., Nawar, M.T. (2025). Effect of Stainless-Steel Fibers on Rubberized Concrete. In: Mansour, Y., Subramaniam, U., Mustaffa, Z., Abdelhadi, A., Ezzat, M., Abowardah, E. (eds) Proceedings of the ICSDI 2024 Volume 1. ICSDI 2024. Lecture Notes in Civil Engineering, vol 556. Springer, Singapore. [https://doi.org/10.1007/978-981-97-8712-8\\_3](https://doi.org/10.1007/978-981-97-8712-8_3)
5. McGarry M. and El-Zohairy, A.\* (2023). "Analytical Model and Analysis of Post-tensioned Continuous Composite Beams" Structures Congress (ASCE), New Orleans, LA, May 3-6. <https://doi.org/10.1061/9780784484777.009>
6. Van M. and El-Zohairy, A.\* (2022). "Stainless Steel-Concrete Composite Beams Strengthened with External Tendons" Structures Congress (ASCE), Atlanta, GA, April 20-23. <https://doi.org/10.1061/9780784484180.016>
7. Allawi, A.A., Said, A.I., Al-Sherrawi, M.H., Albayati, A., Al Gharawi, M., El-Zohairy, A. (2022). Evaluation of Live Load Distribution Factors of a Highway Bridge. In: Karkush, M.O., Choudhury, D. (eds) Geotechnical Engineering and Sustainable Construction. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6277-5\\_43](https://doi.org/10.1007/978-981-16-6277-5_43)
8. El-Zohairy, A.\*, Alsharari, F., Salim, H., Mostafa, S., and Shaaban, H. (2020). "Fatigued Composite Beam with Different Shear Connection Arrangement" Structures Congress (ASCE), St Louis, MO, April 5-8. <https://doi.org/10.1061/9780784482896.013>
9. Alsharari, F., El-Zohairy, A., Salim, H., and Mutnbak, M. (2020). "Fatigue Testing of Post-Tensioned Steel-Concrete Composite Beams" Structures Congress (ASCE), St Louis, MO, April 5-8. <https://doi.org/10.1061/9780784482896.014>
10. El-Zohairy, A., Salim, H., and Saucier, A. (2019). "Effect of Externally Post-Tensioned Tendons on the Fatigue Behavior of Steel-Concrete Composite Beams" Structures Congress (ASCE), Orlando, FL, April 25-27. <https://doi.org/10.1061/9780784482230.002>
11. El-Zohairy, A., Salim, H., and Saucier, A. (2019). "Experimental Study on Fatigue Performance of Steel-concrete Composite Girders" SEM Annual Conference, June 4-7, 2018, Greenville, SC. DOI.org/10.1007/978-3-319-95879-8\_13
12. Al-Sherrawi, M., Allawi, A. A., AL-Bayati, B., Al Gharawi, M., and El-Zohairy, A.\* (2019). "Experimental Investigation of Segmental Post-tensioned Girders" SEM Annual Conference, June 4-7, 2018, Greenville, SC. DOI: 10.1007/978-3-319-95053-2\_12

13. Allawi, A. A., AlBayati, A., Al Gharawi, M., and **El-Zohairy, A.\* (2019)**. "Experimental and Numerical Evaluations of Live Load Distributions of Steel-Concrete Composite Bridge" *SEM Annual Conference, June 4-7, 2018, Greenville, SC*. DOI: 10.1007/978-3-319-95053-2\_13
14. Allawi, A. A., Al-Sherrawi, M., Al Gharawi, M., and **El-Zohairy, A.\* (2019)**. "A Case Study to Evaluate Live Load Distributions for Pre-stressed RC Bridge" *SEM Annual Conference, June 4-7, 2018, Greenville, SC*. DOI: 10.1007/978-3-319-95053-2\_11
15. **El-Zohairy, A.** and Salim, H. (2017). "Numerical Analysis of Steel-Concrete Composite Beams Strengthened with Pre-stressed CFRP Plates" *American Society for Composites (ASC) 32nd Annual Technical Conference, October 23-25*.
16. **El-Zohairy, A.**, Salim, H., Fawzy, H., Mustafa, S., and Shihy, A. (2017). "Behavior of Continuous Steel-Concrete Composite Beams Reinforced with CFRP sheets" *American Society for Composites (ASC) 32nd Annual Technical Conference, October 23-25*.
17. **El-Zohairy, A.** and Salim, H. (2017). "Behavior of Post-tensioned Steel-Concrete Composite Beams Subjected to Hogging Moments" *American Society for Composites (ASC) 32nd Annual Technical Conference, October 23-25*.
18. **El-Zohairy, A.**, and Salim, H. (2017). "Behavior of Steel-Concrete Composite Beams under Fatigue Loads" *Conference and Exposition on Experimental and Applied Mechanics, Indianapolis, IN, June 12-15*. DOI 10.1007/978-3-319-62831-8\_14
19. **El-Zohairy, A.**, and Salim, H., Shaaban, H., Mostafa S. (2017). "Continuous Composite Beams Stiffened with CFRP Sheet at the Hogging Moment Region" *Conference and Exposition on Experimental and Applied Mechanics, Indianapolis, IN, June 12-15*. DOI 10.1007/978-3-319-63552-1\_7
20. **El-Zohairy, A.**, and Salim, H. (2017). "Parametric Study of External Strengthening of Composite Beams using Post-Tensioned Tendons" *Structures Congress (ASCE), Denver, CO, April 6-8, 58-67*. <https://doi.org/10.1061/9780784480403.006>

#### *Conference Presentations/Posters/Judge/Competition*

1. Juan Hernandez and **El-Zohairy, A.** (2024). "Shear Strength of Reinforced Concrete Beams with Recycled Concrete Aggregate", Annual Research Symposium at A&M-Commerce, April 17th. (**Poster**)
2. Sanchez, M. and **El-Zohairy, A.** (2023). "Effect of Rubber on Mechanical Properties of Concrete", Annual Research Symposium at A&M-Commerce, April 11th. (**Poster**)
3. Miller, J. and **El-Zohairy, A.** (2023). "Effect of Temperature and Stainless-steel Fibers on the Performance of Rubberized Concrete", 18th Annual Pathways Student Research Symposium. *Texas A&M University-Galveston, Galveston, TX, March 2-3*. (**Poster**)
4. TEXO Foundation student competition, Hurst, TX, February 20, 2023. (**Team Coach**)
5. Fall 2022 ACI Previous Concrete Cylinder Competition, Dallas, TX, 10/23/2022. (**Faculty Advisor**).
6. TEXO Foundation student competition, Irving Convention Center, Irving, TX, February 21, 2022. (**Team Coach**)
7. **El-Zohairy, A.** (2022). Annual Research Symposium A&M-Commerce, Texas A&M University-Commerce, April 19th. (**Judge**)
8. Villanueva, C. and **El-Zohairy, A.** (2022). "Mechanical Properties of Concrete with Recycled Coarse Aggregate", 17th Annual Pathways Student Research Symposium. *Texas A&M University, College Station, TX, March 3-4*. (**Poster**)
9. McGarry M. and **El-Zohairy, A.** (2022). "Compressive Strength of Concrete under Elevated Temperatures", Annual Research Symposium at A&M-Commerce, April 19th. (**Poster**)

10. **El-Zohairy, A.** (2021). Virtual Federation Research Symposium. Texas A&M University-Commerce, April 9th. (Judge)
11. **El-Zohairy, A.** (2019). 16th Annual Pathways Student Research Symposium. *Texas A&M International University, Laredo, TX, November 7-8.* (Judge)
12. **El-Zohairy, A.**, and Salim, H. (2017). "Steel-Concrete Composite Beams Subjected to Fatigue Loads" *Diverse Engineering Professionals Conference, Columbia, MO, October 7.* (Poster)
13. **El-Zohairy, A.**, and Salim, H. (2015). "Fatigue Analysis of Composite Beams Strengthened with Externally Post-Tensioned Tendons" *Mid-Continent Transportation Research Symposium, Ames, IA, August 19–20 (poster).*
14. **El-Zohairy, A.**, and Salim, H. (2015). "Analysis of Composite Beams Strengthened with Externally Post-tensioned Tendons" *1st Annual Missouri Bridge Conference, Columbia, MO, April 9 (poster).*

## PROPOSALS/GRANTS

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- 1- **(Co-PI)** *Automating Geomaterials for Smarter Pavement Construction*, 2025 TEES Annual Research Conference – 05/20-21/2025 (\$7,500) (granted).
- 2- **(PI)** *MRI: Acquisition of 3D CONCRETE PRINTING ROBOT CELL for research and education in STEM fields at a primarily undergraduate institution*, National Science Foundation NSF - \$133,140.00 – (Fall 2024) (Not selected).
- 3- **(Co-PI)** *Sustainability and life-cycle analysis for recycling materials in construction*, 2024 TEES Annual Research Conference – 05/20-21/2024 (\$7,500) (granted).
- 4- **(PI)** *Evaluation of the Mechanical Properties of Concrete with Straw and Straw Ash*, Texas A&M University-Commerce Undergraduate Grant Program – 11/2023 (\$500) (granted).
- 5- **(PI)** *Developing a Performance-Based Concrete Overlay Mix Design for Improved Resistance to Early-Age Cracking and Increased Durability*, Texas Department of Transportation (TxDOT) - 03/6/2023 (\$297,914) (Not selected).
- 6- **(PI)** *Evaluation of Nanomaterials in Concrete for Improved Strength*, Texas A&M University-Commerce Undergraduate Grant Program – 10/2022 (\$500) (granted).
- 7- **(PI)** *Evaluate Nanomaterials in Concrete for Improved Durability*, Texas Department of Transportation (TxDOT) - 03/8/2022 (\$357,518) (NOT selected).
- 8- **(Co-PI)** *MRI: Acquisition of a desktop scanning electron microscope (SEM) for research and education in STEM fields at a primarily undergraduate institution*, National Science Foundation NSF – 01/18/2022 (\$144,300) (granted).
- 9- **(PI)** *Mechanical Properties of Recycled Concrete Aggregate for Medium-Quality Structural Concrete*, Texas A&M University-Commerce Undergraduate Grant Program – 11/2021 (\$500) (granted).
- 10- **(PI)** *Smart Health Monitoring Technique for Texas Pipeline System under Soil Movement and Natural Disasters*, 2021 Virtual TEES Annual Research Conference – 05/18/2021 (\$5000) (granted).
- 11- **(PI)** *Investigate Live Load Distribution and Stability of Prestressed Concrete Girders during Construction*, Texas Department of Transportation (TxDOT) - 03/10/2021 (\$45,000) (NOT selected).
- 12- **(PI)** *Mechanical Properties of Rubberized Concrete under Various Environmental Effects*, Texas A&M University-Commerce Undergraduate Grant Program – 11/2020 (\$500) (granted).

## RESEARCH PROJECTS

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**1- Evaluation of the Mechanical Properties of Concrete with Straw and Straw Ash.** Engineering and Technology Department, Texas A&M University-Commerce, Commerce, TX, USA. Sponsored by Undergraduate Grant Program, Texas A&M University-Commerce. 11/2023 – present

**2- Mechanical Properties of Recycled Concrete Aggregate for Medium-Quality Structural Concrete.** Engineering and Technology Department, Texas A&M University-Commerce, Commerce, TX, USA. Sponsored by Undergraduate Grant Program, Texas A&M University-Commerce. 11/2021 – present

**3- Analytical and FE Modeling of Steel-Concrete Composite Beams at the Sagging and Hogging Moment Regions.** Engineering and Technology Department, Texas A&M University-Commerce, Commerce, TX, USA. Sponsored by Texas A&M University-Commerce. 11/2019 – 06/2022

**4- Rubberized High Strength Concrete (HSC) Strengthen with Stainless Steel Fibers.** Engineering and Technology Department, Texas A&M University-Commerce, Commerce, TX, USA. Sponsored by Undergraduate Grant Program, Texas A&M University-Commerce. 10/2020 – 05/2021

**5- The Influence of Temperature on the Characteristic Compressive Strength and Constitutive Model of Plain Hardened Concrete.** 11/2019 – 06/2020  
Engineering and Technology Department, Texas A&M University-Commerce, Commerce, TX, USA. Sponsored by Texas A&M University-Commerce.

**6- Effect of External Post-Tensioning on Fatigue Life of Shear Connectors in Steel-Concrete Composite Beams** 03/2014 – 05/2021  
Civil and Environmental Engineering Department, University of Missouri, Columbia, MO, USA. Sponsored by the Egyptian Cultural and Educational Bureau, DeLong's Inc., and Coreslab Structures Inc.

**7- Experimental Investigation of Precast Prestressed Reinforced Concrete Segmental Beams** 03/2015 – 10/2017  
Civil Engineering Department, University of Baghdad, Baghdad, Iraq. Sponsored by the University of Baghdad and Hammurabi Contracting Company.

**8- Strengthening of Steel-Concrete Composite Beams with CFRP Laminates at Hogging Moment Regions** 04/2008 – 03/2009  
Department of Structural Engineering, Zagazig University, Zagazig, Egypt. Sponsored by Zagazig University and Sika Egypt.

## STUDENT RESEARCH SUPERVISION

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- ✓ Thesis for Juan Hernandez “A Comparative Analysis of Buildings in the United States and Mexico: Structure of Buildings, Materials Used, and the Reason for Each” Honors College, Texas A&M University-Commerce – 2023 to present (In progress)
- ✓ Ph. D. dissertation supervision with Prof. Abbas Allawi. “Behavior of Reinforced Concrete Composite Columns with GFRP I-Section” University of Baghdad, Baghdad, Iraq. Name of Student: Ban Fadhl Salman. -2024 to 2025.
- ✓ MSc thesis supervision with Prof. Hesham Fawzy. “Steel-Concrete Composite Beams under the Effect of Impact Loading” Zagazig University, Zagazig, Egypt. Name of student: Abdalla Zidan – 2023 to present (In progress)

## REVIEWER ACTIVITIES

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- 1- **Technical Program Committee (TPC) Member** of the 3rd International Conference on Sustainability: DEVELOPMENTS & INNOVATIONS, Prince Sultan University (PSU), Riyadh 11586 Saudi Arabia, February 8-12, 2026.
- 2- **Topic Editor** "Sustainable Construction Materials, Processes, and Automation Technologies". MDPI Publisher, 06/20/2025 – 08/20/2026.
- 3- **Guest Editor of Special Issue** "Investigations of Steel–Concrete Composite Structures Under Static and Dynamic Loading Conditions" Buildings Journal, 11/2024 – 11/2025.
- 4- **Guest Editor of Special Issue** "Incorporating Advanced New or Recycled Materials in Reinforced Concrete Structures" Materials Journal, 08/2024 – 06/2025. (**TWO published papers**)
- 5- 2023 NSF Engineering CAREER Workshop Mock Panel Session - Tuesday, May 9<sup>th</sup>, 2023
- 6- **Guest Editor of Special Issue** "Modeling and Testing of Reinforced Concrete or Composite Structures Using Advanced New Materials" Materials Journal, 11/2021 – 03/2023. (**22 published papers**)
- 7- **Topical Advisory Panel Member of Materials Journal** (<https://www.mdpi.com/journal/materials>).
- 8- **Ad hoc reviewer** for Elsevier, ASCE, Taylor & Francis, ACI, etc.:
  - *MDPI journals (Applied Sciences Journal, Materials Journal, Buildings Journal, Fibers Journal, Metals Journal, Symmetry Journal);*
  - *Elsevier journals (Construction and Building Materials, Engineering Structures, Thin-Walled Structures, Structures);*
  - *Sage journals (Advances in Structural Engineering);*
  - *International journals (Journal of King Saud University, Engineering Science and Technology, Journal of Materials Engineering and Performance, Structure and Infrastructure Engineering, Materials Research Express, Advances in Civil Engineering).*

## TEACHING EXPERIENCE

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### East Texas A&M University, Commerce, TX, USA

Department of Engineering & Technology

- 1- CONE 413 - Design & Const of Steel
- 2- CONE 414 - Design & Const of Concrete
- 3- CONE 331 - Mechanics of Materials
- 4- CONE 332 - Structural Analysis and Design
- 5- CONE 341 - Engineering Hydrology and Hydraulic
- 6- CONE 351 - Surveying for Construction
- 7- CONE 322 – Construction Planning and Scheduling
- 8- CONE 221 - Building Construction
- 9- CONE 321 - Construction Estimating
- 10- CONE 489 - Research in Construction Engineering
- 11- ENGR 2303 - Engineering Mechanics
- 12- ENGR 1304 - Computer-Aided Design (CAD)

### University of Missouri, Columbia, MO, USA

Civil and Environmental Engineering Department

***Adjunct Instructor:***

- 1- CV\_ENG 3300 - Structural Analysis I. (Fall 2018)

***Teaching Assistant:***

- 2- ENGR 1200 - Statics and Elementary Strength of Materials (online course). (Falls, Springs, and Summers of 2015-2018)
- 3- ENGR 2200 - Intermediate Strength of Materials. (Fall 2015, Springs of 2016 and 2018, and Summer 2018)

**Zagazig University, Zagazig, Egypt**

Department of Structural Engineering

***Lecturer:***

1. Computer-Aided Design of Structures.
2. High Rise Buildings Design.
3. Earthquake engineering.
4. Structure Analysis Program (SAP2000)
5. Computer-Aided Design (CAD)

***Teaching Assistant:***

1. Theory of Structures I, II, and III. (Falls of 2007-2012)
2. Structural Mechanics I, II. (Springs of 2006-2013)
3. Plates and Shells. (Springs of 2006-2013)
4. Matrix Methods of Structural Analysis. (Falls of 2007-2012)

## TEACHING EVALUATIONS

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➤ Comparative Analysis - Score Table

Semester		Response Ratio	Instructor	Department	College	University
Spring 2019	Instructor questions	94%	4.78	4.47	4.39	4.42
	Course Questions		4.70	4.45	4.38	4.42
Fall 2019	Instructor questions	94%	4.88	4.40	4.37	4.41
	Course Questions		4.80	4.31	4.34	4.40
Spring 2020		No course evaluations due to Covid-19				
Fall 2020	Instructor questions	78%	4.74	4.43	4.32	4.42
	Course Questions		4.75	4.44	4.34	4.42
Spring 2021	Instructor questions	85%	4.63	4.48	4.29	4.36
	Course Questions		4.65	4.57	4.37	4.44

<b>Fall 2021</b>	Instructor questions	<b>78%</b>	<b>4.66</b>	4.53	4.31	4.35
	Course Questions		<b>4.77</b>	4.56	4.38	4.41
<b>Spring 2022</b>	Instructor questions	<b>74%</b>	<b>4.90</b>	4.59	4.43	4.42
	Course Questions		<b>4.91</b>	4.67	4.49	4.47
<b>Fall 2022</b>	Instructor questions	<b>94%</b>	<b>4.73</b>	4.58	4.41	4.42
	Course Questions		<b>4.76</b>	4.60	4.47	4.47
<b>Spring 2023</b>	Instructor questions	<b>98%</b>	<b>4.72</b>	4.50	4.38	4.41
	Course Questions		<b>4.74</b>	4.51	4.44	4.46
<b>Fall 2023</b>	Instructor questions	<b>83%</b>	<b>4.59</b>	4.58	4.36	4.39
	Course Questions		<b>4.66</b>	4.61	4.44	4.44
<b>Spring 2024</b>	Instructor questions	<b>98%</b>	<b>4.82</b>	4.56	4.43	4.42
	Course Questions		<b>4.87</b>	4.58	4.49	4.47
<b>Fall 2024</b>	Instructor questions	<b>68%</b>	<b>4.78</b>	4.53	4.35	4.43
	Course Questions		<b>4.87</b>	4.60	4.43	4.49
<b>Spring 2025</b>	Instructor questions	<b>100%</b>	<b>4.57</b>	4.54	4.45	4.47
	Course Questions		<b>4.6</b>	4.58	4.53	4.54

## TRAINING IN TEACHING

### Texas A&M University-Commerce, Commerce, TX, USA

#### 1- ACUE Course: **Fostering a Culture of Belonging** (Fall 2024)

- ✓ Gain proven strategies to create a more equitable and just environment and promote a sense of belonging for students and colleagues.
- ✓ Manage the impact of implicit bias, reduce microaggressions, address imposter phenomenon and stereotype threat, and create inclusive learning environments.

#### 2- ACUE Course: **Advanced Certificate in Effective Teaching Practice Framework** (2023-2024).

- ✓ Designing learner-centered and equitable courses.
- ✓ Establishing a productive learning environment.
- ✓ Using active learning strategies.
- ✓ Promoting higher order thinking.
- ✓ Assessing to inform instruction and promote learning.

#### 3- ACUE Course: **Certificate in Effective College Instruction** (2021-2022)

- Designing an effective course and class.
- Establishing a productive learning environment.
- Using active learning techniques.
- Promoting higher order thinking.
- Assessing to inform instruction and promote learning.

### University of Missouri, Columbia, MO, USA

- 1- Orientation for New International Teaching Assistants (ONITA). (Fall 2015)
- 2- Teaching for Learning Workshop (Spring 2017)
- 3- 2<sup>nd</sup> Annual Teaching Renewal Week (Spring 2017):  
*Intentional Syllabus - Engagement - Dealing with Distracted Students - Defining and Preventing Plagiarism/Cheating - Grading/Assessment.*

### **Zagazig University, Egypt**

A program for teaching training as a requirement for the Assistant Lecturer position. The program titled “Skills Development of Teaching Staff and their Assistants” offered by *Faculty and Leadership Development Center (FLDC): Zagazig University*. The program includes these courses:

1. Using technology in teaching
2. Ethics of scientific research
3. International publication of papers
4. Effective communication skills
5. Testing systems and students' evaluation

## **UNIVERSITY SERVICE**

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### **✓ ADVISING STUDENTS**

- 1- **Faculty advisor:** In this role, I am advising CONE students and helping them with Classes Registration and reviewing the Graduation Checklist.

### **✓ COMMITTEES**

- 1- **Department's Tenure and Promotion (T&P) Committee** (Starting Fall 2024): this committee plays a critical role in ensuring a fair, transparent, and rigorous evaluation process for faculty members seeking tenure and/or promotion.
- 2- **Scholarship committee member:** In this role, I am serving in the scholarship committee as a member to review and evaluate applicants in the Scholarship Portal.
- 3- **Faculty Development Leave Committee member:** In this role, I am serving in the Faculty Development Leave Committee as a member to review and evaluate the applications of the faculty.
- 4- **Department curriculum committee:** In this role, we are discussing the department minors and any other curriculum changes.
- 5- **ABET Preparation:** In this role, I participated in preparation for the ABET visit. I prepared the Student Learning Outcomes (SLOs) for my courses as well as the other required documents.
- 6- **Search Committee Member (2023):** In this role, I am a member of the search committee for the position of Department Head for Engineering and Technology.
- 7- **Search Committee Member (2022-2023):** In this role, I am a member of the search committee for the position of Tenure-Track Assistant Professor of Construction Engineering.

8- **Search Committee Chair** (2020-2022): In this role, I am the chair of the search committee for the Tenure-Track Assistant Professor of Construction Engineering position.

✓ ***ORGANIZATIONS AND COMPETITIONS***

1- **Student Organization Advisor**: In this role, I am serving as the advisor for the Student Construction Association.

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## COMMUNITY SERVICE

### **1- Member of the Construction Committee at McKinney Islamic Association**

As a Professional Engineer (PE), I am volunteering to review the architectural and structural designs of the new McKinney Community Center, McKinney, TX.