

CURRICULUM VITAE

AMR M.I. SWEEDAN, Ph.D., P.Eng.

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1. Personal Information:

Education

- **Ph.D.** (2003) Department of Civil and Environmental Engineering, the University of Western Ontario, London, Ontario, Canada.
- **M.Sc.** (1998) Department of Civil Engineering – Structural Division, Ain Shams University, Cairo, Egypt.
- **B.Sc.** (1992) Department of Civil Engineering – Structural Division, Ain Shams University, Cairo, Egypt, Distinction with Honors Degree.

Professional Experience

- 09/2017 – Present Director of Academic Affairs, Provost Office, UAE University.
- 09/2016 – 08/2017 Advisor, Vice Chancellor's Office, UAE University.
- 09/2015 – 08/2016 Advisor, Provost Office, UAE University, United Arab Emirates.
- 09/2013 – 08/2015 Chairman of Civil and Environmental Engineering Department, UAE University, United Arab Emirates.
- 09/2011 – Present Associate Professor, Civil and Environmental Engineering Department, UAE University, United Arab Emirates.
- 08/2005 – 08/2011 Assistant Professor, Civil and Environmental Engineering Department, UAE University, United Arab Emirates.
- 05/2003 – 07/2005 Senior Structural/Wind Engineer, Rowan Williams Davis & Irwin (RWDI), Consulting Engineers and Scientists, Guelph, Ontario, Canada.
- 09/2002 – 12/2002 Lecturer (limited duty appointment), Civil and Environmental Engineering Department, the University of Western Ontario, London, Ontario, Canada.
- 09/1998 – 08/2002 Teaching/Research Assistant, Civil and Environmental Engineering Department, the University of Western Ontario, London, Ontario, Canada.
01/2003 – 04/2003
- 05/1994 – 08/1998 Assistant Lecturer, Civil and Environmental Engineering Department, the Higher Technological Institute, Tenth of Ramadan City, Egypt.
- 06/1994 – 06/1998 Structural Engineer, Alpha Metal Steel Buildings & Industries (S.A.E.), Cairo, Egypt (Part Time Appointment).
- 05/1993 – 05/1994 Structural Engineer, Alpha Metal Steel Buildings & Industries (S.A.E.), Cairo, Egypt (Full Time Appointment).

2. Research, Scholarly and Creative Activities:

Book Chapters

- B1.** Maraqa, M.A., **Sweedan, A.M.I.** and Zanelidin, E. (2016) "Inclusion of Construction Health and Safety in Engineering Programs in the MENA Region: Assessment and Potential Enhancement", *Advances in Engineering Education in the Middle East and North Africa*, Springer, pp. 261-299

Articles in Peer-Reviewed Journals

(Names of students/advises are underlined)

- J1.** **Sweedan, A.M.I.**, Rojob, H.N. and El-Sawy, K.M. (2018) "Analytical and Numerical Study of the Serviceability Performance of Partial Composite Steel-FRP Beams", International Journal of Structural Integrity, Vol. 9, Issue: 5, pp. 625-645, <https://doi.org/10.1108/IJSI-12-2017-0069>
- J2.** Abou El-Hamd, O., **Sweedan, A.M.I.**, El-Sawy, K.M. (2018) "Experimental and Numerical Study of the Parameters Controlling the Behavior of Double-Lap Connections of Steel Plates Bolted to Hybrid FRP Strips", Journal of Thin Walled Structures, Vol. 125, April 2018, pp. 140-151, <https://doi.org/10.1016/j.tws.2018.01.018>
- J3.** **Sweedan, A.M.I.**, Alhadid, M. and El-Sawy, K.M. (2016) "Experimental Study of the Flexural Response of Steel Beams Strengthened with Anchored Hybrid Composites", Journal of Thin Walled Structures, Vol. 99, pp. 1-11.
- J4.** **Sweedan, A.M.I.**, Rojob, H.N. and El-Sawy, K.M. (2014) "Mechanically-Fastened Hybrid Composites for Flexural Strengthening of Steel Beams", Journal of Thin Walled Structures, Vol. 85, pp. 250-261.
- J5.** El-Sawy, K.M., **Sweedan, A.M.I.** and Martini, M. I. (2014) "Moment Gradient Factor of Cellular Steel Beams under Inelastic Flexure", Journal of Constructional Steel Research, Vol. 98, No. 1, pp. 20-34.
- J6.** **Sweedan, A.M.I.**, El-Sawy, K.M. and Alhadid, M. (2013) "Interfacial Behavior of Mechanically Anchored FRP Laminates for Strengthening Steel Beams", Journal of Constructional Steel Research, Vol. 80, No. 1, pp. 332-345.
- J7.** **Sweedan, A.M.I.** and El-Sawy, K.M. (2011) "Elastic Local Buckling of Perforated Webs of Steel Cellular Beam-Column Elements", Journal of Constructional Steel Research, Vol. 67, No. 7, pp. 1115-1127.
- J8.** **Sweedan, A.M.I.** (2011) "Elastic Lateral Stability of I-Shaped Cellular Steel Beams", Journal of Constructional Steel Research, Vol. 67, No. 2, pp. 151-163.
- J9.** El-Sawy, K.M. and **Sweedan, A.M.I.** (2010) "Elastic Stability Analysis of Loosely Fitted Thin Liners - A Proposed Simplified Procedure and Evaluation of Existing Solutions", Journal of Tunnelling and Underground Space Technology, Trenchless Technology Research, Vol. 25, No. 6, pp. 689-701.
- J10.** El-Sawy, K.M. and **Sweedan, A.M.I.** (2010) "Effect of Local Wavy Imperfections on the Elastic Stability of Cylindrical Liners Subjected to External Uniform Pressure", Journal of Tunnelling and Underground Space Technology, Trenchless Technology Research, Vol. 25, No. 6, pp. 702-713.
- J11.** El-Sawy, K.M. and **Sweedan, A.M.I.** (2010) "Innovative use of Computer Tools in Teaching Structural Engineering Applications", Australasian Journal of Engineering Education, Institution of Engineers Australia, Vol. 16, No. 1, pp. 35-54.

- J12. Sweedan, A.M.I.** and El-Sawy, K.M. (2010) "Characterization of Elastic Buckling of Cylindrical Liners using Finite Element Approach", *Alhosn University Journal of Engineering & Applied Sciences*, Vol. 3, No. 1, pp. 17-30.
- J13. Sweedan, A.M.I.** (2009) "Equivalent Mechanical Model for Seismic Forces in Combined Tanks Subjected to Vertical Earthquake Excitation", *Journal of Thin-Walled Structures*, Vol.47, No. 8-9, pp. 942-952.
- J14. Sweedan, A.M.I.**, El-Sawy, K.M. and Martini, M.I. (2009) "Identification of the Buckling Capacity of Axially Loaded Cellular Columns", *Journal of Thin-Walled Structures*, Vol.47, No. 4, pp. 442-454.
- J15. Sweedan, A.M.I.** and El Damatty, A. (2009) "Simplified Procedure for Design of Liquid Storage Combined Conical Tanks", *Journal of Thin-Walled Structures*, Vol.47, No. 6-7, pp. 750-759.
- J16. El-Sawy, K., Sweedan, A.M.I.** and Martini, M.I. (2009) "Major-axis Elastic Buckling of Axially Loaded Castellated Steel Columns", *Journal of Thin-Walled Structures*, Vol.47, No. 11, pp. 1295-1304.
- J17. El Damatty, A.A.** and **Sweedan, A.M.I.** (2006) "Equivalent Mechanical Analog for Dynamic Analysis of Pure Conical Tanks", *Journal of Thin-Walled Structures*, Vol.44, pp. 429-440. (Listed by ScienceDirect as one of the Top 25 most read articles in Thin-Walled Structures, July to September 2006).
- J18. Sweedan, A.M.I.** and El Damatty, A.A. (2005) "Equivalent Models of Pure Conical Tanks under Vertical Ground Excitation", *Journal of Structural Engineering, ASCE*, 131:5, pp. 725-733.
- J19. El Damatty, A.A., Saafan, M.S.** and **Sweedan, A.M.I.** (2005) "Dynamic Characteristics of Combined Conical-Cylindrical Shells", *Journal of Thin-Walled Structures*, Vol.43, pp. 1380-1397. (Listed by ScienceDirect as one of the Top 25 most read articles in Thin-Walled Structures, July to September 2005).
- J20. El Damatty, A.A., Saafan, M.S.** and **Sweedan, A.M.I.** (2005) "Experimental Study Conducted on a Liquid-Filled Combined Conical Tank Model", *Journal of Thin-Walled Structures*, Vol.43, pp. 1398-1417. (Listed by ScienceDirect as one of the Top 25 most read articles in Thin-Walled Structures, July to September 2005).
- J21. Sweedan, A.M.I.** and El Damatty, A.A. (2003) "Experimental Identification of the Vibration Modes of Liquid-Filled Conical Tanks and Validation of a Numerical Model," *Journal of Earthquake Engineering and Structural Dynamics*, Vol.32 (9), pp. 1407-1430.
- J22. Sweedan, A.M.I.** and El Damatty, A.A. (2002) "Experimental and Analytical Evaluation of the Dynamic Characteristics of Conical Shells", *Journal of Thin-Walled Structures*, Vol.40, pp. 465-486.
- J23. Salem, A.H., Fayed, M.N.S., Hassan, M.H.M.** and **Sweedan, A.M.I.** (1998) "System Reliability of Steel Latticed Towers", *Faculty of Engineering, Ain Shams University, Scientific Bulletin*, Vol.33, No.1, Part I, pp. 21-49.

Technical Reports

- R1. Sweedan, A.M.I.** and El-Sawy, K.M. (2012) "Investigating the Influence of Buckling Modes Interaction on the Capacity of Cellular Beams", *Research Affairs Sector, UAE University, United Arab Emirates*.
- R2. Sweedan, A.M.I.** and El-Sawy, K.M. (2011) "Numerical Investigation of the Static Behavior of Integrated Steel-CFRP Laminates Beam Systems", *Research Affairs Sector, UAE University, United Arab Emirates*.

- R3. Sweedan, A.M.I.** (2010) "Identification of the Influence of the Moment-Gradient Factor on the Moment Carrying Capacity of Cellular Beams", Research Affairs Sector, UAE University, United Arab Emirates.
- R4. Sweedan, A.M.I.** (2009) "Evaluation of the Buckling Capacity of Steel Shells of Revolution Subjected to Internal Hydrostatic Pressure", Research Affairs Sector, UAE University, United Arab Emirates.
- R5. Sweedan, A.M.I.** (2008) "Dynamic Response and Behavior of Combined Conical Tanks under Vertical Base Excitation", Research Affairs Sector, UAE University, United Arab Emirates.
- R6. El Damatty, A.A. and Sweedan, A.M.I.** (2002) "Assessment of the Seismic Behavior of Durakit Cardboard Shelters using Shake-Table Testing and Finite Element Analysis", For Durakit Shelters Inc., Canada.
- R7. El Damatty, A.A. and Sweedan, A.M.I.** (2001) "Buckling Study for a Curbed Masonry Wall", Concert Hall, Centre of Performance Arts, Philadelphia, USA, For Drexel University, PA, USA.

Refereed Conference Proceedings

- C1. El Gamal, M., Mohamed, A., El-Dieb, A., Sweedan, A.M.I., and El-Sawy, K.** (2017) "Production of Durable and Cost Effective Sewer Pipes Using Petroleum and Industrial Waste By-Products", Proceedings of the International Conference on Advances in Sustainable Construction Materials and Civil Engineering Systems, ASCMCES-17, 18-20 April, Sharjah, United Arab Emirates, Paper No. ASCMCES-140.
- C2. Abou El-Hamd, O.R., Sweedan, A.M.I. and El-Sawy, K.M.** (2017) "Structural Behavior of HFRP-Steel Double-Lap Joints with FRP Bolts, Proceedings of the 2nd World Congress on Civil, Structural, and Environmental Engineering, CSEE'17, 2-4 April, Barcelona, Spain, Paper No. ICSENM 103.
- C3. Abou El-Hamd, O.R., Sweedan, A.M.I. and El-Sawy, K.M.** (2016) "Experimental Assessment of the Main Factors Controlling the Mechanical Behavior of Bolted Hybrid Connections", International Conference on Infrastructure Management, Assessment and Rehabilitation Techniques, ICIMART'16, 8-10 March, Sharjah, UAE.
- C4. Abou El-Hamd, O.R., Sweedan, A.M.I. and El-Sawy, K.M.** (2015) "Assessment of the Influence of Washers on the Mechanical Behavior of Anchored Hybrid Joints", UAE Graduate Student Research Conference (UAEGSRC2015), Abu Dhabi, UAE, March 22-24, 2015.
- C5. El-Ariss, B. and Sweedan, A.M.I.** (2014) "Assessment of Engineering Course Outcomes: Case Study", Proceedings of the International Conference on Engineering Education and Research: ICEER2014-McMaster, 24–26 August, Hamilton, Ontario, Canada.
- C6. Zanelidin, E., Maraqa, M.A. and Sweedan, A.M.I.** (2014) "Extent of Construction Safety in the Engineering Curricula from the Perspective of Practitioners in the MENA Region", Proceedings of the 121st Annual Conference, 360 Degrees of Engineering Education, ASEE 2014, Paper 8623, June 15 - 18, 2014 Indianapolis, Indiana, USA.
- C7. Alhadid, M.M.A., Sweedan, A.M.I. and El-Sawy, K.M.** (2013) "Testing of Steel Beams Externally Reinforced using Anchored Hybrid FRP Composites", Proceedings of the Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures SMAR 2013, Paper 98, September 9–11, 2013, Istanbul, Turkey.
- C8. Alhadid, M.M.A., Sweedan, A.M.I. and El-Sawy, K.M.** (2012) "A Simplified Load-Slip Model for Composite CFRP-GFRP Laminates Bolted to Steel Plates", Proceedings of the

1st Australasia and South East Asia Conference in Structural Engineering and Construction IASEA-SEC1, Research, Development and Practice in Structural Engineering and Construction, Paper St-44-0135, November 28–December 2, 2012, Perth, Australia.

- C9. Sweedan, A.M.I.** (2011) “Assessment of the Moment Carrying Capacity of Girders with Web Openings”, Proceedings of the 6th International Structural Engineering and Construction Conference, Modern Methods and Advances in Structural Engineering and Construction, ISEC-6, Paper S2-S111, 21–26 June, Zürich, Switzerland.
- C10. El-Sawy, K.M. and Sweedan, A.M.I.** (2011) “On the Elastic Local Buckling of the Webs of Steel Cellular Columns”, Proceedings of the 6th International Structural Engineering and Construction Conference, Modern Methods and Advances in Structural Engineering and Construction, ISEC-6, Paper S2-S112, 21–26 June, Zürich, Switzerland.
- C11. Sweedan, A.M.I. and El-Sawy, K.M.** (2010) “Evaluation of the Stability of Locally Imperfect Liners under External Uniform Pressure”, Proceedings of the 20th North American Society for Trenchless Technology (NASTT) Conference, NO-DIG 2010, Paper F-4-01, 2–7 May, Chicago, Illinois, U.S.A.
- C12. El-Sawy, K.M. and Sweedan, A.M.I.** (2009) “Teaching Structural and Stress Analysis Using Excel and Visual Basic for Application”, Proceedings of the International Conference on Education and New Learning Technologies: EDULEARN09, pp. 2224–2235, 6–8 June, Barcelona, Spain.
- C13. El Shorbagy, W., Sherif, M., Sweedan, A.M.I. and El-Sawy, K.M.** (2009) “Evolution of the Assessment of Educational Objectives of the Civil Engineering Program, United Arab Emirates University”, Proceedings of the International Symposium on Engineering Education and Educational Technologies: EEET 2009, 10–13 July, Orlando, Florida, U.S.A.
- C14. El-Ariss, B., Sweedan, A.M.I. and El-Sawy, K.M.** (2009) “Proposed Methodology for Assessment of Educational Outcomes of Engineering Courses”, Proceedings of the International Symposium on Engineering Education and Educational Technologies: EEET 2009, 10–13 July, Orlando, Florida, U.S.A.
- C15. Sweedan, A.M.I. and El Damatty, A.** (2009) “Evaluation of the Seismic Response of Conical Steel Tanks Using the Equivalent Model Technique”, Proceedings of the ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering COMPDYN 2009, Paper CD 102, 22–24 June, Rhodes, Greece.
- C16. El Shorbagy, W., Sweedan, A.M.I., El-Mowafy, A., El-Sawy, K.M. and Sherif, M.,** (2009) “Development of the Assessment for the Civil Engineering Program at the United Arab Emirates University”, Proceedings of the Symposium on Engineering Education: SEE 2009, Paper 06, 16–18 May, Al-Ain, UAE.
- C17. Sweedan, A.M.I.** (2009) “Evaluation of the Buckling Capacity of Steel Shells of Revolution Subjected to Internal Hydrostatic Pressure”, Proceedings of the 10th Annual Research Conference, 10ARC, Paper ARC-048, 13–16 April, Al-Ain, UAE.
- C18. El-Sawy, K.M. and Sweedan, A.M.I.** (2009) “Effect of Local Imperfection on Stability of Cylindrical Liners Subjected to External Uniform Pressure”, Proceedings of the 10th Annual Research Conference, 10ARC, Paper ARC-045, 13–16 April, Al-Ain, UAE.
- C19. Sweedan, A.M.I.** (2008) “Dynamic Response of Vertically Excited Elevated Combined Steel Tanks”, Proceedings of the 7th European Conference on Structural Dynamics EURODYN 2008, Paper E78, 7–9 July, Southampton, United Kingdom.

- C20. Sweedan, A.M.I.** (2008) "Dynamic Response and Behavior of Combined Conical Tanks under Vertical Base Excitation", Proceedings of the 9th Annual Research Conference, 9ARC, Paper BC 3, 21–23 April, Al-Ain, UAE.
- C21. Sweedan, A.M.I.** (2003) "Effect of Horizontal Seismic Excitation on Conical Tanks and Development of an Equivalent Mechanical Model", 3rd Joint Annual OWWA/OMWA Conference, 4-6 May 2003, Hamilton, Ontario, Canada.
- C22. Sweedan, A.M.I.** and El Damatty, A.A. (2002) "Equivalent Mechanical Model Simulating Dynamic Characteristics of Conical Steel Tanks," Proceedings of the 4th Structural Specialty Conference, CSCE 2002, Paper ST-98, 5-8 June, Montreal, Quebec, Canada.
- C23.** El Damatty, A.A. and **Sweedan, A.M.I.** (2001) "Advances in Seismic Analysis of Liquid-Filled Conical Tanks," Proceedings of the 1st International Conference on Steel and Composite Structures, ICSCS'01, 14-16 June, Pusan, Korea, Vol. 2, pp. 1361-1368.
- C24. Sweedan, A.M.I.** and El Damatty, A.A. (2000) "Shake Table Testing of Conical Tank Models," Proceedings of the 3rd Structural Specialty Conference, CSCE 2000, 7-10 June, London, Ontario, Canada, pp.177-184.

Presentations at Research Conferences

- P1.** Alhadid, M.M.A, **Sweedan, A.M.I.** and El-Sawy, K.M. (2013) "Testing of Steel Beams Externally Reinforced using Anchored Hybrid FRP Composites", Oral Presentation, the Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures SMAR 2013, Paper 98, September 9–11, 2013, Istanbul, Turkey.
- P2. Sweedan, A.M.I.** (2011) "Assessment of the Moment Carrying Capacity of Girders with Web Openings", Oral Presentation, 6th International Structural Engineering and Construction Conference, Modern Methods and Advances in Structural Engineering and Construction, ISEC-6, 21–26 June, Zürich, Switzerland.
- P3. Sweedan, A.M.I.** and El Damatty, A. (2009) "Evaluation of the Seismic Response of Conical Steel Tanks Using the Equivalent Model Technique", Oral Presentation, ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering COMPDYN 2009, 22–24 June 2009, Rhodes, Greece.
- P4. Sweedan, A.M.I.** (2009) "Evaluation of the Buckling Capacity of Steel Shells of Revolution Subjected to Internal Hydrostatic Pressure", Oral Presentation, 10th Annual Research Conference, 10ARC, 13–16 April, Al-Ain, UAE.
- P5. Sweedan, A.M.I.** (2008) "Dynamic Response of Vertically Excited Elevated Combined Steel Tanks", Oral Presentation, the 7th European Conference on Structural Dynamics EURODYN 2008, 7–9 July 2008, Southampton, United Kingdom.
- P6. Sweedan, A.M.I.** (2008) "Dynamic Response and Behavior of Combined Conical Tanks under Vertical Base Excitation", Oral Presentation, 9th Annual Research Conference, 9ARC, 21–23 April, Al-Ain, UAE.
- P7. Sweedan, A.M.I.** (2003) "Effect of Horizontal Seismic Excitation on Conical Tanks and Development of an Equivalent Mechanical Model", Oral Presentation, 3rd Joint Annual OWWA/OMWA Conference, 4-6 May 2003, Hamilton, Ontario, Canada.
- P8. Sweedan, A.M.I.** and El Damatty, A.A. (2002) "Equivalent Mechanical Model Simulating Dynamic Characteristics of Conical Steel Tanks," Oral Presentation, 4th Structural Specialty Conference, CSCE 2002, 5-8 June, Montreal, Quebec, Canada.

- P9. Sweedan, A.M.I.** and El Damatty, A.A. (2000) “Shake Table Testing of Conical Tank Models,” Oral Presentation, 3rd Structural Specialty Conference, CSCE 2000, 7-10 June, London, Ontario, Canada.

External Research Grants

- “Development of Design Guidelines for Instability-Induced Failures of Perforated I-Shaped Columns”, **Lead PI**, Structural Resources Ltd, N.J., U.S.A., **U.S. \$ 18,000**, February 2011.
- Numerical Modeling of the Structural Behavior of Sulfur Concrete Pipes, as part of Application Study of Sulfur Concrete Technology in the UAE”, **Co-PI**, Japan Cooperation Center, Petroleum (JCCP), Japan, **U.S.\$ 5,600,000**, July 2010.
- “Elasto-Plastic Local Buckling of Cellular Steel Members under Linearly Varying End Loads”, **Co-PI**, Emirates Foundation for Philanthropy, Science and Technology Program, UAE, **100,000 AED**, June 2010.

Interdisciplinary and Internal Research Grants

Ongoing Funded Research Projects

- Innovative Techniques for Enhancement of Safety of Roadway Bridge Girders using Noncorrosive Advanced Composite Materials, Center-Based Grants with RTT SRC, **Lead PI, 800,000 AED**, Start Date: January 2016.

Completed Funded Research Projects

- “Experimental Investigation of the Response and Interfacial Behavior of Mechanically Fastened Composite-Metal Joints”, **Lead PI**, College of Engineering, UAEU, **120,000 AED**, Grant Number 21N155-AmrSweedan-Inter-CE-2013, September 2013.
- “Investigating the Influence of Buckling Modes Interaction on the Capacity of Cellular Beams”, **Lead PI**, College of Engineering, UAEU, **20,000 AED**, Grant Number 31N076- AmrSweedan-Seed-CE-2011, July 2011.
- “Numerical Investigation of the Static Behavior of Integrated Steel-CFRP Laminates Beam Systems”, **Lead PI**, Research Affairs Sector, UAEU, **20,000 AED**, Grant Number 1586-07- 01-10, February 2010-January 2011.
- “Identification of the Influence of the Moment-Gradient Factor on the Moment Carrying Capacity of Cellular Beams”, **Lead PI**, Research Affairs Sector, UAEU, **30,000 AED**, Grant Number 02-01-7-11/09, February 2009-January 2010.
- “Elastic Local Buckling of Thin Perforated Webs of Cellular Columns under Axial Loads”, **Co-PI**, Research Affairs Sector, UAEU, **30,000 AED**, Grant Number 03-01-7-11/09, February 2009-January 2010.
- “Evaluation of the Buckling Capacity of Steel Shells of Revolution Subjected to Internal Hydrostatic Pressure”, **Lead PI**, Research Affairs Sector, UAEU, **26,000 AED**, Grant Number 01-01-7-11/08, February 2008-January 2009.
- “Effect of Three-Dimensional Local Imperfection on the Stability of Circular Liners”, **Co-PI**, Research Affairs Sector, UAEU, **20,000 AED**, Grant Number 04-01-7-11/08, February 2008-January 2009.
- “Dynamic Response and Behavior of Combined Conical Tanks under Vertical Base Excitation”, **Lead PI**, Research Affairs Sector, UAEU, **20,000 AED**, Grant Number 08-01- 7-11/07, February 2007-January 2008.

- “Effect of Web Perforations on the Elastic Buckling of I-Shaped Columns under Axial Loads”, **Co-PI**, Research Affairs Sector, UAEU, **20,000 AED**, Grant Number 05-34-7-11/06, February 2007-January 2008.

Ph.D. Dissertation Supervision

- ***O.R. Abou El-Hamd***, “Use of Noncorrosive Advanced Composite Materials for Strengthening of Steel Girders”, ongoing, since January 2017.

Master’s Theses Supervision

- ***A.R.M. Abu Elhamd***, “Assessment of Different Seismic Retrofit Systems of RC Buildings for Earthquake”, ongoing, since January 2018.
- ***O.R. Abou El-Hamd***, “Characterization of the Interfacial Behavior of Hybrid Fiber-Steel Lap Connections Fastened by Steel or FRP Anchors”, successfully completed in October 2016.
- ***H.M.M. Akkari***, “Seismic Behavior Prediction of Concentrically Braced Steel Frames”, successfully completed in October 2015.
- ***H.N. Rojob***, “Investigation of the Mechanical Behavior of I-Shaped Steel Beams Strengthened by Mechanically-Fastened FRP Laminates”, successfully completed in January 2013.
- ***M.M.A. Alhadid***, “Strengthening of Steel Beams using Mechanically Anchored Carbon Fiber Reinforced Polymers Laminates”, successfully completed in November 2011.
- ***M.I. Martini***, “Elastic Lateral Torsional Buckling of Steel Beams with Perforated Webs”, successfully completed in June 2011.

Master’s Theses Evaluation and Examination

- ***Bashir M.A. Almorad***, “Assessment of Shear Prediction Models for Seismic Loss Estimation of Concrete Buildings”, November 2016.
- ***Abdualaziz Lazkani***, “Behavior of Expansive Concrete-Filled Steel Tubular (ECFST) Columns under Axial Loadings”, April 2016.
- ***El Sayed Khalifa***, “Assessment of Multi-story Building Seismic Design Factors with Structural Irregularity”, April 2015.

Fellowships and Academic Awards

- Recipient of the UAEU Achievement Award as ***“Recognized Faculty Member in Research Excellence for publishing in Top Journals”***, UAEU Vice Chancellor, March 2018.
- Recipient of the UAEU Achievement Award as ***“Recognized Faculty Member in Research Excellence for publishing in Top Journals”***, UAEU Vice Chancellor, April 2016.
- Recipient of ***Second Place in the Best Innovative Research Idea*** for project: “Experimental Investigation of the Fastening Parameters Influencing the Interfacial Behavior of Composite-Steel Anchored Lap Connections”, Innovation and Creativity Competition, College of Engineering, UAEU, November 2015.

- Recipient of the UAEU Achievement Award “**Recognized Faculty Member in Research Excellence for publishing in Top Journals**”, UAEU Vice Chancellor, May 2015.
- **Who’s Who in the World**, 28th Edition, 2011.
- Honorary Scientific Positions with World-Class Universities: **Associate Researcher with the Boundary Layer Wind Tunnel Laboratory**, University of Western Ontario, Canada, since May 2008.
- Invited **Adjunct Research Professor** by the Department of Civil and Environmental Engineering, University of Western Ontario, Canada”, June–July 2007 to establish a collaborative research project on “Stability of Shells under Hydrostatic Loading”.
- Recipient of the **Natural Sciences and Engineering Research Council of Canada Fellowship (NSERC)**, Canada, 2003. (Awarded but declined).
- Recipient of the **Ontario Graduate Scholarship (OGS)**, Canada, 2002-2003.
- Recipient of the **Ontario Graduate Scholarship in Science and Technology (OGSST)** at UWO, Canada, 2001-2002.
- Recipient of the University of Western Ontario **President’s Scholarship for Graduate Study (PSGS)**, Canada, 1998-2000.
- Recipient of the University of Western Ontario **International Graduate Students’ Scholarship (IGSS)**, Canada, 1998-2000.

Editorships, Editorial Boards and Reviewing Activities

- Editorial Board Member, Journal of Building Material and Structural Engineering (JBMSE), August 2017.
- Scientific Committee Member, The 2018 2nd International Joint Conference on Civil and Mechanical Engineering (JCCME 2018), 26-28 October 2018, Seoul, South Korea.
- Scientific Committee Member, The 3rd International Conference on Structural Engineering, New Technology and Methods (ICSNM’18), 8-10 April 2018, Budapest, Hungary.
- Program Committee Member, The “5th Annual International Conference on Architecture and Civil Engineering (ACE 2017)”, May 2017, Singapore.
- Organizing Committee Member, The Symposium on Innovation and Entrepreneurship Education, organized in collaboration with Stanford Center for Professional Development, Habtoor Grand Beach Resort & Spa, 22- 23 November 2015, Dubai, UAE.
- Organizing Committee Member, The World Congress and Exhibition on Construction and Steel Structure: Exploring Advances in Construction and Steel Structure, 16-18 November 2015, Dubai, UAE.
- Program Committee Member, The 3rd Annual International Conference on Architecture and Civil Engineering, ACE 2015, 13-14 April 2015, Singapore.
- Organizing Committee Member, The World Congress and Exhibition on Construction and Steel Structure, November 16-18, 2015, Dubai, UAE.
- Program Committee Member, The 2nd Annual International Conference on Architecture and Civil Engineering, ACE 2014, 24-25 March 2014, Singapore.

- Editorial Board Member, IST Transactions of Civil Engineering and Construction Management, IST Press, Canada, since 2008.
- Associate Editor of the IST Transactions of Civil Engineering and Construction Management, IST Press, Canada, since 2008.
- Member of the International Scientific Committee of the 7th International Conference on Multi-purpose High-Rise Towers and Tall Buildings, IFH2005, 2005, Dubai, UAE.
- Member of the International Scientific Committee of the 8th International Conference on Multi-purpose High-Rise Towers and Tall Buildings, IFH2007, 10-12 December 2007, Abu Dhabi, UAE.
- Reviewer for Journal of Thin-Walled Structures, Elsevier, U.K.
- Reviewer for the Canadian Journal of Civil Engineering, Canada.
- Reviewer for the Journal of Steel and Composites, Techno Press, South Korea.
- Reviewer for the Journal of Engineering Mechanics, ASCE, USA.
- Reviewer for the Journal of Constructional Steel Research, ELSEVIER.
- Reviewer for the Journal of Engineering Structures, ELSEVIER.
- Reviewer for the Journal of Construction and Building Materials, ELSEVIER.
- Reviewer for the Journal of Fluids and Structures, ELSEVIER.
- Reviewer for Ain Shams Engineering Journal, ELSEVIER.
- Reviewer for the Journal of Structural Design of Tall and Special Buildings, John Wiley & Sons.
- Reviewer for the Structures and Buildings Journal, Proceedings of the Institution of Civil Engineers, ICE Publishing.
- Reviewer for the International Journal of Structural Stability and Dynamics, World Scientific Publishing.
- Reviewer for Advances in Structural Engineering, SAGE Publishing.
- Reviewer for the Journal of Multidiscipline Modeling in Materials and Structures, Emerald Group Publishing Limited, UK.
- Reviewer for the Journal of Engineering Computations, International journal for computer- aided engineering and software, Emerald Group Publishing Limited, UK.
- Reviewer for the International Journal of Physical Sciences, IJPS, Academic Journals.
- Reviewer for the Journal of the Franklin Institute, Engineering and Applied Mathematics, ELSEVIER.
- Reviewer for the International Journal of Computer Applications in Technology IJCAT, Inderscience Publishers.
- Reviewer for the Journal of Engineering Research (JER), Kuwait.
- Reviewer for the Emirates Journal for Engineering Research EJER, College of Engineering, UAE University.
- Reviewer for the 5th Annual International Conference on Architecture and Civil Engineering, ACE 2017, 8-9 May 2017, Singapore.
- Reviewer for the 3rd Annual International Conference on Architecture and Civil Engineering, ACE 2015, 13-14 April 2015, Singapore.

- Reviewer for the 2014 ASEE Annual Conference, Indianapolis, Indiana, 15-18 June 2014, Construction Division, American Society for Engineering Education, USA.
- Reviewer for the 9th International Conference on Short and Medium Span Bridges, SMSB 2014, Calgary, 15-18 July 2014, Canada.
- Reviewer for the 8th International Conference on Short and Medium Span Bridges 2010, Niagara Falls, Canada.
- Reviewer for the 11th Arab Structural Engineering Conference, ASEC11, King Fahd University of Petroleum and Minerals, 25-27 October 2009, Saudi Arabia.
- Reviewer for the 7th International Conference on Composite Science and Technology, ICCST/7, 20 – 22 January 2009, the American University of Sharjah, UAE.
- Reviewer for the 7th European Conference on Structural Dynamics, EURODEX 2008, 7-9 July 2008, Southampton, United Kingdom.
- Reviewer for the 8th International Conference on Multi-purpose High-Rise Towers and Tall Buildings, IFHS 2007, 10-12 December 2007, Abu Dhabi, UAE.
- Reviewer for the 7th International Conference on Multi-Purpose High-Rise Towers and Tall Buildings, Dubai, 2005, Dubai, UAE.

3. Teaching, Mentoring and Advising:

Undergraduate Teaching Load Details (2005/2006 through 2018/2019)

Academic Year	Semester	Course Number	Course Title	Cr. Hrs.	Contact Hours		No. of Students
					Lecture	Hands on	
2015/2016	Fall	CIVL 590	Graduation Project (II)	3.0	3.0	-	1.5
2014/2015	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	9
		CIVL 590	Graduation Project (II)	3.0	2.0	-	4
	Spring	CIVL 585	Graduation Project (I)	3.0	2.0	-	4
	Summer	CIVL 590	Graduation Project (II)	3.0	1.0	-	2
2013/2014	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	23
		CIVL 590	Graduation Project (II)	3.0	2.0	-	4
	Spring	CIVL 552	Advanced Steel Design	3.0	3.0	-	4
		CIVL 585	Graduation Project (I)	3.0	2.0	-	4
2012/2013	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	21
		CIVL 417	Structural Steel Design	3.0	3.0	-	17
		CIVL 585	Graduation Project (I)	3.0	2.0	-	4
		CIVL 590	Graduation Project Coordination	1.5	1.5	-	20
	Spring	CIVL 417	Structural Steel Design	3.0	3.0	-	11
		CIVL 552	Advanced Steel Design	3.0	3.0	-	20
		CIVL 585	Graduation Project (I)	3.0	2.0	-	4
		CIVL 590	Graduation Project (II)	3.0	2.0	-	4
	Summer	CIVL 552	Advanced Steel Design	3.0	3.0	-	13
2011/2012	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	32
		CIVL 417	Structural Steel Design	3.0	3.0	-	26
		CIVL 585	Graduation Project (I)	3.0	3.0	-	5
		CIVL 585	Graduation Project (I)	3.0	2.0	-	4
	Spring	CIVL 417	Structural Steel Design	3.0	3.0	-	11
		CIVL 552	Advanced Steel Design	3.0	3.0	-	8
		CIVL 590	Graduation Project (II)	3.0	3.0	-	5
		CIVL 590	Graduation Project (II)	3.0	3.0	-	4
2010/2011	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	21
		CIVL 417	Structural Steel Design	3.0	3.0	-	19
		CIVL 585	Graduation Project (I)	1.5	0.5	-	3
		CIVL 590	Graduation Project (II)	3.0	3.0	-	3
	Spring	CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	9
		CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	23
		CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	20
		CIVL 590	Graduation Project (II)	1.5	1.0	-	3
		CIVL 590	Graduation Project Coordination	1.5	1.5	-	16

Academic Year	Semester	Course Number	Course Title	Cr. Hrs.	Contact Hours		No. of Students
					Lecture	Hands on	
2009/2010	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	31
		CIVL 417	Structural Steel Design	3.0	3.0	-	19
		GENG 240	Statics	3.0	3.0	-	23
		CIVL 585	Statics Graduation Project (I)	1.5	1.5	-	3
	Spring	CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	21
		CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	18
		CIVL 585	Graduation Project (I)	1.5	1.5	-	3
		CIVL 590	Graduation Project (II)	1.5	1.5	-	3
2008/2009	Fall	CIVL 417	Structural Steel Design	3.0	3.0	-	24
		CIVL 417	Structural Steel Design	3.0	3.0	-	16
		CIVL 417	Structural Steel Design	3.0	3.0	-	18
		CIVL 585	Graduation Project (I)	2.0	2.0	-	4
	Spring	CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	13
		CIVL 458	Str. Sys & Steel Design for Arch	3.0	3.0	-	26
2007/2008	Fall	CIVL 417	Structural Steel Design	3.0	3.0	3.0	8
		CIVL 417	Structural Steel Design	3.0	3.0	3.0	24
		CIVL 417	Structural Steel Design	3.0	3.0	3.0	14
		CIVL 585	Graduation Project (I)	3.0	3.0	3.0	3
	Spring	-	Laptop Course Development	2.5	2.5	-	-
		GENG 240	Statics	3.0	2.0	2.0	25
		CIVL 458	Str. Sys & Steel Design for Arch	3.0	2.0	2.0	22
		CIVL 458	Str. Sys & Steel Design for Arch	3.0	2.0	2.0	24
2006/2007	Fall	CIVL 351	Structural Design I (Arch.)	3.0	2.0	2.0	26
		CIVL 351	Structural Design I (Arch.)	3.0	2.0	2.0	18
		GENG 240	Statics	3.0	2.0	2.0	16
		CIVL 585	Graduation Project (I)	3.0	3.0	-	4
	Spring	CIVL 414	Structural Steel Design	3.0	2.0	2.0	26
		CIVL 414	Structural Steel Design	3.0	2.0	2.0	10
		CIVL 454	Structural Design IV (Arch.)	3.0	2.0	2.0	16
		CIVL 590	Graduation Project (II)	3.0	3.0	-	4
2005/2006	Fall	CIVL 351	Structural Design I (Arch.)	3.0	2.0	2.0	25
		CIVL 351	Structural Design I (Arch.)	3.0	2.0	2.0	23
		CIVL 351	Structural Design I (Arch.)	3.0	2.0	2.0	22
		PHYS 1153	Physics & Eng. Application (I)	1.1	1.1	-	22
		PHYS 1153	Physics & Eng. Application (I)	1.1	1.1	-	18
		PHYS 1153	Physics & Eng. Application (I)	1.1	1.1	-	26
	Spring	CIVL 414	Structural Steel Design	3.0	2.0	2.0	18
		CIVL 414	Structural Steel Design	3.0	2.0	2.0	6
		CIVL 454	Structural Design IV (Arch.)	3.0	2.0	2.0	7
		PHYS 1153	Physics & Eng. Application (I)	1.1	1.1	-	25

Graduate Teaching Load Details (2007/2008 through 2018/2019)

Academic Year	Semester	Course Number	Course Title	Cr. Hrs.	Contact Hours		No. of Students
					Lecture	Hands on	
2018/2019	Fall	CIVL 900	Dissertation Doctoral Research	3.0	3.0	-	1
		CIVL 614	Advanced Steel Design	3.0	3.0	-	8
2017/2018	Fall	CIVL 630	Special Topics in Civil Engineering	3.0	3.0	-	1
	Spring	-	-	-	-	-	-
2016/2017	Fall	CIVL 650	Master Research Thesis	1.0	2.0	-	1
	Spring	-	-	-	-	-	-
2015/2016	Fall	CIVL 650	Master Research Thesis	2.0	4.0	-	2
		CIVL 631	Independent Studies in Civil Engineering	3.0	3.0	-	1
	Spring	CIVL 650	Master Research Thesis	1.0	2.0	-	1
2014/2015	Fall	CIVL 650	Master Research Thesis	1.0	2.0	-	1
	Spring	CIVL 650	Master Research Thesis	2.0	4.0	-	2
2013/2014	Fall	-	-	-	-	-	-
	Spring	CIVL 650	Master Research Thesis	2.0	4.0	-	2
2012/2013	Fall	CIVL 650	Master Research Thesis	2.0	4.0	-	2
	Spring	-	-	-	-	-	-
2011/2012	Fall	CIVL 750 (later 650)	Master Research Thesis	1.0	2.0	-	1
		CIVL 731 (later 631)	Independent Studies in Civil Engineering	3.0	3.0	-	1
	Spring	CIVL 750 (later 650)	Master Research Thesis	1.0	2.0	-	1
2010/2011	Fall	CIVL 713	Finite Element Method	3.0	1.5	-	3
		CIVL 750 (later 650)	Master Research Thesis	2.0	4.0	-	2
	Spring	CIVL 750 (later 650)	Master Research Thesis	2.0	4.0	-	2

Academic Year	Semester	Course Number	Course Title	Cr. Hrs.	Contact Hours		No. of Students
					Lecture	Hands on	
2009/2010	Fall	-	-	-	-	-	-
	Spring	CIVL 704	Computer Applications in Civil Engineering	3.0	1.5	-	12
2008/2009	Fall	CIVL 713	Finite Element Method	3.0	1	-	2
	Spring	CIVL 704	Computer Applications in Civil Engineering	3.0	1.5	-	7
		CIVL 731 (later 631)	Independent Studies in Civil Engineering	3.0	3.0	-	1
2007/2008	Fall	-	-	-	-	-	-
	Spring	CIVL 704	Computer Applications in Civil Engineering	3.0	1.0	-	7
		CIVL 750	Master Research Thesis	1.0	2.0	-	1

Development of Course Contents

Dr. Sweedan has been involved in developing the contents of all courses that he has taught at the undergraduate and graduate levels. In the development of the course contents, he has incorporated active learning methods and approaches and ensured the application of active learning inside and outside the classroom. The developed courses include:

- **Graduate Courses**

1. Computer Applications in Civil Engineering. CIVL 704
2. Finite Element Method: Theory and Applications. CIVL 713
3. Advanced Steel Design. CIVL 614

- **Undergraduate Courses**

1. Structural Design I for Arch. CIVL 351
2. Structural Steel Design. CIVL 417 (Official Laptop Project Assignment)
3. Structural Design IV for Arch. CIVL 454
4. Structural Systems and Steel Design for Arch. CIVL 458
5. Advanced Steel Design. CIVL 552
6. Statics. GENG 240 (update of existing development)
7. Physics and Engineering Applications I. PHYS 1153 (update of existing development)

For all the above courses, the course lecturing and supporting material were completely developed. Development included preparation of full set of lecture notes using Power Point slides. Supporting material included photos of real structures/connections and animation files that were introduced to enhance the comprehension of the basic lecturing material. Excel spreadsheets were also developed to automate complicated computational and design tasks covered by each course. Besides, quizzes and homework assignments were designed to enhance and measure the comprehension of

various parts of the delivered course contents. It is worth mentioning that all courses taught by Dr. Sweedan are continuously updated to maintain the highest possible quality of course contents and delivery technique(s).

- **Development of Capstone Graduation Projects Plans**

The plans of twelve different graduation projects were developed to provide students with real-world experience. In all these projects, students are trained and closely supervised on implementing professional engineering design practices and following the guidelines of the relevant international Codes and Standards:

1. Academic Year 2014/2015, 4 students:

Design of the Roofing System of an Airport Terminal.

2. Academic Year 2013/2014, 4 students:

Analysis and Design of a Multiuse Commercial Warehouse.

3. Academic Year 2012/2013, 4 students:

Analysis and Design of a Business Center using Structural Steel.

4. Academic Year 2012/2013, 4 students:

Analysis and Design of the Roofing System of an Opera House.

5. Academic Year 2011/2012, 4 students:

Efficiency of Friction between Steel Beams and RC Slabs in Resisting Lateral Torsional Buckling of Steel Beams in Multi-Storey Buildings.

6. Academic Year 2011/2012, 5 students:

Influence of Steel-Concrete Interface on the Unsupported Length of Steel Beams Carrying Reinforced Concrete Slabs.

7. Academic Year 2010/2011, 3 students:

Behavior of Composite Flexural Elements.

8. Academic Year 2009/2010 (2nd semester) and 2010/2011 (1st semester), 3 students:

Structural Analysis and Design of a Multi-Storey Steel Building.

9. Academic Year 2009/2010, 3 students:

Analysis and Design of Airport Terminal Roofing System.

10. Academic Year 2008/2009, 4 students:

Structural Analysis and Design of a Composite Steel/RC Multi-Storey Building.

11. Academic Year 2007/2008, 3 students:

Analysis and Design of Covered Sports Arena.

12. Academic Year 2006/2007, 4 students:

Analysis and Design of Large-Span Steel Roofing System of Aljazeera Stadium.

Curriculum Development

Contributed to the development of detailed study plans, technical contents and catalogue descriptions for courses that are offered at both the undergraduate and graduate levels as summarized below:

- **Undergraduate Courses:**
 1. Structural Steel Design - CIVL 417.
 2. Structural Systems and Steel Design for Arch. - CIVL 458.
 3. Advanced Steel Design - CIVL 552.
 4. Graduation Project I - CIVL 585 (12 projects).
 5. Graduation Project II - CIVL 590 (12 projects).
- **Master's Level Courses:**
 6. Computer Applications in Civil Engineering - CIVL 704.
 7. Structural Dynamics - CIVL 711.
 8. Finite Element Method: Theory and Applications - CIVL 713.
 9. Advanced Steel Design - CIVL 614.
- **Ph.D. Level Courses:**
 10. Response of Tall Buildings to Lateral Loads.
 11. Wind Engineering
 12. Advanced Finite Element Analysis.

Teaching Awards and Other Special Recognition

- Recipient of the merit award for exceptional performance at the United Arab Emirates University, UAE, April 2007.
- Awarded grants in the form of (2.5 Credit Hours Release) for the interactive laptop development of the course “Structural Steel Design – CIVL 417), 2007/2008 academic year.
- ***Who's Who in Engineering Higher Education (WWEHE)***, USA, since January 2007.
- Awarded two certificates of appreciation from Civil Engineering Graduates to recognize teaching-related volunteer efforts for civil and environmental engineering students during their study period, 2007/2008 and 2006/2007 academic years.
- Awarded a certificate of appreciation from Architectural Engineering Graduates to recognize teaching-related volunteer efforts for students and Architectural Engineering department, 2007/2008 academic year.
- Nominated for the outstanding teaching assistant award at the University of Western Ontario, London, Ontario, Canada, 2002-2003.
- Recipient of the outstanding teaching assistant award at the University of Western Ontario, London, Ontario, Canada, 2001-2002.
- Nominated for the outstanding teaching assistant award at the University of Western Ontario, London, Ontario, Canada, 1998-1999.

Extension and Outreach Activities

- Delivered several research presentations to graduate students under the “Graduate Seminar – CIVL 700” through the 2007/2008 to 2016/2017 academic years.
- Coauthor of 1 journal publication on the application of computer programming in teaching structural engineering courses.
- Coauthor of 3 conference papers that are related to teaching, evaluation and assessment of engineering courses and programs. Two of these papers are published in international refereed conferences while the third is published in a local conference.
- Attended the training course on “Think Abilities and not Disabilities”, organized by Disability Support Services Center, Office of the Assistant Dean of Student Services that took place at the College of IT, UAE University, UAE, 13-14 November 2011.
- Invited to act as External Examiner for senior graduation projects submitted by 4 groups of students at ALHOSN University, Abu Dhabi on June 16, 2010.
- Participated in a meeting between civil and environmental engineering department and Dubal Company to set basis for potential sponsorship of civil and environmental engineering undergraduate/graduate students during their graduation projects/thesis research work. Meeting was held in Dubai on May 13, 2010.
- Attended a university-wide seminar on “Quality Assurance and Program Evaluation” by Dr. Nancy Dye, Dr. Gary Ingersoll and Dr. Donald Baker. The seminar was held in the CIT, UAEU on Wednesday February 24, 2010.
- Attended a workshop on “Using New Interactive System as a new Teaching Technique” by MIMIO Interactive System. The workshop was held at UAEU on October 22, 2009.
- Attended as a co-author of a research paper the Symposium on Engineering Education: SEE 2009, 16–18 May, Al-Ain, UAE.
- Participated in presenting an in-house developed interactive learning module to the College of Engineering faculty members on May 7, 2009 to provide guidelines for faculty members to enhance their interactive teaching approaches. The developed module shows the implementation of several interactive learning tools including: Learning Units Environment and Adaptive Release tools in Blackboard environment, Online Quizzes, Applets and Flash Movies in teaching “Statics” course.
- Attended a seminar on ABET accreditation requirements by Prof. Jerry Yeargan, Chairman of the Academic Advisory Board, UAEU, Al-Ain, March 3, 2009.
- Member of several committees formed by the civil and environmental engineering department chair to review students’ appeals regarding their overall grades in various civil and environmental engineering courses, academic years 2007/2008 through 2009/2010.
- Attended a series of workshops on “College Active Learning & Course Development”, organized by The College of Engineering Active Learning and Course Development Committee in December 2008.
- Attended a seminar organized by Center of Teaching and Learning Excellence (CTLE) in October 2008.
- Attended a workshop on “Experience of the Department of Composite Materials, WSU in ABET Accreditation” by Prof. Beckry Abdel Magid, UAEU, December 6, 2007.
- Attended the “College of Engineering Accreditation Workshop” by Prof. Jerry Yeargan and Prof. Mario Gonzalez, Hilton Al-Ain, May 20-22, 2007.
- Participated in delivering a workshop on “Procedure for conducting course outcomes

assessment” that was offered to new faculty members who joined the civil and environmental engineering department in the 2007/2008 academic year.

- Attended a short course on “Teaching at the University Level” organized by the Educational Development Office at the University of Western Ontario, London, Ontario, Canada, 19-23 August 2002.

Services:

Professional Services

- **Memberships of Professional Organizations**

1. Member of the European Association of Structural Dynamics (**EASD**), 2008-present.
2. Member of the Structural Engineering Institute (**SEI**), 2005-present.
3. Professional Engineer, Licensed member of the Association of Professional Engineers of Ontario (**PEO**), Ontario, Canada, 2005-present.
4. Member of the Canadian Society of Civil Engineering (**CSCE**), 2003-present.
5. Member of the American Society of Civil Engineers (**ASCE**), 2002-present.
6. Member of the Egyptian Syndicate of Engineers (**ESE**), 1992-present.

- **Consultancy Services at UAE University**

1. Review of the modeling, design and detailing of the structural steel roofing system of “Al-Ain Bus Station”, Al Fara’a Steel Structures, 2014.
2. Evaluation of the reasons behind the collapse of the Panorama Building”, Deira, Dubai, UAE, September 2009-January 2010.
3. Participated in preparing and submitting technical and tender details for complete design and construction supervision of a Commercial Building owned by UAEU, November 2009.
4. Analysis, design and detailing of the new structural steel system of the VIP meeting room at the Presidential Palace in Abu Dhabi, UAE, May 2009.
5. Review of the structural analysis and design of the special steel framing system for in-site testing of the main reinforced concrete frames supporting Metro Dubai, Dubai, AL Fara’a Steel Structures, UAE, December 2007.
6. Complete analysis and design for the structural steel roofing system of the new squash courts at the Islamic Institute Campus, UAE University, Al Ain, UAE, September 2007 (Complementary Service to UAEU).
7. Strengthening of medium-span steel warehouse, ARABIAN MIX, Dubai according to the AISC-LRFD 2005 specifications, June 2006.
8. Based on the MOA with the Boundary Layer Wind Tunnel Laboratory (BLWTL) at the University of Western Ontario, Canada, several wind engineering studies proposals have been recently prepared and are subject to client agreement, such as:
 - Sixth Sheik Rashid Arch Bridge, Dubai, UAE (US\$ 1,314,500)
 - Shams Marina Plots Development, Abu Dhabi, UAE (US\$ 55,000)
 - Jebel Ali Palm Condominium, Palm Jebel Ali, Dubai, UAE (US\$ 60,000)
 - Za'abeel Hotel Tower District 6, Dubai, UAE (US\$ 115,000)

- **Consultancy Services at Rowan Williams Davis & Irwin Inc. (RWDI), Consulting Engineers and Scientists, Guelph, Ontario, Canada (May 2003-August 2005)**
 - Responsible for technical planning and coordination of wind tunnel tests, conducting dynamic analysis to determine wind-induced loads on lateral load structural systems and roof systems, evaluation of wind-induced pressure on wall cladding and skylights in addition to determination of local wind loads by combining data from wind tunnel testing with statistical models of the local wind climate. Projects included residential, office and hotel towers, in addition to, stadiums and theatres. A sample of these projects is listed below:
 1. The Clare at water Tower, Chicago, Illinois, USA;
 2. The Metropolitan Condominium, Sarasota, Florida, USA;
 3. ICE Tower, Miami, Florida, USA;
 4. Ocean IV Tower, Sunny Isles, Florida, USA;
 5. Onyx Tower, Miami, Florida, USA;
 6. Plaza on Brickell Towers, Miami, Florida, USA;
 7. Met One Tower, Miami, Florida, USA;
 8. Terra Beachside Villas, Miami, Florida, USA;
 9. The Crown Hotel, Miami Beach, Florida, USA;
 10. Reser Stadium, Corvallis, Oregon, USA;
 11. Kansas City Performing Art Center, Kansas City, Missouri, USA;
 12. 33 Bay Street Residential Tower, Toronto, Ontario, Canada;
 13. Sapphire Tower, Toronto, Ontario, Canada;
 14. Stadium of Sports, Rio De Janeiro, Brazil;
 15. Moscow Neberezhnaya Tower, Moscow, Russian Federation;
 16. Kowloon Station Development - Tower 21, Hong Kong;
 17. DaCin Tienmu, Taipei, Taiwan;
 18. Samsung Seocho Towers, Seoul, South Korea;
 19. CCTV Headquarters (TVCC Tower), Beijing, China;
 20. Plaza 66 Tower II, Shanghai, China.

- **Consultancy Services at the University of Western Ontario, London, Ontario, Canada (August 2001-May 2003)**
 - Shake table testing and finite element analysis for assessment of the seismic behavior of Durakit Cardboard Shelters, Consultancy Service conducted for Durakit Shelters Inc., Ontario, Canada.
 - Finite element modeling and stability assessment for a Curbed Masonry Wall located at Concert Hall, Centre of Performance Arts, Philadelphia, USA. Study involved assessment of the impact of geometrical imperfections on the stability of the wall. Consultancy Service conducted for Drexel University, PA, USA.

- **Consultancy Services at Alpha Metal Steel Building & Industries (S.A.E.), Cairo, Egypt (May 1993-June 1998)**
 - Structural analysis and design of steel buildings, preparing calculation sheets, preparing design and workshop drawings and conducting follow-up and assessment site visits. A sample of conducted projects include:
 1. Ceramica Cleopatra Factories;
 2. Criazy Electrical Appliances Factories;
 3. Natco (Mercedes) Automobiles Factory;
 4. Prima (Hyundai) Automobiles Factory;
 5. Port-Said Sporting Complex;
 6. Miotex Factory;
 7. Amonsito Factory.

Campus Services

- **University Management**
 - Director of Academic Affairs, Provost's Office, September 2017 - Present
 - Advisor, Vice Chancellor's Office, September 2016 – August 2017.
 - Advisor, Provost's Office, September 2015 - August 2016.
- **Departmental Chairmanship**
 - Chair of the Civil and Environmental Engineering Department, September 2013 - August 2015.
- **University Committees**
 - Member of the University Accreditation Committee, 2017/2018 - Present
 - Member of the University Senior Executive Council, 2016/2017 academic year.
 - Member of the University Budget Committee, 2016/2017 academic year.
 - Member of the Policy Advisory Group, Academic Personnel, 2016/2017 academic year.
 - Member of the University Services Development Team, 2015/2016 and 2016/2017 academic years.
 - Member of the University National Agenda Team, 2015/2016 and 2016/2017 academic years.
 - Member of the University Main Functions Team, 2015/2016 and 2016/2017 academic years.
 - Member of the University Seven Star Services Team, 2015/2016 and 2016/2017 academic years.
 - Chair of the University Textbooks Purchase and Supply Regulations and Requirements Committee, 2015/2016 academic year.

- **College Committees**

- Member of the College Faculty Travel Committee, 2015/2016 academic year.
- Chair of the College Receiving Goods, Materials and Services Committee, 2014/2015 academic year.
- Member of the College Academic Performance Improvement / ABET Committee, 2013/2014 and 2014/2015 academic years.
- Member of the College Faculty Travel Committee from 2007/2008 until 2012/2013 academic year.
- Member of the College Website Committee from 2007/2008 until 2012/2013 academic year.
- Member of the College Physics Co-Teaching Committee, 2005/2006 and 2006/2007 academic years.

- **Departmental Committees**

- Member of the Civil and Environmental Engineering Department ABET Committee, 2015/2016 academic year.
- Member of the Civil and Environmental Engineering Department Educational Outcomes Assessment Committee, 2015/2016 academic year.
- Chair of the Civil and Environmental Engineering Department ABET Committee, 2013/2014 and 2014/2015 academic years.
- Member of the Civil and Environmental Engineering Department Promotion Committee, 2013/2014 and 2015/2016 academic years.
- Chair of the Civil and Environmental Engineering Department Educational Outcomes Assessment Committee, 2012/2013 academic year.
- Chair of the Civil and Environmental Engineering Department Computer and Internet Committee from 2006/2007 until 2012/2013 academic year.
- Member of the Civil and Environmental Engineering Department Educational Outcomes Assessment Committee from 2005/2006 until 2011/2012 academic year.
- Member of the Civil and Environmental Engineering Department Curriculum Committee from 2008/2009 until 2012/2013 academic year.
- Member of the Civil and Environmental Engineering Department Laptop Committee from 2007/2008 until 2012/2013 academic year.
- Member of the Civil and Environmental Engineering Department Committee for recruiting faculty members in Structural Engineering, 2008/2009 academic year.
- Member of several Civil and Environmental Engineering Department committees formed by the department chairman to review students' appeals regarding their overall grades in various undergraduate courses from 2007/2008 until 2012/2013 academic year.
- Member of the Class Scheduling Committee, 2006/2007 academic year.
- Member of the Open Day Committee, 2005/2006 academic year.

- **Other Campus-Related Services**

- Member of several ad-hoc Recruitment Committees for hiring of faculty members and lab engineers in various fields of civil engineering during the academic years 2007/2008 until 2015/2016.
- Member of several ad-hoc Students Appeals and Fact-Finding Committees during the academic years 2007/2008 until 2016/2017.
- Regularly participating in attending the civil and environmental engineering Student Society (male and female sections) ceremonies to honor graduating and outstanding students, academic years 2005/2006 through 2016/2017.
- Member of the College Panel during the academic year (2009/2010) for interviewing and selection of a faculty member in the area of structural engineering to join the Architectural Engineering department. Interviewed short-listed applicants and provided assessment forms. Prepared a ranking and recommendations report that was submitted to the Dean of Engineering, June 2010.
- Conducted a full review and evaluation of research proposals submitted for external funding by the “Emirates Foundation” in the academic year (2008/2009).
- Conducted evaluation review of research papers for nomination to the Best Research Award in the Annual Research Conference, Research Affairs Sector, UAE University.
- Conducted evaluation review of research proposals submitted for Research Affairs at UAEU for possible internal funding in the academic year (2007/2008).
- Reviewed and evaluated several laptop development proposals submitted to the civil and environmental engineering department during the 2007/2008 academic year.

Community, Local and National Services

- Delivered several presentations to the Civil Engineering Master’s Program students in the academic years 2007/2008 through 2015/2016 to highlight the current and future research projects and potential supervision of Master’s students.
- Carried out a complete development of the “Students Handbook”, that summarizes all information necessary to provide academic guidance to civil and environmental engineering students throughout their years of study at UAEU until graduation (2007/2008 academic year). Information provided in the handbook is continuously updated every academic year with the latest update incorporated in the 2009/2010 academic year.
- Delivered three workshops on “Challenges in the Construction of Mega Projects” male and female civil and environmental engineering students in the academic years 2007/2008 through 2009/2010.
- Established a MOU between UAE University and the Boundary Layer Wind Tunnel Laboratory (BLWTL) at the University of Western Ontario, Canada, May 2008.
- Delivered four hands-on workshops on “3-D Modeling and Analysis of Structures Using SAP2000” to civil and environmental engineering male and female students every academic year since the year 2005/2006 through 2007/2008.
- Organized and participated in the coordination of an academic visit by Prof. Alena Kohoutkova, Vice-Rector of Czech Technical University (CTU), Prague and Head of Department of Concrete and Masonry Structures and Dr. Petr Stemberk, Associate Professor, Department of Concrete and Masonry Structures, CTU, Prague to the Civil and Environmental Engineering Department at UAE University in November 2007.
- Contributed in the preparation and coordination of a Graduate Seminar to the CE Master’s

Program students that was delivered by external guest speaker Dr. Stewart C. Gallocher, Halcrow Group Limited, November 2007.

- Poster presentation on recent research activities, Construct Abu Dhabi 2006 Exhibition and Conference, April 4 – 5, 2006.

Continuous Professional Development Activities

- Successful completion of “CBP Project Management Training Course”, organized by Continuing Education Center (CEC), UAEU, 22-25 April 2018, Al Ain, UAE.
- Attended “QS WorldClass 2018 Conference – Changes in University/Industry Interaction”, April 17-18, 2018, Abu Dhabi, UAE.
- Attended a Seminar on “Preparing Versatile Scientists and scholars” by Dr. Suzanne Ortega – President of the Council of Graduate Schools (USA), Crescent Building Auditorium, 16 April 2018, UAE.
- Attended “Blended Teaching and Learning Symposium”, organized by Center for Excellence in Teaching and Learning (CETL), UAEU, March 14-15, 2018, Al Ain, UAE.
- Attended a Full-Day Academic Administrators Workshop on “Best Practices for Engaging Faculty in Driving Change”, by Dr. Kevin Reilly and Dr. Gilles Bousquet (University of Wisconsin), UAEU, February 11, 2018, Al Ain, UAE.
- Attended the “Blockchain Technology Conference”, Organized by Knowledgehut, January 25, 2018, Dubai, UAE.
- Attended a full-day workshop on “Trends in Promoting Higher Education Credibility, Validity and International Visibility”, organized by Abu Dhabi Department of Education and Knowledge (ADEK), UAE University, 12 December 2017, UAE.
- Attended a full-day workshop on “Quality Assurance and the Links with Qualifications Framework: International Trends”, organized by Abu Dhabi Department of Education and Knowledge (ADEK), Khalifa University, 20 November 2017, UAE.
- Attended a full-day workshop on “Risk-Based Reviews”, organized by Abu Dhabi Department of Education and Knowledge (ADEK), UAE University, 19 November 2017, UAE.
- Successful completion of “Building Structures and Sustainability - AWI111511” On-line webinar, Achieved Score 100%, Continuing Education Department, American Society of Civil Engineers, ASCE, November 6, 2016.
- Successful completion of “Significant Changes to the Wind Load Design Procedures of ASCE 7-10 - AWI100112” On-line webinar, Achieved Score 100%, Continuing Education Department, American Society of Civil Engineers, ASCE, November 8, 2016.
- Attended a workshop on “The Design and Build Process of the Hazaa Bin Zayed Stadium with Reference to FIFA World Cup Stadiums in South Africa and Germany” by Steven Wilbernninck, Product Manager BAM International, CIT, 25 November 2015, UAE.
- Attended the “2013-2014 Academic Leadership Orientation Workshop”, Crescent Building Auditorium, (2013-2014 and 2104-2015), UAE.
- Attended the “CurricUNET Workflow Workshop for Department Chairs and Originators”, November 2014, F1 Building, UAEU.
- Attended the “Academic Affairs Faculty Workshop”, September 2014, Crescent Building Auditorium, UAEU.

- Attended the “Faculty Evaluation Workshop”, April 2014, Crescent Building Auditorium, UAEU.
- Attended the “Learning Outcome Assessment Workshop” Special Session for Department Chairs, by Dr. Amy Driscoll, 2 October 2013, Business Center, UAEU.
- Attended a Seminar on “Quality Assurance and Program Evaluation” by Dr. Nancy Dye, Dr. Gary Ingersoll and Dr. Donald Baker. The seminar was held in the CIT, UAEU on Wednesday February 24, 2010.
- Attended a Workshop on “Using New Interactive System as a new Teaching Technique” by MIMIO Interactive System. , The workshop was held at UAEU on October 22, 2009.
- Attended a Workshop on “Innovative products and services for civil engineers and construction markets” by Mr. Neil Byrne, Representative of the Institute of Civil Engineers (ICE), UK. The workshop was held at UAEU on October 1, 2009.
- Attended a Workshop on “Faculty Promotion Procedure and Observations” by Dr. Nancy Dye and Dr. Essam Abdel Hafiz. The workshop was held in Multaqa Auditorium on October 1, 2009.
- Attended a Seminar on “Intelligent Finite Element Method: A New Approach to Constitutive Modeling in Finite Element Analysis” by Dr. Akbar A. Javadi, University of Exeter, UK. The seminar was held at UAEU on September 27, 2009.
- Participated in delivering a workshop on the “Program Outcomes Assessment” that was held in November 2007 for new faculty members who joined the department in the 2007/2008 academic year. Workshop included detailed explanation of the implementation of the in-house developed Excel spreadsheet for conducting the assessment.

Service Awards and Honors

- Awarded five appreciation certificates from the Civil and Environmental Engineering Students Society to recognize organizing and teaching four workshops on three-dimensional modeling using the program SAP2000, academic years 2005/2006 to 2011/2012.
- Recipient of a certificate of appreciation from Civil Engineering Graduates, batch# 40 (Female) to recognize support and encouragement of undergraduate students during their study period, academic year 2011/2012.
- Recipient of two certificates of appreciation from Civil Engineering Graduates (male and female) to recognize support and encouragement of undergraduate students during their study period, academic years 2006/2007 and 2007/2008.
- Recipient of a certificate of appreciation from Dean of College of Engineering, UAE University to acknowledge support of student societies’ activities, academic year 2007/2008.
- Recipient of a certificate of recognition from Architectural Engineering Graduates to acknowledge volunteer efforts in support of students and the department, academic Year 2007/2008.
- Recipient of the merit award for exceptional performance at the United Arab Emirates University, UAE, academic year 2006/2007.