

Tharwat Ali Sakr

Professor of Structural Engineering, Construction Project director, Structural design manager, Lead Structural Engineer, Technical Manager, MIS development manager,

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LinkedIn ☐ <https://www.linkedin.com/in/tharwat-sakr-ph-d-pmp-60353a123/>
Nationality: ☐ Egyptian
Date of Birth ☐ August 15, 1962

Tharwat Sakr is holding Ph.D. in structural Engineering and certificates related to the field of design and construction in addition to publishing as many as 35 technical papers in solving structural issues and having structural educational series through the web.

Over 35 years of experience in university teaching and extensive supervision in addition to wide practical experience in the construction market in design and construction. The experience includes working in different countries of the middle east (Egypt, Dubai, and Saudia Arabia) and being employed as developer, consultant, and contractor.

Tharwat Sakr is professional in problem solving and critical thinking, aware of information system development and using different languages and informational techniques, expert in structural analysis and design, and empowered in project management tools

Regards,

Tharwat A. Sakr
April 5, 2024

PERSONAL

Address: ☐ Dept. of Structural Engineering, Zagazig University,
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Nationality: ☐ Egyptian

Date of Birth ☐ August, 15, 1962

Current Position: ☐ Professor, Structural Engineering, Zagazig University
☐ Structural Design Consultant, Talaat Mostafa Group (TMG)

**EDUCATION**

1985 ☐ B.Sc. Civil Engineering in Construction (Civil), Zagazig University

1986 ☐ Training course in Programming with basic and system analysis & design,
American University in Cairo)

1991 ☐ M. Sc. in Structural Design, Zagazig University,
Thesis "Lateral Analysis of Non-Collinear Coupled Shear Walls"

1993 ☐ Training course in artificial Intelligence, Egyptian Engineers Syndicate

1995 ☐ ORACLE database training, ORACLE corporation

1997 ☐ Ph. D. in Structural Engineering, Zagazig University 1997,
Thesis "Knowledge Based System for Seismic Risk Assessment of Structures"

2006 ☐ Workshop in design of buildings using the UBC and ACI codes, Jabal Ali Free
Zone Authority (JAFZA)

2018 ☐ Project Management Professional (PMP), training,

PROFESSIONAL AFFILIATION

1985: Now ☐ Member of The Egyptian Engineers Syndicate

2006: Now ☐ UAE, Society of Engineers Member

2007: Now ☐ Approved by DUBAI Municipality as structural engineer, Unlimited Height.

2008: Now ☐ Accredited by JAFZA (TARAKHEES) as Structural Engineer

2013: 2017 ☐ Saudi Council of Engineers Member

2015: Now ☐ Consultant, Design of R. C. Structures (Egyptian Engineers Syndicate)

2018: 2019 ☐ Member, Project Management Institute (PMI)

2019: 2022 ☐ Project Management Professional (PMP), PMI (Expired)

Professional Skills

General ☐ Problem Solving, creative, and Critical thinking
☐ Communication, negotiation, and active listening
☐ Professional report writing, presentation skills

Information Tech. ☐ Using general Purpose Applications (Word, Excel, PowerPoint, Photoshop, etc.)
☐ Programming and Developing Applications using MS Access, Visual Basic,
C#.net, Fortran and Python
☐ Data base administration (MSSQL), design of database systems

Structural Eng.	<input type="checkbox"/>	Wide background about Artificial Intelligence Tools and Applications (Especially Genetic Algorithm).
	<input type="checkbox"/>	Using the Structural Analysis and Drafting Programs SAP 2000 – ETABS – SAFE – RAM – AutoCAD - Revit
	<input type="checkbox"/>	Structural design including full modeling, design, and detailing according to the UBC-IBC-ACI-ASCE-B.S.-CEP-SBC codes of practice,
	<input type="checkbox"/>	Wide background and aware about innovative engineering fields (3D printing, demolition by explosion, Structural health monitoring, ... ,etc.)
Project Management	<input type="checkbox"/>	Time, and cost management
	<input type="checkbox"/>	Value Engineering and fast track construction.
	<input type="checkbox"/>	Autodesk ACC, background, and implementation
Education	<input type="checkbox"/>	RFP, RFI, and RFQ evaluation and management
	<input type="checkbox"/>	Active teaching and E-learning
	<input type="checkbox"/>	High supervision, coaching skills
	<input type="checkbox"/>	Conflict resolution, and active leadership

Main Employment Record

1985: Now	<input type="checkbox"/>	Demonstrator: Professor, Dept of Structural Engineering, Zagazig University, Egypt.
2019: Now	<input type="checkbox"/>	Structural Design Consultant, and management member, Talaat Mostafa Group (TMG), Egypt.
2013: 1017	<input type="checkbox"/>	Head of Str. Design Dept., AJDAN Real Estate Development., KSA.
2006: 2009	<input type="checkbox"/>	Senior Structural Eng., Bel-Yoahah Eng. Consultants, Dubai.
2006: 2006	<input type="checkbox"/>	Coordinator, Modern Executive Systems Contracting, Dubai,
2005: 2005	<input type="checkbox"/>	Head of Structure dept., DIMENSIONS Eng. Consultants, Dubai.
1997: 2005	<input type="checkbox"/>	TMG Technical support for Structural Design of “AL REHAB” City, Egypt.
1994: 1996	<input type="checkbox"/>	Lecturer and construction management system developer, Egyptian National Company for Construction and Development.
1988: 1994	<input type="checkbox"/>	Lecturer, Computer using and programming courses (dBase, dBase programming, Basic, Pascal, C, AutoCAD, SAP2000, STAAD III), private centers

Professional Experience Record

Design & Design Management

Solving design problems related to waterproofing, and drainage of huge basements, 2022-2024

Architect/ Consultant: Varies

Role: Management, Coordination, and revision

- ☐ Hiring investigation companies for performing geophysical studies and specialist consultants
- ☐ Held meetings and workshops for discussion of the problems and proposed solutions.
- ☐ Study of proposals and follow up of execution.

Redesign of floors and foundation at MADINATY and NOOR cities, 2021-2024

Architect/ Consultant: Engineering Consultant Office (ECO), Prof. Ali AbdElRahman

Role: Management, Coordination, and revision

- ☐ Managing workshops for redesign for optimum performance and Value Engineering
- ☐ Managing, revision of redesigns

Rehabilitation of special cases in MADINATY (villas and buildings with crack problems), 2019-2024

Architect/ Consultant: Engineering Consultant Office (ECO), Prof. Ali AbdElRahman

Role: Management, Coordination, and revision

- ☐ Revision of strengthening works design and detailing
- ☐ Time Management and follow up
- ☐ Coordination between the consultant, Developer management, and contractor.

3B + G+3 Capital Care, Eye of the World, New Capital, Egypt, 2021.

Architect/ Consultant: Water Engineering & Environmental Consultations.

Role: Design management and revision

- ☐ Full structural modeling, design, detailing and coordination, Authority discussions and approval

B + G+2 SIS, BCCIS international schools (20,000 m² land area), Owest, Sixth October City (Cairo for Investment & Real Estate Development. CIRA), Egypt, 2021.

Architect/ Consultant: Signature Engineering Consultant.

Role: Design management, leading, and Revision

- ☐ Full structural modeling, design, detailing and coordination, Authority discussions

UG-Tank + G +2P + 8 Typ. + Roof + Pool + T. Roof, MERAAS ESTATES Building, Dubai, 2018.

Architect/ Consultant: Archdome Engineering consultants.

Role: Senior structural Engineer, Archdome Engineering consultants

- ☐ Full structural modeling, design, detailing and coordination
- ☐ Municipality submission, discussion and approval

AJDAN walk (Luxury B+ G+ one retail village) located in AL-Khobar, KSA, 2016.

Architect/ Consultant: Benoy International, London - Mott-McDonalds, Bahrain.

Role: Developer Head of structure department

- ☐ Evaluation of Consultant Proposals,
- ☐ Follow up, discussions and design progress
- ☐ design review of the structural design and leading Value Engineering sessions

AJDAN Rise (B + G + 3P + 6 Mid-Rise + 27 Typical) AL-Khobar, KSA, 2015.

Consultant: NORR international, Dubai

Role: Developer Head of structure department

- ☐ Evaluation of Consultant Proposals,
- ☐ Follow up, discussions and design progress
- ☐ design review of the structural design and leading Value Engineering sessions

AJDAN Water Front Project composing of (2B+5Podium+6 towers 26 Floor each) AL-Khobar, KSA, 2013 (Proposal)

Architect: Arabian Architects

Role: Developer Head of structure department (in house structural design)

- ☐ full modeling of the complex
- ☐ Design of pile foundation of Phase I.
- ☐ Tender document issuing as fast track phase
- ☐ Tender evaluation, negotiation and selection of contractor (HSSG)

Military Housing Project, Najran, KSA. 2012

Owner: General Directorate of Military Works, Kingdom of Saudi Arabia

Role: Contractor-assigned consultant

- ☐ Revision of structural design
- ☐ Value Engineering and design changes proposal.

Design, Revision and evaluation of Saudi Arabia RC Bridges 2011-2012

Consultant: Badr Consulting and Retrofitting

Contractor: **Al-Ayuni** Company, Kingdom of Saudi Arabia

Role: Third Party Consultant

- ☐ Assessment, Checking and Redesign of Bridge No. 05 at Station 53-084.471 Project
- ☐ Dualization of Al-Baha Mikhawa-Mudalief Road
- ☐ Inspection of Wadi Laya Bridge, Group No.05 Road No.2 Al Gulf Road including the analysis, Assessment and Checking the design.

Al Emarah 60-Story building, Ajman, UAE, 2011.

Consultant: AAYAN Engineering, UAE

Role: Third Party Consultant

- ☐ Development of full structural model
- ☐ Upgrading of the existing raft on piles
- ☐ Redesign of structural elements

Nasamat AL-Ryadh Project, Kingdom of Saudi Arabia, 2010

Owner: **TMG** Group

Role: Third Party Consultant

- ☐ Value Engineering, checking and redesign of Apartment and Villa buildings

Several projects in Dubai, 2006-2009 among them:

- ☐ **B+G+16+R, 150 Million UAD.** ATLANTIS Management Accommodation Building at Jumairah Village for ISTITHMAR.
- ☐ **B+G+16+R, 200 Million UAD.** ATLANTIS Staff Accommodation Building at Jumairah Village for ISTITHMAR.
- ☐ **2B+G+20 stories 500 Million UAD.** Hotel and office Buildings for Dubai Customs at Port Rashed, Dubai.
- ☐ **B+G+3P+19+R al BAREEQ** building at Dubai business bay

Consultant: Bel-Yohah Engineering Consultants, UAE

Role: Senior Structural Engineer

- ☐ Full Design including modelling, analysis, design and detailing
- ☐ Authority submission and discussions up to permit
- ☐ Other disciplines design and site coordination

B+G+24 Stories, Al-Rashdan Tower, Dubai Marina, 2006

Consultant: KEO international

Role: Contractor Tech. office coordinator

- ☐ Coordination of architectural-MEP-Structural works
- ☐ Shop drawing and technical office support

Several projects in Dubai and Sharjah, 2005 among them:

- ☐ 43 stories building, SHARJAH
- ☐ The Sheikh Zayed Twin Tower MUT (2B+G+1Mezz+51+4Mech) Dubai.
- ☐ The Palm Resort at Al Fujairah

- 33 stories Al Remethy building, Sharjah UAE
- The T1 Jumairah Lake Towers project (4B+G+34+1Mech+Roof) Dubai

Consultant: Dimensions Engineering Consultants, UAE

Role: Head of Structural Department

- Full design and coordination
- Authority submission, discussion, and permit.

Rehabilitation of the 12 story Nile Hotel 2004-2005

Owner: TMG Group

Role: Contractor technical support

- Technical support member in the project of including the repair works of various types
- Rising the building and adding swimming Pool above (2004-2005).
- Works includes the addition of micro-piles in the foundations, demolition of old parts, performing concrete and Fiber Carbon Jackets, and construction of steel hall building

AL REHAB City, New Cairo, Egypt, 1997-2005

Owner: TMG Group

Role: Contractor technical support

- Revision of design and value engineering
- Redesign of some building types
- Repair of the anticipated problems arising during construction and Design of site erections.

Management & IT developments

Talaat Mostafa Group (TMG)

- Supervision, management, and technical problem solving (Madinaty – NOOR – CILEA)

AJDAN Real Estate Dev. 2014-2016

- issuing of RFPs and evaluation of proposals related to consultants, vendors, and contractors.
- Release of Tender Documents, carrying out tender evaluation and negotiation with specialists.

TMG, EL-Rehab Project, 1997-2004

- Development of Information system for the control of construction subcontractor payment and progress and the estimation of client invoice (Visual Basic & Microsoft ACCESS) 1998-2003

National Company for Construction and Development, 1994-1996

- Lecturer and system developer in the Field of Construction Management and Cost Control. During this period developed a computer system called Site Management Information System “SMIS” used in Construction site management and cost control.
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Engineering & IT Education

Teaching several Structural Engineering courses including (1985:2024)

- Structural Analysis
- Foundation Engineering
- Structural Dynamics & Earthquake Engineering
- Computer aided Structural analysis and design

Supervising the B.Sc. Project (Computer Aided Structural Analysis and Design) for several years including lectures on high rise buildings and supervision of all project activities. 1997: 2024

Lecturer, Faculty of Technology at Abha - Saudi Arabia. February 2001 - June 2001. *Based on Credit Hours.*

Supervising of master and doctor thesis (Refer to supervision List)

Publishing of Technical Papers in local and international Journals and conferences (refer to publication List)

Developing and teaching the following computer courses for Private Institutions

□ AutoCAD	1989-1994
□ STAAD program	1988-1991
□ Management Information Systems	1999-2001
□ SAP80, SAP90, SAP2000	1993-2005
□ BASIC Languages	1988-1995
□ Data Base (dBASE, FOX Pro, MS ACCESS)	1988-2005
□ Visual Basic	1999-2005

List of Publications

- Azza M. Al-Ashmawy, Osman Shallan, *Tharwat A. Sakr* and Hanaa E. Abd-EL-Mottaleb, Numerical investigations of reinforcement concrete beams with different types of FRP bars, Structural Engineering and Mechanics, Volume 88, Number 6 (2023), 599-608, DOI: <https://doi.org/10.12989/sem.2023.88.6.599>
- Shallan, O., *Sakr, T.*, Khater, M., Ismail, A., Proposed Design Criteria for column strengthened using steel angles and strips, Frattura ed Integrità Strutturale, 60(2022) 1-12.
- Osman Shallan, *Tharwat Sakr*, Mahmoud Khater and Ahmed Ismail, Modeling of slender RC columns strengthened by steel angles and strips, Computers and Concrete, Vol. 28, No. 4 (2021) 361-367 (<https://doi.org/10.12989/cac.2021.28.4.361>)
- H. E. Abd-El- Mottaleb, *T. A. Sakr*, Multiple Connected Pendulum TMD (MCPTMD) For Vibration Control of Structures, INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 10, ISSUE 05, MAY 2021, URL: <https://www.ijstr.org/final-print/may2021/Multiple-Connected-Pendulum-Tmd-mcptmd-For-Vibration-Control-Of-Structures.pdf>
- Mohamed Shallan; Hanaa Abd El-Mottaleb; *Tharwat Sakr*; Ragab Shaker4, Response of Post-Tensioned Two Way Flat Slabs to Vibration, Egyptian Journal for Engineering Sciences and Technology, Vol 33, 2021, URL: <https://ejest.journals.ekb.eg/>
- M.Shallan, *T. Sakr*, R. Shaker, H. Abd-El- Mottaleb, Effect Of Openings On Post-Tensioned Flat Slab, INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 9, ISSUE 11, NOVEMBER, ISSN 2277 -8616, 2020, URL: <https://www.ijstr.org/final-print/nov2020/Effect-Of-Openings-On-Post-tensioned-Flat-Slab.pdf>
- Atef Eraky , *Tharwat A. Sakr* , and Riham Khalifa, Mitigation of progressive collapse of buildings resulting from accidental explosions, International Journal of Scientific & Engineering Research, Volume 8, Issue 3, March-2017 976 ISSN 2229- 5518, <https://www.ijser.org/researchpaper/Mitigation-of-progressive-collapse-of-buildings-resulting-from-accidental-explosions.pdf>
- *Tharwat Sakr*, Atef Eraky, Jala Esmat , Progressive Collapse Analysis of Multi-Story Space Frames, International Journal of Scientific & Engineering Research, Volume 8, Issue 2, Feb. 2017 ISSN 2229-5518, <https://www.ijser.org/researchpaper/Progressive-Collapse-Analysis-of-Multi-Story-Space-Frames.pdf>
- Osman Shallan, Atef Eraky, *Tharwat Sakr*, Mohamed Khozam. Structural Damage Detection using Genetic Algorithm by Static Measurements. *International Journal of Trend in Research and Development (IJTRD)*, ISSN: 2394-9333, Volume-4 | Issue-1, February 2017, <http://www.ijtrd.com/papers/IJTRD6601.pdf>

- *Tharwat .A. Sakr.* DEVELOPMENTS IN SUPER TALL BUILDINGS. *Review Article*, 2015.
- *Tharwat .A. Sakr.* Progressive Collapse Analysis of Reinforced Concrete Buildings Including Soil-Structure-Interaction. *International Journal of Civil and Structural Engineering Research* ISSN 2348-7607, 3(2), May-2015.
- *Tharwat .A. Sakr.* Vibration Control of Buildings by Using Partial Floor Loads as Multiple Tuned Mass Dampers. *HBRC Journal* (2015),
<https://www.sciencedirect.com/science/article/pii/S1687404815000334>
- Gouda A. Mohamed, *T. A. Sakr*, Ghada N. Mohamed. Post Tensioned Floors As An Economic Alternative In The Egyptian Market. *The Egyptian International Journal of Engineering Sciences and Technology* - Vol.17 - No.1, January 2014.
- Osman Shallan, Atef Eraky, *Tharwat Sakr*, Shaimaa Emad. Response of Building Structures to Blast Effects. *Intl. J. of Engg. and Innovative Technology (IJEIT)*, Volume 4, Issue 2, Aug. 2014
- *T.A. Sakr* and Hanaa E. Abd-El- Mottaleb. Parameters Affecting The Elasto-Plastic Behavior Of Outrigger Braced Walls To Earthquakes. *WASET I.J. of Civil, Structural, Construction and Architectural Engineering* Vol:8, No:7, ICEGSE 2014, *International Conference on Earthquake, Geological and Structural Engineering*, London, 2014.
- Osman Shallan, Atef Eraky, *Tharwat Sakr*, Abdalla Salama. Optimum Design of Space Tensegrity Dome. *International Journal of Engineering and Innovative Technology (IJEIT)* Volume 3, Issue 9, March 2014, www.ijeit.com/Vol%203/Issue%209/IJEIT1412201403_08.pdf
- Shallan O, *Sakr T.A.*, Eraky A., Hamdy, O. Optimization of Plane and Space Trusses Using Genetic Algorithms. *International Journal of Engineering and Innovative Technology (IJEIT)*, Volume 3, Issue 7, Jan. 2014,
- *Tharwat A. Sakr*, Atef Eraky, Osman Shallan and Sajad Kareem. Seismic Vulnerability of Buildings through Robust Database of Earthquakes and Buildings. *J American Science* 2013;9(7):378-385]. (ISSN: 1545-1003).
http://www.jofamericanscience.org/journals/am-sci/am0907/046_18561am0907_378_385.pdf
- *T.A. Sakr*, H.E. Abd-El- Mottaleb. Elasto-Plastic Behavior of Outrigger Braced Walls. *J American Science*;8(12):1230-1238]. (ISSN:1545-1003,) 2012
- *Sakr, T.A.* Response Of TMD Controlled Framed Buildings To Blast Effect. *The Egyptian International Journal of Engineering Sciences and Technology* - Vol.13 - No.1, January 2010.
- *Sakr, T.A.* The Application of Genetic Algorithm To The Optimization Of Outrigger Braced High Rise Buildings. *Ain Shams Journal of Civil Engineering (ASJCE)*, Vol. 1.No. 1 ISSN: 1687-8590, March, 2009.
- Abdel Salam S. S., Shallan O. E., *Sakr T. A.*, Fathy E. Methods To Mitigate Pounding. *Future Sustainable Skycities and Towers in the Present Millennium, The 7th International Conference on Multi-Purpose High Rise Towers and Tall Buildings*, Dubai, Dec.2005.
- Abd-Elsalam S, Shalaan O., *Sakr T.A.*, ElSayed, H. Nonlinear Seismic Analysis of Coupled Shear Walls-Soil Interaction. *Future Sustainable Sky-cities and Towers in the Present Millennium, The 7th International Conference on Multi-Purpose High Rise Towers and Tall Buildings*, Dubai, Dec.2005.
- Abdel Salam S. S., Shallan O. E., *Sakr T. A.*, Fathy E. Pounding influence on adjacent buildings with different dynamic properties. *Proceeding of The Eleventh International Colloquium on Structural and Geotechnical Engineering*, Ain Shams University, Cairo, Egypt, May, 2005
- *Tharwat .A. Sakr.* GENETIC ALGORITHM APPLICATION IN STRUCTURAL ENGINEERING. *Review Article*, 2004.
- *Sakr, T.A.* Modeling of Steel Reinforcement in Nonlinear Static and Dynamic Finite Elements. *AUEG, al Azhar University Engineering Journal*, Vol. 3, October 2004.

- Abd-Elsalam S, Shalaan O. *Sakr T.A.*, ElSayed, H. Behavior of Reinforced Concrete Coupled Shear Walls Under Seismic Excitation. *Ninth Arab Structural Engineering Conference (9ASEC)*, Abu Dhabi, 2003.
- Al-Tuhami A.A. and *Sakr, T.A.* Retrofit of Reinforced Concrete Columns Using Global Lateral External Pressure. *Composites in Construction International Conference (CCC)*, University of Calabria, Italy, 16-19 September 2003.
- El-Shamy E. *Sakr, T.A.* Non Linear Behavior of Stepped Shear Walls. *Second Internationals Specialty Conference on the conceptual approach to structural design*. Milan, Italy, 2003.
- Abd-Elsalam, S, Shalaan O, *Sakr, T.A.*, ElSayed. H. Earthquake Nonlinear Material Analysis Simulation of Reinforced Concrete Coupled Sheer Walls. *Fourth International Conference on Civil and Architecture Engineering*, Military Technical College, Cairo, 2002.
- *Sakr T.A.*, Sabry A. Ahmed. Seismic Analysis of Buildings with Soft Story”, *Fourth Alexandria International Conference on Structural and Geotechnical Engineering*, Alexandria, 2001.
- Al-Tuhami A.A. and *Sakr T.A.* An Innovative Technique for Strengthening Reinforced Concrete Columns Using Mechanical Confining”, *Eight Arabic Conference of Structural Engineering*, Cairo, 2000.
- Sayed Abd-Elsalam, Sadek A.W., Hany O. Soliman and *Sakr T.A.* Appraisal of Seismic Resistance of Existing Irregular Buildings using Strength and Drift Criteria in the Egyptian Code. *Eight Arabic Conference of Structural Engineering*, Cairo, 2000.
- Al Thuhami A.A and *Sakr T.A.* Suggested Technique for Strengthening Reinforced Concrete Columns Subjected to Dynamic Loads”, *Arabic Conference for Repair and Rehabilitation of Structures*, Cairo, Egypt, 1998.
- Sadek A.W., El Shihy, A.M. and *Sakr T.A.* Continuous Analysis of Non Collinear Coupled Shear Walls. *Engineering Research Journal*, University of Helwan, Vol.2, P.286-299, Egypt, 1995.
- Sadek A.W., El Shihy A.M. and *Sakr T.A.* Lateral Load Analysis of Non Collinear Coupled Shear Walls. *Fourth Arab Structural Engineering Conference*, Cairo, Egypt, 1991.

Thesis Supervision

- *Ahmed Ismail.*, Strengthening of reinforced Concrete long Columns, *Ph.D.*,
- *Azza Mahmoud.*, Hybrid Strengthening of reinforced Concrete beams with external post tensioning and FRP, *Ph.D, Ongoing*
- *Mohamed Shaalan.*, EFFECT OF OPENING IN THE BEHAVIOR OF POST-TENSION FLAT SLAB, *M.Sc, 2021*
- *Marwah Ahmed.*, Safety of Buildings against Progressive collapse due to abnormal loads, *M.Sc, 2017*
- *Mohamed Khozam*, Genetic Algorithm and Neural Networks application to Damage Detection of Structures, *M.Sc, 2017*
- *Jala Esmat*, Sensitivity of building collapse to design methods and structural systems, *M.Sc, 2017*
- Othman Hamdy, Optimization of Space Trusses Using Genetic Algorithm, *M.Sc.,2015*
- *Ghada Nashaat*, Analysis of the post tension floors for optimum behavior and economic design, *M.Sc.,2015*
- *Abdallah Salamah*, Optimum Design of Space Tensegrity Structures, *M.Sc, 2014*
- *Shaimaa Emad*, Risk Mitigation Of Building Against Blast Loads, *M.Sc, 2014*
- *Sajad Kareem*, Characterization of Seismic Risk of Structures through Robust Database Framework, *M.Sc, 2013*

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- *Hanaa El-Sayed*, Earthquake Nonlinear Modeling of R.C Buildings Including Foundation Soil Interaction, *Ph.D., 2005*.
 - *Ebtsam Fathy*, Seismic Pounding between Adjacent Buildings with different Dynamic Properties, *M.Sc, 2005*
 - *Hanaa El-Sayed*, Nonlinear Dynamic Analysis of Coupled shear Walls, *M.Sc, 2002*
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INTERNET COURSES

- Lectures in Building design using ETABS and SAFE, Post Tension Design USING RAM , and earthquake engineering (<https://www.youtube.com/user/tharwatsakr>)
-