Curriculum Vitae of Yousef Saleh Al Rjoub

Department of Civil Engineering, Faculty of Engineering
Jordan University of Science and Technology (JUST)
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SUMMARY:

- Currently a professor at the Department of Civil Engineering at Jordan University of Science and Technology (JUST).
- Earned a Ph.D. in Civil Engineering from the University of Southern California, an M.Sc., and B.Sc. Degrees in Civil Engineering from JUST.
- Practical experience in the design and construction of reinforced concrete structures in Jordan.
- Received Dissertation Completion Fellowship Award, The Graduate School, University of Southern California, USA.
- Taught several graduate and undergraduate courses at JUST, Jerash Private University, and the University of Southern California at Los Angeles.
- The main research interests are in the field of structural dynamics and strengthening and repair of reinforced concrete structures. The ongoing research program focuses on free and forced vibrations of functionally graded structures.
- Published a total of 26 journal papers, conference papers, and technical reports; and received six funded projects form the Deanship of Scientific Research at JUST.
- Established collaboration with researchers from JUST. I am a true believer in collaborative and multidisciplinary research.
- Advised 14 graduate students in their research projects, 35% female students.
- Disseminated innovative research results in several prestigious national and international conferences and symposiums.
- Supervised graduation projects for more than 150 undergraduate students.
- Provided services for professional societies and committees, evaluated research proposals, and manuscripts for national, regional, and international journals.
- Provided services at the department, faculty, and university levels at JUST.
- Served as chair or committee member of several examining committees for graduate students from JUST, and the University of Jordan.

EDUCATION:

- **Ph.D.** University of Southern California, Civil Engineering May 2007.
- **M.S.** Jordan University of Science and Technology, Structural Engineering January 2000.
- **B.S.** Jordan University of Science and Technology, Structural Engineering January 1997.

Theses:

- Ph.D. Thesis: “Soil-Structure Interaction in Poroelastic Soils”, University of Southern California, in partial fulfillment of the requirements for Ph.D. degree in Civil Engineering.
- M.S. Thesis: “Forced Vibration of Sandwich Beams”, Jordan University of Science and Technology, in partial fulfillment of the requirements for M.Sc. degree in Civil Engineering.

PROFESSIONAL EXPERIENCE (Academia):

- **Professor**, Jordan University of Science and Technology, Civil Engineering Department, (Spring 2021-Present).
- **Associate Professor**, Jordan University of Science and Technology, Civil Engineering Department, (Fall 2016-Fall 2021).
- **Assistant Professor**, Jordan University of Science and Technology, Civil Engineering Department, (Spring 2009-Spring 2016).
- **Assistant Professor**, Jerash Private University, Civil Engineering Department, (Fall 2007-Fall 2008).
- **Part-time Assistant Professor**, Jordan University of Science and Technology, Civil and Environmental Engineering Department, (Fall 2007-Fall 2008).
- **Teaching Assistant**, University of Southern California, Civil and Environmental Engineering Department, (Spring 2005-Fall 2006).
- **Research Assistant**, University of Southern California, Civil and Environmental Engineering Department, Research advisors: Prof. Maria I. Todorovska and Prof. Mihailo D. Trifunac (Spring 2005-Summer 2007).

PROFESSIONAL EXPERIENCE (Industry)

- **Structural Project Manager,** Abu Hijleh Construction Company, Amman (January 2003-Decemebr 2004), Construction of Iedown Hospital.
- **Site Engineer,** Abu Abed Construction Company, Irbid (January 2000-January 2003), Construction of High school Buildings.

AWARDS and WORKSHOPS:

- Dissertation Completion Fellowship Award, The Graduate School, University of Southern California, Fall 2006.
- Statistical Package for Social Sciences. Jordan University of Science and Technology, Irbid, Jordan. January 14-15, 2014.
- Development of Curriculum and Study plans. Jordan University of Science and Technology, Irbid, Jordan. January 19-20, 2014.
- Basics of Distance Education. Jordan University of Science and Technology, Irbid, Jordan. October 26-29, 2020.
- Exams and Assessment. Jordan University of Science and Technology, Irbid, Jordan. October 25- November 01, 2020.

TEACHING INTERESTS:

Engineering Statics, Strength of Materials, Dynamics, Numerical Methods for Engineers, Structural Analysis (classical, non-matrix methods), Matrix Structural Analysis (matrix methods and computer applications), Structural Dynamics, Applied Elasticity, Earthquake Engineering, and Stability of Structures.

TEACHING EXPERIENCE:

- **Professor,** Jordan University of Science and Technology (Spring 2021-Present)
- **Associate Professor,** Jordan University of Science and Technology (Fall 2016-Fall 2021)
- **Assistant Professor,** Jordan University of Science and Technology (Spring 2008-Fall 2016)
- **Assistant Professor,** Jerash Private University (Fall 2007-Fall 2008)

- **Part-time Assistant Professor,** Jordan University of Science and Technology (Fall 2007-Fall 2008)
- **Part-time Assistant Professor**, Al Isra Private University (Summer 2007)
- **Teaching Assistant,** University of Southern California (Spring 2005-Spring 2006)
- **Teaching Assistant,** Jordan University of Science and Technology (January 1998-January 2000)

TEACHING LOAD AT JUST

A faculty member in the Civil Engineering Department at JUST has a high teaching load due to the high demand for civil engineering at all levels (B.Sc., M.Sc., and Ph.D.). The academic load per semester for an associate professor in the Civil Engineering Department at JUST is 15 credit hours distributed as follows:

- 9 credit hours for teaching 3 courses with average size of 50 students per section.
- 1.5 credit hours for supervising Graduation Project I students (at least six students, 0.25 credit hour per each student).
- 3 credit hours for supervising another six Graduation Project II students (0.5 credit hour per each student).
- 1.5 credit hours for advising three M.Sc. students (on average) for their thesis work (0.5 credit hour per each M.Sc. student).

COURSES TAUGHT

Jordan University of Science and Technology (JUST)

Undergraduate Level

- CE 201–Statics.
- CE 202– Strength of Materials.
- CE 203 – Engineering Mechanics (for architecture students).
- CE 204 – Dynamics.
- CE 301– Dynamics for Civil Engineers.
- CE 332 – Structural Analysis I
- CE 431– Structural Analysis II
- CE 533– Matrix Analysis of Structures
- CE 534– Advanced Structural Analysis and Design

Graduate Level

- CE 732– Structural Dynamics.
- CE 736– Advanced Structural Mechanics.
- CE 737 – Numerical Methods in Structural Engineering.
- CE 734- Stability of Structures.

Jerash Private University

- CE204 – Dynamics.
- CE206 – Probability and Statistics (For Engineering Students).
- CE203 – Statics.
- CE332 – Structural Analysis I.

RESEARCH INTERESTS:

- Structural Dynamics.

- Strengthening and repair of reinforced concrete structures using near-surface-mounted carbon-fiber-reinforced polymers.
- Earthquake Engineering.

RESEARCH EXPERIENCE:

- **Directed Doctoral Research,** University of Southern California, (Spring 2005-Summer 2007); Research advisors: Prof. Maria I. Todorovska and Prof. Mihailo D. Trifunac.

  - Dynamic and kinematic soil-structure interaction in a poroelastic homogeneous half-space, fully saturated by a viscous fluid.
  - Free-field motions in a poroelastic homogeneous half-space, fully saturated by a viscous fluid, and excited by incident plane P and SV waves and surface Rayleigh waves.
  - Free-field motions in a poroelastic layered half-space, fully saturated by a viscous fluid, and excited by incident plane P and SV waves and surface Rayleigh waves.
  - Effects of rainfall on soil-structure system frequency for buildings supported by embedded foundations.
  - Effects of finite soil permeability on the free-field motion, and on foundation stiffness and damping during soil-structure interaction.

- **Graduate Research,** Jordan University of Science and Technology (January 1998-January 2000); Research advisor: Prof. Karim S. Numayr
  - Forced vibration of sandwich beams.

Research Grants:

1. **Project title:** The effect of cover size and the NSM FRP stirrups inclination and length on the behavior of reinforced concrete beams, Deanship of Scientific Research (JUST), **Amount of Fund:** 5,750 JD = 8,200 USD.
2. **Project title:** Strengthening of self-compacted concrete slabs using near surface mounted (NSM) fiber reinforced polymers (FRP) technique, Deanship of Scientific Research (JUST), **Amount of Fund:** 5,550 JD = 7,900 USD.
3. **Project title:** The effect of length, inclination and spacing of Near Surface Mounted (NSM) Carbon Fiber Reinforced Polymer (CFRP) strips on the shear strengthening of reinforced concrete beams, Deanship of Scientific Research (JUST), **Amount of Fund:** 4,435 JD = 6,350 USD.
4. **Project title:** Mechanical properties and durability of roller compacted concrete containing oil shale ash as partial replacements of cement, Deanship of Scientific Research (JUST), **Amount of Fund:** 5,040 JD = 7,200 USD.
5. **Project title:** The Effect of Using White Cement bypass Dust and fibers on mechanical and durability behavior of Roller Compacted Concrete, Deanship of Scientific Research (JUST), **Amount of Fund:** 4,600 JD = 6,570 USD.
6. **Project title:** Flexural behavior of heat damaged reinforced concrete beams repaired using externally bonded hybrid fiber reinforced polymers, Deanship of Scientific Research (JUST), **Amount of Fund:** 6,100 JD = 8,720 USD.

SCIENTIFC PUBLICATIONS: Journal Articles (published):

1. Todorovska, M. I., and **Yousef S. Al Rjoub** (2006). Plain Strain soil-structure interaction model for a building supported by a circular foundation embedded in a poroelastic half-space, Soil Dynamics and Earthquake Engineering, Vol. 26, No. 6-7, 694-707, (Special issue on Biot Centennial – Earthquake Engineering). ***Top 25 Hottest Articles (Soil Dynamics and Earthquake Engineering) July-September 2006.***
2. Todorovska, M. I., and **Yousef S. Al Rjoub** (2006). Effects of rainfall on soil-structure system frequency: examples based on poroelasticity and a comparison with full-scale measurements, Soil Dynamics and Earthquake Engineering, Vol. 26, No. 6-7, 708-717, (Special issue on Biot Centennial – Earthquake Engineering).
3. Todorovska, M. I., and **Yousef S. Al Rjoub** (2009). Environmental effects on measured structural frequencies-model prediction of short-time shift during heavy rainfall and comparison with full-scale observations, Structural Control and Health Monitoring, Vol. 16, Issue 4, 406-424.
4. Karim S. Numayr, and **Yousef S. Al Rjoub (**2012). Comments on the understanding of the virtual work method, International Journal of Civil and Structural Engineering, Vol. 2, No 3, 763-774.
5. Karim S. Numayr, **Yousef S. Al Rjoub**, Abdalla M. Qudah, and Khair Al-Deen I. Bsisu (2012). Resistance of exterior three-dimensional walls to high velocity projectiles, Composites part B-Engineering, Vol. 43, 3431-3435.
6. **Yousef S. Al Rjoub** (2013). The reflection of P-waves in a poroelastic half-space saturated with viscous fluid, Soil Dynamics and Earthquake Engineering, Vol. 49C, 218-230.
7. Karim S. Numayr, and **Yousef S. Al Rjoub (**2013). Two analogous methods for estimating the compressive strength of fibrous composites. Composites part B-Engineering, Vol. 50, 290-296.
8. **Yousef S. Al Rjoub,** and Karim S. Numayr **(**2014). Prediction of the Compressive Strength of Fibrous Composites Using Two Different Approaches, Jordan Journal of Civil Engineering, Vol. 8, No. 2, 165-179.
9. **Yousef S. Al Rjoub**, Karim S. Numayr, and Butainah M. Al-Qudah (2016). A Three-Dimensional Micro-Mechanical Model for Predicting the Layer Longitudinal Compression Strength of Composite Laminate, KSCE Journal of Civil Engineering, Vol. 20, No. 4, 1437-1442.
10. **Yousef S. Al Rjoub**, and Azhar G. Hamad (2017). Free Vibration of Functionally Euler-Bernoulli and Timoshenko Graded Porous Beams Using the Transfer Matrix Method, KSCE Journal of Civil Engineering, Vol. 21, Issue 3, 792–806.
11. **Yousef S. Al Rjoub**, and Azhar G. Al Hamad (2019). Free Vibration of Axially Loaded Multi-Cracked Beams Using the Transfer Matrix Method, International Journal of Acoustics and Vibration, Vol. 24, No.1, 119-138.

12. **Yousef S. Al Rjoub**, Ahmed M. Ashteyat, Yasmeen T. Obaidat & Saleh Bani-Youniss (2019). Shear strengthening of RC beams using near surface mounted carbon fibre-reinforced polymers, Australian Journal of Structural Engineering, Vol. 20, Issue 1, 54-62.
13. AM Ashteyat, **Yousef S. Al Rjoub**, Y Murad, S Asaad (2019). Mechanical and durability behaviour of roller-compacted concrete containing white cement by pass dust and polypropylene fibre, European Journal of Environmental and Civil Engineering, 1-18
14. **Yousef S. Al Rjoub**, M Hijazi (2019). Impact Resistance of Steel Fiber-Reinforced Concrete Panels Using Genetic Algorithm Optimization, Advances in Civil Engineering Materials Vol.8, Issue 1, 463-476.
15. AM Ashteyat, **Yousef S. Al Rjoub,** AT Obaidat, H Dagamseh (2019). Strengthening and repair of one-way and two-way self-compacted concrete slabs using near-surface-mounted carbon-fiber-reinforced polymers, Advances in Structural Engineering, Vol. 22, Issue 11, 2435-2448.
16. **Yousef S. Al Rjoub**, and Mohammad F. Tamimi (2019). Heat transfer and thermal shock of recycled glass concrete, Magazine of Civil Engineering, Vol. 91, no. 7, 27-38.
17. **Yousef S. Al Rjoub,** and Azhar G. Al Hamad (2020). Free vibration of axially loaded multi-cracked Timoshenko beams, Magazine of Civil Engineering, Vol. 100, no. 8, 1-25.
18. **Yousef S. Al Rjoub,** and Azhar G. Al Hamad (2020). Forced vibration of axially-loaded, multi-cracked Euler-Bernoulli and Timoshenko beams, Structures, Vol. 25, 370-385.
19. **Yousef S. Al Rjoub,** and Jinan A. Alshatnawi (2020). Free vibration of functionally-graded porous cracked plates, Structures, Vol. 28, 2392-2403.
20. AM Ashteyat, **Yousef S. Al Rjoub**, Amani Smadi, and MS Kırgız (2020). Reuse of oil shale ash in the roller compacted concrete for earthquake engineering and durability, Journal of Advanced Composite Materials, Construction, Environment, and Nano Technology.

Papers in Conference and Workshop Proceedings:

1. Todorovska, M.I., and **Yousef S. Al Rjoub** (2007). Effects of Rainfall on Soil-Structure System Frequency: Examples based on Poroelasticity and a Comparison with Full-Scale Measurements, *Proc. 8th National Conference on Earthquake Engineering* (commemorating the 100th anniversary of the 1906 earthquake), April 18-22, 2006, San Francisco California. Abstract Number: SSA-000049.
2. Todorovska, M. I., and **Yousef S. Al Rjoub** (2007). Soil-Structure-Interaction in a poroelastic medium and short term building frequency shift following heavy rainfall- the case with seepage force, Proc. 4th UJNR Workshop on Soil-Structure Interaction, March 29-31, 2007, Tsukuba, Japan, pp. 19.
3. Karim S. Numayr and **Yousef S. Al Rjoub** (2008). Forced Vibration of Sandwich Beams, 16th Annual International Conference on Composites/Nano Engineering, July 20-26, 2008, Kunming, China.

4. Todorovska M.I**., Yousef S. Al Rjoub** (2009). Soil-structure interaction and Biot's theory of wave propagation in poroelastic media as possible explanation for observed changes of apparent frequencies of vibration of a building with heavy rainfall, Proc. The Fourth Biot Conference on Poromechanics, Columbia University, New York, June 8-10, 2009, pp. 6.
5. **Yousef S. Al Rjoub** (2013). The reflection of SV-waves in a poroelastic half-space saturated with viscous fluid, Recent Advances in Structural Dynamics 2013 (RASD2013), 01-03 July 2013, Pisa, Italy.
6. **Yousef S. Al Rjoub** and Osama Abedaljaber (2014). Free and forced vibration of rectangular plates using the finite difference method, 2014 4th International Conference on Green Buildings, Materials, and Civil engineering, 21-22 August 2014, Hong Kong, China.

Journal Articles (Submitted for publications):

1. **Yousef S. Al Rjoub,** and Azhar G. Al Abodi (2021). Forced Vibration of Functionally Euler-Bernoulli and Timoshenko Graded Porous Beams.
2. **Yousef S. Al Rjoub,** AM Ashteyat, AT Obaidat and Khaled Al Shboul (2021). Experimental and Analytical Investigation of Using Externally-Bonded, Hybrid, Fiber-Reinforced Polymers to Repair and Strengthen Heated, Damaged RC Beams in Flexure.
3. **Yousef S. Al Rjoub,** AM Ashteyat, and Mohammad I. Al-Zu'bi (2021). The Effect of Near-Surface Mounted Carbon Fiber Reinforced Polymer Strips on Shear Strengthening of RC Beams.

COLLABORATIONS (True believer of collaborative research)

- Prof. Karim S. Numayr, Department of Civil Engineering, Faculty of Engineering, Al Isra Private University, Amman, Jordan.
- Prof. Ahmed M. Ashtyat, Department of Civil Engineering, Faculty of Engineering, The University of Jordan, Amman, Jordan.
- Dr. Khair Al-Deen I. Bsisu, Department of Civil Engineering, Faculty of Engineering, The University of Jordan, Amman, Jordan.
- Dr. Yasmeen M. Murad, Department of Civil Engineering, Faculty of Engineering, The University of Jordan, Amman, Jordan.
- Dr. Al'a T. Obaidat, Department of Civil Engineering, Faculty of Engineering, Philadelphia University, Amman, Jordan.
- Dr. Yasmeen T. Obeaidat, Department of Civil Engineering, Faculty of Engineering, Jordan University of Science and Technology, Irbid, Jordan.
- Dr. Abdalla M. Qudah, Department of Civil Engineering, Faculty of Engineering, Jordan University of Science and Technology, Irbid, Jordan.

PROFESSIONAL SERVICE

Professional Affiliations

- Jordan Engineers Association (JEA).

Review Process

Reviewer for the following journals:

- Composite part b structures
- Magazine of Civil Engineering
- Soil Dynamics and Earthquake Engineering
- Steel and Composite Structures, An International Journal
- Construction and Building Materials
- Composite Structures
- International Journal of Structural Stability and Dynamics
- Structures
- Advances in Structural Engineering

STUDENT ADVISEMENT

Supervised the following M.S. Thesis:

1. A Micro-Mechanical Model for Predicting the Compressive Strength of Composite Laminates, by: Buthainah Al-Qudah **(currently is a senior engineer at a leading firm in the U.A.E.).**
2. An analytical solution of free and forced vibration of multi-cracked beam including bending, axial loading, rotational inertia, shear deformation and coupling effects, by Azhar G. Al Abodi **(currently is a Ph.D. student at University of Basrah, IRAQ).**
3. Dynamic behavior of Reinforced concrete beams subjected to moving loads, by Yasmeen G. Abdelkareem.
4. The effect of cover size and the NSM FRP stirrups inclination and length on the behavior of reinforced concrete beams, by Saleh Y. Bani-Youniss. **(currently is a senior engineer at a Ministry of Water and Irrigation, Jordan).**
5. Strengthening of self-compacted concrete slabs using near surface mounted (NSM) fiber reinforced polymers (FRP) technique, by Huthaifah M. Dagamseh.
6. The effect of length, inclination and spacing of Near Surface Mounted (NSM) Carbon Fiber Reinforced Polymer (CFRP) strips on the shear strengthening of reinforced concrete beams, by Mohammad I. Al-Zubi, **(currently is a Ph.D. student at Brunel University London, UK).**

7. Mechanical properties and durability of roller compacted concrete containing oil shale ash as partial replacements of cement, by Amany Smady, **(currently is a senior engineer at a leading firm in the KSA).**
8. The Effect of Using White Cement bypass Dust and fibers on mechanical and durability behavior of Roller Compacted Concrete, by Samaher Asad. **(currently is a lecturer at Al-Zaytoonah University, Jordan).**
9. Flexural behavior of heat damaged reinforced concrete beams repaired using externally bonded hybrid fiber reinforced polymers, by Khaled Al Shboul, **(currently is a Ph.D. student at Kansas State University, USA).**
10. Study the Effect of Thermal Shock due to Rapid Cooling and Thermal Conductivity on the Recycled Glass Concrete, by Mohammad Altamimi. **(currently is a Ph.D. student at Oklahoma State University, USA).**
11. Free vibration of functional graded porous plates, by Jinan Alshatnawi, **(currently is a senior engineer at a leading firm in the U.A.E.).**

Supervising more than 150 undergraduate students in their graduation projects:

The projects included structural static and dynamic analysis and, design such as:

- Reinforced and prestressed concrete structures, steel structures, water tanks, culverts, bridges, and domes, different foundation elements including strip and mat foundations, and piles, waffle slabs and folded plates.
- Three-dimensional panel structural system.

GRADUATE STUDENTS COMMITTEE MEMBERSHIP

At Jordan University of Science and Technology

1. Qusai Ailabouni, M.Sc. Thesis, “Determination of an Appropriate Passive Base Isolation System for Irregular Buildings Subjected to Earthquake Loading,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2009.
2. Mohammed Abu Safaqah, M.Sc. Thesis, “Analysis of the Driving Force of a Generally Oriented Crack in a Functionally Graded Strip Sandwiched Between Two Homogeneous Layers of Finite Thickness,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2013.
3. Hashem Mashagbeh, M.Sc. Thesis, “Strengthening of Reinforced Concrete Columns Using Nanocomposites-CFRP Hybrid Sheets,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2015.
4. Abedlmalek Al Jarrah, M.Sc. Thesis, “New anchorage technique for near surface mounted-fibre reinforced polymer flexural strengthened beam using steel clamped end plate,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2019.

5. Suhaib Al Faras, M.Sc. Thesis, “Behaviour of Damaged rectangular Reinforced Concrete Column Repaired with Unidirectional carbon fiber cord,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2020.
6. Noor Aleslam Al Khazalah, M.Sc. Thesis, “Prediction of ultimate fiber reinforced polymer sheet strain and ultimate load confined circular reinforced concrete columns using finite element analysis and artificial neural network,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2020.
7. Hashem Abu Zakham, M.Sc. Thesis, “Shear Capacity of Recycled Aggregate Concrete Beams Strengthened with NSM-CFRP,” Civil Engineering Department, Faculty of Engineering, Jordan University of Science and Technology, 2021.

Outside Jordan University of Science and Technology

1. Hammad Al Shamari, M.Sc. Thesis, “Strengthening of RC Beams for Torsion Using Near Surface Mounted Fiber Reinforced Polymer Strips”, Civil Engineering Department, School of Engineering, The University of Jordan, 2018.
2. Rawan Al Trawneh, M.Sc. Thesis, “Ultimate bond strength assessment of recycled asphalt pavement aggregate and recycled concrete aggregate”, Civil Engineering Department, School of Engineering, The University of Jordan, 2018.
3. Enas Al Rajhi, M.Sc. Thesis, “Shear behavior of reinforced concrete beam with recycled asphalt pavement (RAP) aggregate and recycled reinforced concrete aggregate (RAC) at high temperature”, Civil Engineering Department, School of Engineering, The University of Jordan, 2019.
4. Arij Altarwneh, M.Sc. Thesis, “Effect of temperature on mechanical properties of Reclaimed Asphalt Pavement Concrete (RAP) and Recycled Aggregate Concrete (RCA)”, Civil Engineering Department, School of Engineering, The University of Jordan, 2019.
5. Daneh Al Trawneh, M.Sc. Thesis, “Strengthening and repairing of circular reinforced concrete columns damaged by pre loading using near surface mounted (NSM) carbon fiber reinforced polymers (CFRP) (rope) technique”, Civil Engineering Department, School of Engineering, The University of Jordan, 2019.
6. Aseel Al Botosh, M.Sc. Thesis, “Strengthening and repairing of circular reinforced concrete columns damaged by heat using near surface mounted (NSM) carbon fiber reinforced polymers (CFRP) (rope) technique”, Civil Engineering Department, School of Engineering, The University of Jordan, 2019.
7. Baenh Al Tawabeh, M.Sc. Thesis, “Assessing the Effect of Recycled Asphalt Pavement and Recycled Aggregate Concrete on Roller Compacted Concrete with Silica Fume”, Civil Engineering Department, School of Engineering, The University of Jordan, 2020.
8. Oday Al Qaisi, M.Sc. Thesis, “Flexural capacity of reinforced concrete beams using side near surface mounted (SNSM) carbon fiber reinforced polymers (CFRP) (strip and rope) technique”, Civil Engineering Department, School of Engineering, The University of Jordan, 2020.

9. Alaa Moreb, M.Sc. Thesis, “Bending Moments and Shear Forces Multiplication Factor for (AASHTO) Live Loads in Bridges Adopted in Jordan for Four Unequal Spans with Skew Angles”, Civil Engineering Department, School of Engineering, The University of Jordan, 2020.
10. Ruba Abu Alhayja'a, M.Sc. Thesis, “Parametric study on the effect of different hole sizes on the steel plate strength under axial compressive loading”, Civil Engineering Department, School of Engineering, The University of Jordan, 2020.
11. Khalid Al Zoubi, M.Sc. Thesis, “Comparative Study of Losses in Pre-Tensioned and Post-Tensioned Prestressed Concrete using Various Codes”, Civil Engineering Department, School of Engineering, The University of Jordan, 2020.

UNIVERSITY, FACULTY AND DEPARTMENT SERVICES

At Jordan University of Science and Technology, Irbid, Jordan (2009-present)

- Acted as a member of the supreme committee to supervise the elections of the Union of University Students at its 19th and 20th sessions for the academic years 2010/2011, and 2011/2012.
- Acted as a member of the ABET Committee for the Civil Engineering Program that managed to achieve ABET accreditation to the department from 2020 to 2025.
- Acted as a member of the committee that prepared the study plan for the doctoral program in Civil Engineering at Jordan University of Science and Technology.
- Served in the following committees in the Civil Engineering Department at Jordan University of Science and Technology.

  - Secretary of the Department Council.
  - Member of the laboratory and tender committee.
  - Member of Engineering training practice.
  - Member of the seminars and community service committee.
  - Member of the public safety committee.
  - Chair of Website committee.
  - Chair of the social committee.

At Jerash Private University, Jerash, Jordan (2007-2009)

- Acted as a member of the committee that prepared the study plan for the Bachelor program in Civil Engineering Department.
- Acted as a member of the committee responsible for studying the offers for the Tender for the purchase of equipment for the Civil Engineering Department laboratories.