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**Academic Curriculum Vitae**



**Personal Information:**

Full Name: Ghassan Marooki Werdina Kaka

Academic Title: Lecturer

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**Education:**

* Ph.D. in Structural Engineering and Construction Materials, Salahaddin University -Erbil, Iraq, July 2021.
* Master of Science in Civil Engineering (Structures), Salahaddin University -Erbil, Iraq, February 1992.
* Bachelor of Science in Civil Engineering, Salahaddin University - Erbil, Iraq, 1986.
* High School Certificate, Ainkawa High School, Erbil, Iraq, 1982.

**Employment:**

2021-current Lecturer- Salahaddin University - Erbil, College of Engineering.

2010-2021 Assistant Lecturer- Salahaddin University - Erbil, College of Engineering.

1995-1995 Structural Engineer- Shelter Now International, Erbil.

1993-1995 Field Officer- CARE International, Erbil.

1992-1992 External Lecturer- Salahaddin University - Erbil, College of Engineering.

1992-1992 Structural Engineer- Shelter (KSRO), Erbil.

1986-1989 Civil Engineer- Erbil.

**Qualifications**

-Teaching Qualifications:

1. Engineering Mechanics: Lectured, prepared materials, conducted tutorials, and assessed first-year students in engineering mechanics.

2. Mechanics of Materials: Taught concepts, used visual aids, and evaluated second-year student progress.

3. Theory of Structures: Instructed on structural analysis and design, incorporated real-world examples, encouraged participation, and mentored third-year students in design projects.

4. Construction Methods and Estimation: Covered project planning, cost estimation, and techniques for fourth-year students, utilized hands-on activities, and provided guidance on industry standards.

5. Mathematics II: Taught calculus and differential equations to second-year Electrical Department students, facilitated problem-solving sessions, and assessed mathematical proficiency.

6. Concrete Design: Effectively taught principles, delivered comprehensive lectures, developed course materials, and evaluated student progress in concrete design.

7. Water Resources Engineering Structures: Instructed high diploma students, developed comprehensive materials, assessed performance, and provided personalized feedback.

8. Engineering Projects: Guided fourth-year students, assisted in project selection and execution, evaluated outcomes, and assessed presentation skills.

* IT qualifications
* Structural analysis and design: Staad Pro, SAP, Sta4cad, Autodesk Robot Structure Analysis, Orion R14, CSC Building Designer, CSC Portal Frame, SAFE, STRAP, Prokon, TEKLA, S-Frame, Autocad Structural Detailing, Revit Structure.
* Design and drafting: AutoCAD, Autocad Structural Detailing, Sketch up, 3d max, 3D Home.
* Database : Access, SPSS, FoxPro, EPI Info, Dev Info
* Mapping: GIS, MapInfo
* Other Programs: Excel, Word, MS-DOS, Visual Basic, PowerPoint
* The application used for Bologna system
* Language qualifications:
* IELTS 6.5

**Teaching experience:**

Undergraduate Students:

* Engineering Mechanics – 1st Year, College of Engineering-Water Resources Department.
* Mechanics of Materials – 2nd Year, College of Engineering-Water Resources Department.
* Theory of Structures-2nd Year, College of Engineering - Water Resources Department.
* Construction Methods and Estimation-4th Year, College of Engineering - Water Resources Department.
* Mathematics II – 2nd Year, College of Engineering – Electrical Department.
* Engineering Projects – 4th Year, College of Engineering - Water Resources Department.
* Concrete Design, 4th Year, Architectural Engineering-Cihan University-Erbil
* Building Elements, 2nd Year, Architectural Engineering-Cihan University-Erbil.

Postgraduate Students:

* Water Resources Engineering Structures, High Diploma Students, College of Engineering-Water Resources Department.

**Research and publications**

* “Behavior of Anchorage Zone in Post-Tensioning Prestress Concrete Girder”, Ph.D. Dissertation, 2021.
* “Interaction between the Local and General Zone for the Post-tensioned Girder Anchorage Zone”, The Open Civil Engineering Journal, 2020.
* “Anchorage Zone Stresses Model of Interior Diaphragm for Segmental Box Girder Bridge”, Polytechnic Journal, Erbil Polytechnic University, 2019.
* “The Ultimate Strength of Concrete Slabs with Openings”, M.Sc. Thesis, 1992.

**Conferences and courses attended**

* 1st International Conference on Water and Energy in Kurdistan, Challenges and Alternatives-ICWEKA17-May 14-15, 2017.
* IEEE - IEC2019, 5th International Engineering Conference on Developments in Engineering Applications, Erbil, June 23-24, 2019. I presented the presentation ‘Anchorage Zone Stresses Model of Interior Diaphragm for Segmental Box Girder Bridge’
* Teaching Methods Course (9th Class)-2011.

**Funding and academic awards**

* None

**Professional memberships**

* Kurdistan Engineering Union

**Professional Social Network Accounts:**

<https://www.researchgate.net/profile/Ghassan_Werdina>

<http://moodle.su.edu.krd/engineering/user/profile.php?id=1151>

<https://www.facebook.com/ghassan.kaka.7>

<https://www.linkedin.com/in/ghassan-kaka-00775993>

<https://scholar.google.com/citations?hl=en&authuser=1&user=Jsd5bWEAAAAJ>