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### PERSONAL DATA


	<b>Name:</b>	Bayan Salim Obaid Al Numan
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### EDUCATION AND QUALIFICATIONS

YEAR	DEGREE
1996	<b>PHD DEGREE:</b> Civil (Structural Engineering) / / College of Engineering / Al-Mustansiriya University / Baghdad  <b>PHD THESIS:</b> Strength and behaviour of sawdust concrete
1989	<b>MASTER'S DEGREE:</b> Civil (Structural Engineering) / College of Engineering / Baghdad University  <b>MASTER THESIS:</b> Minimum thickness of floor systems in various building codes
1984	<b>BACHELOR'S DEGREE:</b> Civil Engineering / College of Engineering / Baghdad University
1980	<b>BACCALAUREATE (HIGH SCHOOL) :</b> Baghdad College High School / Baghdad

### WORK EXPERIENCE

Year	Place	Title
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<b>2009 - ongoing</b>	<b>Tishk International University / Erbil</b>	Professor
<b>1992 - 2009</b>	<b>Al-Mustansiriya University / Baghdad</b>	Academic staff – professor since Feb. 2007

Note: list them from the most recent to older .

## LANGUAGE SKILLS

- 1- Arabic (Mother tongue)
- 2- English (very good)
- 3- Kurdish (fair)
- 4- Turkish (fair)

## RESEARCH INTERESTS :

- 1- Structural Engineering
- 2- Material Engineering
- 3- Rehabilitation of Structures
- 4- Sustainability in Civil Engineering

## COURSES TAUGHT

1. Reinforced Concrete design I and II
2. Structural Concrete design I and II
3. Structural Steel design
4. Structural Analysis I and II
5. Engineering Mathematics
6. Mechanics of Materials I and II
7. Engineering Mechanics I and II
8. Building Construction
9. Advanced Mathematics (MSc course)
10. Advanced Reinforced Concrete Design (MSc course)

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11. Advanced Reinforced Concrete Design (PhD course)
12. Advanced Structural Analysis (MSc Course)
13. Rehabilitation of Structures (PhD course)
14. Seismic Analysis and Design of structures (PhD course)
15. Selected topics in sustainable concrete (PhD course)
16. Ethics in Engineering and construction

### ACADEMIC ACTIVITIES (workshops, seminars , participations, others..)

#### Latest:

- 1- Strengthening of RC members with CFRP, presented at the Civil Eng Dept., Ishik Univ. (2016)
- 2- Structural Lightweight Concrete, presented at the Civil Eng Dept., Ishik Univ. (2016)
- 3- Structural Design of Reinforced Concrete Car Parking Structures, presented at the Civil Eng Dept., Ishik Univ. (2016)


### PUBLICATIONS

#### BOOKS :

- 1- Corrosion Chemistry (2012), J Wiley and sons, 192 p.

#### SELECTED ARTICLES:

- 1- Bayan S Al-Numan and Faris R Ahmed (2014) FAILURE CHARACTERISTICS AND CRITICAL PUNCHING PERIMETER OF HIGH STRENGTH CONCRETE PANELS, *International Journal of Engineering Trends and Technology (IJETT)* – Vol. 13, No. 8, July 2014.
- 2- Bayan S Al-Numan , Bestoon R. Aziz, Sabr A. Abdulla, Sirwan E. Khaleel (2015) Compressive Strength Formula for Concrete using Ultrasonic Pulse *International Journal of Engineering Trends and Technology (IJETT)* – Volume 26 Number 1- August 2015
- 3- Bayan S Al-Numan and Faris R Ahmed(2015) Experimental Time-Dependent Deflection of High Strength Concrete Panels, *American Journal of Civil Engineering and Architecture*, 2015, Vol. 3, No. 5, 153-157
- 4- Bayan S Al-Numan , Jamal A Farhan, and Othman K Ali (2016) FLEXURAL STRENGTH AND DUCTILITY OF CFRP STRENGTHENED REINFORCED CONCRETE BEAMS, *Iraqi Journal of Civil Engineering*, University of Anbar, College of Engineering, Ramadi, Iraq, accepted for publishing in 2016.
- 5- B. Al Numan, F. Ahmed, K. Hamad, (2018) Effect of Styrene Butadiene Rubber Latex on Mechanical Properties of Eco Concrete: Limestone Powder Concrete, *ARO-The Sci. J. Koya Univ.* 6, 1–6.

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- 6- B. Al Numan, M.A. Saber, Sinan A. Yaseen, Structural Response of AISC-composite concrete filled circular steel Columns under Lateral Load, Zanco Journal of Pure and Applied Sciences, Vol. 32, No.4, (2020), pp. 30 – 37.

The following selected papers were published in the *Iraqi Journal of Engineering and Development*, University of Al Mustansiriya, College of Engineering, Baghdad, Iraq. Between years 2000 - 2009

- 7- Analytical model for long-term deflection of two-way slab systems
- 8- Time-dep. deflection of prestressed concrete members of any concrete compressive strengths
- 9- Stress-strain relationship of no-fines polymer concrete
- 10- High velocity impact resistance of plain and steel fiber reinforced polymer modified concrete
- 11- Structural behavior of reinforced polymer modified concrete beams
- 12- Nonlinear time dep. FE analysis of reinforced concrete box girder bridge
- 13- Flexural and shear behavior of hybrid I-beams with high strength concrete and steel fibers
- 14- Properties of polymer modified local reactive powder concrete subjected to oil products
- 15- Analysis of folded plates including time effects using finite strip method

#### PROCEEDINGS:

- 1- Bayan S Al-Numan (2014) ASSESSMENT OF SUSTAINABILITY PERFORMANCE OF CONSTRUCTION PROJECTS IN KURDISTAN. International conference IEC2014 Ishik University, Erbil, Iraq
- 2- Bayan S Al-Numan (2014) Limestone Concrete: an Eco-Cement Concrete for Sustainability-Cement Paste. International conference IEC2014 Ishik University, Erbil, Iraq
- 3- Bayan S Al-Numan (2014) Limestone Concrete: an Eco-Cement Concrete for Sustainability-Cement Mortar. International conference IEC2014 Ishik University, Erbil, Iraq
- 4- Bayan S Al-Numan (2016) Prediction of Time-Dependent Deflection of High Strength Concrete Panels. 2<sup>nd</sup> International conference IEC2014 Ishik University, Erbil, Iraq
- 5- Bayan S Al-Numan (2016) SUSTAINABILITY IN CONSTRUCTION PROJECTS : PART 1 ELEMENTS. 2<sup>nd</sup> International conference IEC2014 Ishik University, Erbil, Iraq
- 6- Bayan S Al-Numan (2016) SUSTAINABILITY IN CONSTRUCTION PROJECTS : PART 2 CASE STUDIES. 2<sup>nd</sup> International conference IEC2014 Ishik University, Erbil, Iraq
- 7- Bayan S Al-Numan (2016) Effect of increasing columns concrete strength on columns reinforcement ratio in high rise buildings. 2<sup>nd</sup> International conference IEC2014 Ishik University, Erbil, Iraq
- 8- Bayan S Al-Numan (2014) EXPERIMENTAL INVESTIGATION AND PREDICTION OF PUNCHING SHEAR STRENGTH OF HIGH STRENGTH CONCRETE SLABS. CESARE'14 International Conference Civil Engineering for Sustainability and Resilience Amman, 24-27 April 2014
- 9- Bayan S Al-Numan (2015) "Protection of the environment in Construction Projects. A particular focus on Kurdistan practice." International Conference on Ecology, Environment and Energy, Ishik University, Erbil, Iraq, April. 2015, pp. 109 – 119.

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- 10- Bayan S Al-Numan (2015) “Environmental development of Shiw-A Surchay river in Erbil.” International Conference on Ecology, Environment and Energy, Ishik University, Erbil, Iraq, April. 2015, pp. 120 – 128.
- 11- [Abdul-Ghani Hamad Mikhilif](#); [Ibrahim Ahmed Al-Jumaily](#); [Bayan Salim Al-Numan](#) (2020) “Mechanical Properties of Sustainable Concrete Using Local Limestone Powder as Partial Replacement of Cement”, Publisher: IEEE. Published in: 2019 12th International Conference on Developments in eSystems Engineering (DeSE).

### Supervising PhD and MSc students

I had supervised more than 10 PhD students in various Iraqi universities

I had supervised dozens of MSc students in various Iraqi universities

Supervising a PhD student at Sulaimani University (2019 – ongoing)

Supervised 2 MSc students at Tishk International University in joint venture with Erbil Polytechnic University (2018 – 2020)