



CV / ACADEMIC STAFF

Document No	IU-HR-FR-009E
Validity Date	
Revision No	00
Page No	

Unit

Human Resources



PERSONAL DATA

Name: Bayan Salim Obaid Al Numan
Mobile: + 964 750 7 267 240
E-Mail: bayan.salim@tiu.edu.iq

EDUCATION AND QUALIFICATIONS

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

WORK EXPERIENCE

Year	Place	Title



CV / ACADEMIC STAFF

Document No	IU-HR-FR-009E		
Validity Date			
Revision No	00		
Unit	Human Resources	Page No	

2009 - ongoing	Tishk International University / Erbil	Professor
1992 - 2009	Al-Mustansiriya University / Baghdad	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)



CV / ACADEMIC STAFF		Document No	IU-HR-FR-009E
		Validity Date	
		Revision No	00
Unit	Human Resources	Page No	

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.



CV / ACADEMIC STAFF		Document No	IU-HR-FR-009E
Validity Date		Revision No	00
Unit		Page No	
Human Resources			

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. 2nd International conference IEC2014 Ishik University, Erbil, Iraq
- 5- Bayan S Al-Numan (2016) SUSTAINABILITY IN CONSTRUCTION PROJECTS : PART 1 ELEMENTS. 2nd International conference IEC2014 Ishik University, Erbil, Iraq
- 6- Bayan S Al-Numan (2016) SUSTAINABILITY IN CONSTRUCTION PROJECTS : PART 2 CASE STUDIES. 2nd 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. 2nd 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.



CV / ACADEMIC STAFF		Document No	IU-HR-FR-009E
Unit	Human Resources	Validity Date	
		Revision No	00
		Page No	

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)