

## **Engr. Dr. Nosheen Blouch**

Department of Building and Architectural Engineering BZU Multan.

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### **Objective:**

Dedicated and accomplished academic professional with a strong background in Architectural Engineering and a proven track record in academia and research. Seeking challenging opportunities to contribute expertise and knowledge in a dynamic academic environment.

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### **Education:**

Ph.D. in Architectural Engineering and Design, University of Engineering and Technology (UET) Lahore, 2023

Master of Science in Architectural Engineering, University of Engineering and Technology (UET) Lahore, 2013

Bachelor of Science in Architectural Engineering, University of Engineering and Technology (UET) Lahore, 2010

Intermediate, Govt. Sadiq Degree College Bahawalpur, 2005

Matriculation, Govt. Comprehensive High School Bahawalpur, 2002

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### **Professional Experience:**

Assistant Professor, Department of Building and Architectural Engineering, Bahauddin Zakariya University (BZU) Multan, 2018- Present

Lecturer, Department of Building and Architectural Engineering, Bahauddin Zakariya University (BZU) Multan, 2015-2018.

Architectural Engineering, ABBAS and ABBAS Associates, Contractors, Consultants and Management Consultants, Railway Road Bahawalpur Pakistan, 2014-2015.

Research Associate, Department of Architectural Engineering and Design at University of Engineering and Technology (UET) Lahore, 2010-2013.

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### **Publications:**

1. Bukhari, S.M.A., Gardezi, S.A.R, Husnain., N, Ahmad., R, Zaman., M.F, Qurashi, R., **Baloch, N.**, (2024) "Modelling and Simulation of Cathodic Protection Using Magnesium Sacrificial Anode for Steel Bent-Y-Pipe in Seawater Environment" Asia-Pacific Journal of Science and Technology, Vol. 29 No. 03 (2024): May-June. ***I.F.0.74.(Accepted)***

2. Hussain, K., Junaid, A., Shah, S.I.A. Khan, M.M., Shoaib M.O., Bano, N., Razan A. Alshgari, R.S., Blouch, N., et al. Fabrication of novel FeSe–GO composite: a highly efficient electro-catalyst for oxygen evolution reaction. *J. Korean Ceram. Soc.* (2024). <https://doi.org/10.1007/s43207-024-00434-5> *I.F.2.4*
3. Naveed. A., Bukhari, S.M.A., Husnain, N., **Balouch, N.**, et.al. (2024) “Structural Integrity and Cost Analysis of a Connecting Rod for Articulated Robotic Arm using various Stainless Steel and Aluminium Alloys. *Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan* Vol. 29 No. 2-2024. ISSN:1813-1786 (Print) 2313-7770 (online).
4. Bano, N., Shah, S. I. A., **Blouch, N.**, et al. (2024). Development of CoFe<sub>2</sub>O<sub>4</sub>-MnO electrocatalyst for improved oxygen evolution process in alkaline media. *Journal of Electronic Materials* Volume 954, 1 February 2024. *I.F.1.79.*
5. Alshgari, R. A., Shah, S. I. A., **Blouch, N.**, et al. (2024). Facile fabrication of bismuth vanadate grafted carbon nanotubes composite for enhanced oxygen evolution reaction. *Journal of Electroanalytical Chemistry* Volume 954, 1 February 2024. *I.F.4.5.*
6. **Blouch, N.**, Rashid, K., Zafar, I., Ltifi, M., Ju, M. (2023). Prioritization of low-grade kaolinite and mixed clays for performance evaluation of Limestone Calcined Clay Cement (LC<sup>3</sup>): Multicriteria assessment. *Applied Clay Science*, 243, 107080. *I.F.5.6.*
7. **Blouch, N.**, Rashid, K., & Ju, M. (2023). Exploring low-grade clay minerals diving into limestone calcined clay cement (LC<sup>3</sup>): Characterization – hydration – performance. *Journal of Cleaner Production*, 139065. *I.F.11.1.*
8. Akram, N., **Blouch, N.**, & Malik, A. M. (2022). Opening the Black Box of Water Conservation Behavior: Holistic Perspective of a Developing Country, Pakistan. *Journal of Social Research* ISSN 2710-3129 (P) 2710-3137 (O) Vol. 4, No. 4, December 2022, pp. 1096-1105.
9. **Blouch, N.**, Akram, N., Malik, A. M., Rashid, M., & Siddiqui, F. A. (2021). Economic Feasibility of Energy Saving by Incorporating Daylight: A Case Study of College Building in Multan-Pakistan. *Technical Journal*, 26(02), 67-80.
10. Rashid, K., & **Balouch, N.** (2017). Influence of steel fibers extracted from waste tires on shear behavior of reinforced concrete beams. *Structural Concrete*, 18(4), 589-596. *I.F.3.26.*
11. **Balouch, N.**, Rashid, K., Javed, S., & Ahmad, T. (2017). Experimental Study on Compressive Strength of Concrete by Partial Replacement of Cement with Eggshell Powder. *Technical Journal.*, 22(3). 67-80.

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#### **Publications Under Review or In-Progress:**

Rashid. K, **Blouch. N.**, Fatima. M, “Synergistic Effects of Calcination with Mechanical and Chemical Activation on Clay for Limestone Calcined Clay Cement (LC<sup>3</sup>)” *Cement and Concrete Composites*, “Under Review” *I.F.10.8*

Fatima. M, Rashid. K, **Blouch. N** “Thermo-Mechano-Chemo Dynamics of Clay’s Reactivity and its Correlation with Limestone Calcined Clay Cement (LC<sup>3</sup>) Performance, *Construction and Building Materials*, “Under-Review” *I.F.7.4*

**Blouch. N.,** Rashid. K., Mawra. K., Zafar. I., Alqathani. F.K., “Sustainability Implications of Clay Grade and Content Variation in Limestone Calcined Clay Cement (LC<sup>3</sup>) for Residential and Commercial Construction, Construction and Building Materials, “Under review”

*I.F.7.4*

Hussain. K., Junaid. A., Shah. S.I.A., Khan. M.M, Shoaib. O.M, Nigarish Bano. N., Alshgari. A.R **Blouch. N.,** Ehsan. F.M., Ashiq. M., “Efficient and Facile Room-Temperature Synthesis of CeS-GCN for oxygen evolution reaction, “International Journal of Applied Ceramic Technology”, “Under-Review”

*I.F.1.8*

**Blouch. N,** Noman Hussain., Sajjad Ahmed., Siddique. F., Naveed Hussain., “Exploring the performance of different low-grade clay minerals (Kaolinite, Illite, and Montmorillonite) in LC<sup>3</sup>“In-progress”

Abdullah.M, Khan. S, Shah. SIA, Ahmad. N, Albaqamic.M, Sheikh.M, **Blouch. N,** Ehsane. MF, and Ashiq. N, “One-pot hydrothermal fabrication of Mn-doped Ni<sub>3</sub>S<sub>2</sub> as an active electrode for ultra-performance energy storage supercapacitors, “In-progress”