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Designation		Professor/ Associate Dean				
Departi	ment	Civil Engineering				
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Research Profile		Research Gate ID: https://www.research	ngate.net/profile/Zafa	ır_Balo	och3	
		Google Scholar Profile https://scholar.google		:f1IC5	EAAAAJ&	hl=en
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Qualific	cation					
Year	Degree/Certificate	Name of the Institute	e Institute/ University Field of		Field of	study
2017	PhD	Hanyang University, S	versity, Seoul, South Korea Civil Engineering SHM, Smart Infrastructure		art	
2008	MS/ Mphil	NED University of Engineering & Technology Karachi, Pakistan. Engineering				
2003	Graduation	Balochistan University of Engineering & Technology, (BUET), Khuzdar, Pakistan. Civil Enginee				
1998	BSc	University of Balochis	tan (UOB), Pakistan		Geograp	hy
1997	DCs	PETROMAN , Sindh Bo Education, Pakistan	oard of Technical		C++, ORA	ACAL Data nication
1996	FSc (Intermediate Education))	Balochistan Board of Intermediate and		Math		
Metriculalation 1994 (Secondary Education)		Secondary Education (BBISE) Quetta, Pakistan		Science		
1981-		Sadiq Public School (SPS), Bahawalpur, Pakistan		istan	General Education	
Publica	tions in HEC Recognize	ed journals				
S. No Title of Paper			Name of Journal		onal/ rnational	Publication date

1.	Assessment of Flexural Performance of Reinforced Mud Sandwich Panels Experimental and Numerical Modeling Approach	Innovative Infrastructure Solutions	International	2024
2.	Geopolymer Self Compacting Concrete Performance Incorporating Polyethylene Terephthalate	Asian Journal of Environmental Studies (AJES)	National/ International	2023
3.	Comparative study on the performance of photochromic cement, epoxy, and polyester mortars	Journal of Building Engineering	International	2023
4.	Effectiveness of various polysaccharides for controlling properties of alkali-activated manganese-rich slag pastes	European Journal of Environmental and Civil Engineering ISSN (2116-7214, 1964-8189)	International	2021
5.	Removal of Hazardous Materials from Residential and Commercial Liquid Waste Using Solid Sorbents	Journal of Applied and Emerging Sciences ISSN (1814- 070X,2415-2633)	National	2021
6.	Indiscriminate Municipal Solid Waste Disposal An Influence on Ethnics and Social Norms of Inhabitants: A Community Based Study Of Ward 32, Quetta	PalArch's Journal of Archaeology of Egypt/ Egyptology ISSN (1567-214X)	International	2021
7.	Dynamic Response Study of a Single Tower Cable Stayed Bridge using Finite Element Method	Journal of Applied and Emerging Sciences ISSN (1814- 070X,2415-2633)	National	2020
8.	Assessment of Seismic Performance of Submerged Floating Tunnel Under Multi- Support Seismic Excitations	NED university journal of Research- structural Mechanics ISSN (:2706-5758, 2304-716X)	National	2020
9.	Comparative Analysis of Pressure Regions of Gaseous Benzene Using Ground Activated Carbon Sorbents Under Ambient Conditions	Journal of Applied and Emerging Sciences ISSN (1814- 070X,2415-2633)	National	2019
10.	Dynamic Characteristics of submerged floating tunnel under irregular waves	Journal of Applied and Emerging Sciences ISSN (1814-070X, 2415-2633)	National	2019
11.	Effect of Cable Stiffness and Waves Parameters on the Dynamic Responses of Submerged Floating Tunnel	Journal of Applied and Emerging Sciences	National	2019

		ISSN (1814-070X, 2415-2633)		
12.	Assessment of the Dynamic Behaviors of Submerged Floating Tunnel Under a High- Speed Train Loading	Oceanography & Fisheries Open Access Journal (OFOAJ) ISSN (2476-0536)	International	2019
13.	Properties of Chemically Synthesized Nano- geopolymer Cement based Self- Compacting Geopolymer Concrete (SCGC)	Journal Wuhan University of Technology, Materials Science Edition ISSN (1993-0437, 1000-2413)	International	2019
14.	Performance Evaluation of the Fiber- Reinforced Cement Composites Blended with Wheat Straw Ash	Advances in Materials Science and Engineering ISSN (1687- 8442,1687-8434)	International	2019
15.	Effect of the confining method on the cyclic undrained behaviors of sand	IOP Series Materials Science and Engineering ISSN (1757-899X)	International	2018
16.	Effect of w/b ratio and binder content on the properties of self-compacting high performance concrete (SCHPC)	Journal of Ceramic Processing Research ISSN (1229-9162)	International	2018
17.	Investigation of corrosion assessment of hydrogen-rich water based cement mortars	Journal of Ceramic Processing Research ISSN (1229-9162)	International	2017
18.	Investigation of the acid and sulfate resistance performances of hydrogen-rich water based mortars	Construction and Building Materials ISSN (0950-0618)	International	2017
19.	Strength and Durability Assessment of Portland Cement Mortars Formulated from Hydrogen-Rich Water	Advances in Materials Science and Engineering ISSN (1687- 8442,1687-8434)	International	2017
20.	Effectiveness of sewage sludge ash combined with waste pozzolanic minerals in developing sustainable construction material: An alternative approach for waste management	Journal of Cleaner Production ISSN (0959- 6526,1879-1786)	International	2017
21.	Internet of Things-Based Arduino Intelligent Monitoring and Cluster Analysis of Seasonal Variation in Physicochemical Parameters of Jungnangcheon, an Urban Stream	Water (Switzerland) ISSN (2073-4441)	International	2017
22.	Assessment of Utilizing Marble Stone Dust and Wood Saw Dust as Partial Replacement for Cement and Sand in Concrete	Journal of Applied & Emerging Sciences	National	2017

		ISSN (1814-070X, 2415-2633)		
23.	Effect of incorporation of self-healing admixture (SHA) on physical and mechanical properties of mortars.	Journal of Ceramic Processing Research ISSN (1229-9162)	International	2015
Pape	er Presented			
S. No	Title of Paper	Name of Conference	National/ International	Date
1.	Comparison of Accumulated Stress Based Pore Pressure Model and Plasticity Model in 1D Site Response Analysis.	1st South Asia Conference on Earthquake Engineering (SACEE 19)	National	21-22 Feb 2019
2.	Assessment of the seismic performance of submerged floating tunnel under multisupport seismic excitations.	1 st South Asia Conference on Earthquake Engineering (SACEE 19)	National	21-22 Feb 2019
3.	Dynamic Response analysis of Submerged Floating Tunnel under waves and Earthquakes	10 th International Civil Engineering Conference (ICEC- 2019)	National	23-24 Feb 2019
4.	Development of Mobile Ecosystem for Smart Sharing of Domestic Water Efficient Collection and Supply Management, for Quetta City	1st International Conference on Advances in Engineering & Technology	International	April 2018
5.	Effect of the Confining Method on the Cyclic Undrained Behaviors of Sand	1st International Conference on Advances in Engineering & Technology	International	April 2018
6.	A Web 2.0 based Integrated Information Sharing Framework for Structural Health Monitoring of Road Tunnels	6 th International Conference of Euro Asia Civil Engineering Forum Seoul, South Korea	International	June 2017
7.	Internet of Things Based Arduino Efficient Monitoring and Data Analysis of Physicochemical Parameters, An Urban Stream	6 th International Conference of Euro Asia Civil Engineering Forum Seoul, South Korea	International	June 2017
8.	Ecosystem for Drought in Balochistan, Pakistan	Korean Society of Civil Engineers	International	2014
9.	Tunnels Construction Planning and Suggestions to Speed up Tunnel Excavation Progress	Korean Society of Civil Engineers	International	2014
10.	Evaluation of Properties of Concrete Using Aggregates Obtained from Demolished Concrete Structures	Korean Society of Civil Engineers	International	2014

11.	· •	n Alternative C g Pozzolanic Ma I Alumina		Korean Society of Civil Engineers	International	2014
12.	Mobil Ecosystem Smart Platform for Solid Korean Socie		Korean Society of Civil Engineers	International	2013	
Bool	ks Authored/ Ed	dited				
S. No	Name of book	(Publisher	ISBN
Wor	k Experience					
S. No	From (year)	To (year)	Name of the Ins	stitution/ Organization	Position held	<u> </u>
1.	October 2022	Up-to-date	Faculty of Engineering & Architecture Professor/ (FOE&A), BUITEMS, Quetta, Pakistan. Dea			
2.	July 2017	Up-to-date	Infrastructure a Structural Healt Man Made Disa	and Infrastructure 4.0, th Monitoring, WASH, aster Management, ng, Smart Construction er Resources Dutcome-Based	Consultant	
3.	March 2022	October 2022	I .	Civil Engineering and OE&A), BUITEMS, n.	Professor/ Chairperson	
4.	December 2021	Feb 2022	Chairperson, De	neering (FOE&A),	Professor/ Chairperson	
5.	August 2017	August 2023	BUITEMS Civil V Developments		Civil Technical Expert	
6.	August 2019	December 2021	Chairperson, De	neering (FOE&A),	Associate Professor/ Chairperson	
7.	October 2019	September 2022	Nations (WFP-L	ogram of the United JN), Districts of Killa Abdullah, Chaghi,	Engineering Team Leader	
8.	February 2019	August 2019	Department Engineering, (FO Quetta, Pakista	of Civil OE&A), BUITEMS, n.	Associate Professor	
9.	January 2015	Feb 2017	1 .	Civil & Environmental anyang University, South Korea.	Research Assistant	
10.	April 2013	December 2014	1 '	Civil & Environmental anyang University, South Korea.	Teacher Assistant	
11.	January 2010	February 2019	Department Engineering, (Fo Quetta, Pakista	epartment of Civil ngineering, (FOE&A), BUITEMS, Assistant		Professor

12.	February 2005	December 2009	Military Lands & Cantonment Boards, Pakistan	Cantonment Engineer	
13.	September 2004	March 2005	Taraqee Foundation Quetta, Pakistan	Field Engineer	
14.	September 2003	September 2004	M. Azim Khan Panaza Site Engineer		
15.	November 2002	May 2003	Abdul Malik & Company	Trainee Engineer	
Men	nber				
1.	July 2022 to	July 2025	Syndicate Member, BUITEMS, Quetta	Member	
2.	June 2022	Till Date	Board of Studies, Department of Civil Engineering, BUITEMS	Convener	
3.	June 2022	Till Date	Industrial Advisory Board (IAB), Department of Civil Engineering, BUITEMS	Convener	
4.	March 2022	Till Date	Board of Studies, Department of Architecture, BUITEMS	Member	
5.	October 2021	June 2022	Sanate Member, BUITEMS, Quetta	Member	
6.	August 2019	Feb 2022	Board of Studies, Department of Geological Engineering, BUITEMS	Convener	
7.	August 2019	Till Date	Board of Faculty, Faculty of Engineering & Architecture, BUITEMS	Member	
8.	August 2019	Feb 2022	Industrial Advisory Board (IAB), Department of Geological Engineering, BUITEMS	Convener	
Area of specialization		on	Remote Monitoring of Infrastructures, Smart Construction Materials, Multidisciplinary and Holistic Approach, Water Resources Management, Man Made Disaster Management, Mobil Ecosystem Smart Platform of Municipal Corporation Grade, Civil Engineering Projects, Drought Mitigation, Multidisciplinary and Holistic Approach, Outcome-Based Education, Developing Learning Outcomes: Student Center Learning (Course Design: Teaching and Learning),		
Research Interest			Man-Made Disasters, 3D Construction, Structural Health Monitoring, Remote Monitoring of Structures, Smart Construction Materials, Artificial Neural Network, Deep Learning, Internet of Things (IoT), Block- Chain.		
SDGs Goals mapping with worked experience		g with	4 OULTY GENERAL 7 APPRILABELAND 9 NORTHY NUMBERS 11 SECTIONAL 11 SECTIONALIST 1	7 PARTINESHIPS ON THE COLUS	
Future Research Plans			Smart Infrastructure Grade, Smart Living for Ecosystem (Flood, Scarcity and Drou	•	

HEC Approved supervisor	Yes https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx		
If Yes, provide HEC URL			
Research grants/ Projects	 Development of Mobile Ecosystem for Smart Sharing of Domestic Water Efficient Collection and Supply Management for Quetta City. Effect of Wheat Straw Fibers on Behavior of Clayey Soil 		
Additional Information			
Research grants/ Projects (Unsucceeded)	 Assessment of Insulating Properties of Building Walls using Pumice Fine Aggregate Powder: A Sensor Based Investigation (BUITEMS ORIC) Utilization of Additive Manufacturing (3D Printing) In Construction Industry (BUITEMS ORIC Large-scale Competitive Grants) Assessment and removal of hazardous pollutants species in both air and liquid phase in the industrial zone Hub (Balochistan) using recycle approach) (BUITEMS ORIC Large-scale Competitive Grants) Evaluating Insulating Properties of Pumice (BUITEMS ORIC) Intelligent Skip Waste Bin with Effective Trash Bin Site Location in Metropolitan City Quetta (CM, Balochistan) Smart Domestic Water supply and Efficient Distribution Management for Quetta City (CM, Balochistan) Development of Miniature 3D construction Prototype (GCF) Development Prototype of Miniature Smart Domestic Water Supply And Efficient Distribution Vain Neural Network Management. An aqua tube detection for WASA, Quetta (NRPU) Monitoring and removal of Volatile Organic Compounds (VOCs) from urban areas of Balochistan (NRPU) 		

MS Thesis Supervised	 Solute Transport Modelling Through Porous Media With Fraction Advection Dispersion Equation (Fade) Simulation Of Tracer Transport Through Porous Media Using Advection Dispersion Equation (Ade) Development Of Pervious Concrete Pavement Using Polyethylene Terephthalate As Coarse Aggregate Effect Of Silica Fume And Lime On The Compressibility Of Baleli Soil Analysis Of The Engineering Properties Of Pumice Block: An Energy Efficient Structural Member Partial Replacement Of Polypropylene Random Copolymer As Coarse Aggregate In Concrete GIS Based Solid Waste Collection And Transportation A Case Study Of Quetta City Indiscriminate Municipal Solid Waste Disposal An Influence On Ethics And Social Norms Of Inhabitants: A Community Based Study Of Ward 32, Quetta Effect Of Date Seeds As Partial Replacement Of Coarse Aggregates On Properties Of Concrete Effect Of Pumice On Heat Insulating Properties Of Cement Mortar Evaluation Of Water Quality Of Nari Gaj River In Balochistan, Pakistan Performance Evaluation of Self Compacting Geopolymer Concrete by Incorporating Polyethylene Terephthalate
MS External Examiner	Effects of Temperature and Age on Compressive Strength of Cement Mortar Containing Volcanic Pumice and Stone Quarry Dust, Engr. Aneesa, 21MECE44, BUET, Khuzdar, Pakistan
International Journal Reviewer	 MDPI, International Journal of Geo-Information (IJGI) Remote Sensing Sensors Water Bentham Manuscript Processing System Water, Air, & Soil Pollution
HEC Research Grant Reviewer	 CPEC Grand Challenge Fund (GCF) Local Challenge Fund (LCF) National Research Program for University (NRPU) PERIDOT Research Program Pak –Turk Researchers' Mobility Grant Program

Certificate Trainer:	 PMP Water Law (Panjwani-Hisaar Water Institute (PHWI)) Outcome Based Accreditation for Program Evaluators HEC PhD Supervisors Capacity Building Program Decentralised Wastewater Treatment Systems (DEWATS) Professional Competency Enhancement Program for Teachers (PCEPT) Outcome Based Education System (OBES)
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