



Muhammad Arif Aziz

Lecturer

Personal Data

Nationality | Pakistani

Date of Birth | Feb. 18, 1984

Department | Civil and Construction Engineering Department

Official UoD Email | maaahmed@iau.edu.sa

Office Phone No. |

Language Proficiency

Language	Read	Write	Speak
Urdu	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
Sep 06, 2010	Master	University of Dundee	Scotland Dundee, UK
Jan 05, 2005	Bachelor	Sir Syed University of Engineering and Technology	Karachi, Pakistan

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

Master	Seismic Bearing Capacity of soil by using ABAQUS 3d
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Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Lecturer	Imam Abdulrahman Bin Faisal University	April 2013 - to present
Design Engineer	Ammico Contracting Company W.L. L	May 2012 -Aug 2012
Design Engineer	Impact Engineering Planning and Management	Oct 2011 - April 2012
Junior Lecturer	Sir Syed of Engineering & Technology Karachi – Pakistan	April 2009 - Oct 2011



Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Muhammad Arif Aziz , Mukarram Zubair, Khalid Saqer Alotaibi, Muhammad Nasir, Mohammad Saood Manzar, Tag Nasreldin Hussein, Yasir M. Alharthi	Development and Evaluation of Engineered Nanocellulose-Based Mortar Synthesized Using Hydrolysis of Strong and Weak Acids	s
2	Muhammad Arif Aziz , Mukarram Zubair, Muhammad Saleem, Yasir M Alharthi, Noman Ashraf, Khalid Saqer Alotaibi, Omer Aga, Ammar Ali A Al Eid	Mechanical, non-destructive, and thermal characterization of biochar-based mortar composite.	Biomass Conversion and Biorefinery, 2023
3	Walid A Al-Kutti, ABM Saiful Islam, Zaheer Abbas Kazmi, Mahmoud Sodangi, Fahad Anwar, Muhammad Nasir, Muhammad Arif Aziz Ahmed, Khalid Saqer Alotaibi	Structural performance and SWOT analysis of multi-story buildings of lightweight reinforced concrete comprising local waste materials	Earthquakes and Structures, 2022
4	Kaffayatullah Khan, Muhammad Arif Aziz, Mukarram Zubair, Muhammad Nasir Amin	Biochar Produced from Saudi Agriculture Waste as a Cement Additive for Improved Mechanical and Durability Properties—SWOT Analysis and Techno-Economic Assessment.	MDPI, 2022
5	Muhammad Nasir, Muhammad Arif Aziz , Mukarram Zubair, Noman Ashraf, Tag Nasreldin Hussein, Moath Khalid Allubli, Mohammad Saood Manzar, Walid Al-Kutti, Mamdouh A Al-Harhi	Engineered cellulose nanocrystals-based cement mortar from office paper waste: Flow, strength, microstructure, and thermal properties.	Journal of Building Engineering, 2022
6	Mukarram Zubair, Nuhu Dulhat Muazu, Muhammad Nasir, Muhammad Saood Manzar, Muhammad Arif Aziz , Muhammad Saleem, Mamdouh A, Al Harthi	Cellulose Nanocrystals from office paper waste for green mortar: Process optimization modelling, characterization, and mechanical properties.	Arabian Journal for Science and Engineering, 2022
7	Muhammad Nasir, Muhammad Arif Aziz , Mukarram Zubair, Mohammad Saood Manzar, Noman Ashraf, Nuhu Dalhat Muazu, Mamdouh A Al-Harhi	Recent review on synthesis, evaluation, and SWOT analysis of nanostructured cellulose in construction applications.	Journal of Building Engineering, 2022
8	Muhammad Arif Aziz , Mukarram Zubair, Muhammad Saleem	Development and testing of cellulose nanocrystal-based concrete.	Case Studies in Construction Materials, 2021



9	Mohammad Saood Manzar, Mukarram Zubair, Nadeem A Khan, Afzal Husain Khan, Umair Baig, Muhammad Arif Aziz , Nawaf I Blaisi, Hisham IM Abdel-Magid	Adsorption behavior of green coffee residues for decolourization of hazardous congo red and eriochrome black T dyes from aqueous solutions.	International Journal of Environmental Analytical Chemistry, 2021
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Refereed Scientific Research Papers Submitted for Publication

#	Name of Investigator(s)	Research Title	Journal	Submitted Date
	Muhammad Arif Aziz, A.B.M Saiful Islam, Walid Al kutti	Evaluating mechanical and durability properties of tertiary cementitious system-based concrete.	Techno Press Journal	Feb, 2023

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Mukarram Zubair (PI), Muhammad Nasir (Col), M. Arif Aziz (RA)	Cellulose Nanocrystals from office paper waste for green mortar. Process optimization modelling, characterization, and mechanical properties	2020-2022
2	M. Saleem (PI), M. Arif Aziz (RA) – DSR	Combined use of Ultrasonic Pulse Velocity and the Schmidt Hammer Test to Improve the Accuracy of Non-destructive Pull-out load Carrying Capacity Estimation of Anchor Bolts	2019 - 2020
3	M. Saleem (PI), M. Arif (RA) – DSR	A Fundamental Study to Evaluate the Bond of Reinforced Concrete Beams using Non-destructive Testing	2018 - 2019
4	Zaheer Abbas kazmi (PI), M. Arif Aziz (RA) – DSR	Potential Use of Lightweight Concrete as an Energy Efficient, Durable and Stable alternate for Construction in Saudi Arabia	2018 - 2019
5	W. Al-Kutti (PI), M. Arif Aziz (RA) - DSR	Production of green concrete using local date palm ash	2017 - 2018
6	M. Saleem (PI), M. Arif Aziz (RA) – DSR	Development, Testing and Environmental Impact Assessment of Glow-in-the-Dark Concrete	2017 - 2018



Current Researches

#	Research Title	Name of Investigator(s)
1	Development and design of Biochar based concrete, by using CO2 loaded biochar as cement replacement.	Muhammad Arif Aziz, Mukarram Zubair, Muhammad Saleem

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Potential of volcanic waste Scoria as an eco-friendly aggregate to produce Lightweight Concrete	Smart Cities Symposium at Bahrain, April 2018	Publication in progress
2	The 1st Saudi Concrete Conference	Le Meridien Hotel on 4th May 2016	Attended
3	Construction and Demolition Waste (C&D) Management, Gaps and Opportunities	College of Engg., IAU on 25th April 2017	Attended

Membership of Scientific and Professional Societies and Organizations

- Registered Engineer with Pakistan Engineering Council # CIVIL/29669

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Geology	GEOL 312	Lecture
2	Professional Practice and Ethics	HUMN 501	Lecture
3	Engineering Drawing	ENG 222	Lecture
4	Engineering Drawing	ENG 222	Labs
5	Recent Topics in Engineering	CONEN 534	Labs
6	Recent Topics in Engineering	CONEN 534	Grading
7	Engineering Materials	ENG 332	Lecture and Labs



Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Senior Design Project	2	2022	2023
2	Senior Design Project	3	2021	2022
3	Senior Design Project	5	2020	2021
4	Senior Design Project	4	2019	2020
5	Senior Design Project	3	2018	2019
6	Senior Design Project	2	2017	2018
7	Senior Design Project	6	2016	2017
8	Senior Design Project	5	2015	2016
9	Senior Design Project	4	2014	2015

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities Committee Membership

#	From	To	Position	Organization
1	2014	Date	Member	Senior Design Project (Departmental)
2	2015	Date	Member	Laboratory Committee
3	2018	Date	Member	Academic Affairs Committee
4	2016	Date	Member	Quality and strategic planning
5	2016	2018	Member	Program Quality and Accreditation Committee
6	2016	2018	Member	Research and Graduate Study Committee

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2017	Date	Working in Green Mosque project to serve the community	IAU

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

	Software	Skill Level
1	COMSOL, ABAQUS 3D, STAAD Pro, AutoCAD and SAP 2000	Intermediate
2	ETABS, SAFE and MS Office	Intermediate
3	Origin, Statistica, Mini Tab, Mandeley, EndNote.	Intermediate

Last Update

05/31/2023