

Hammad Anis Khan

Assistant Professor

NUST Institute of Civil Engineering

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About

Dr. Hammad Anis Khan is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Hammad Anis Khan has a PhD in Civil And Environmental Engineering. Dr. Hammad Anis Khan has published 18 research articles & conference papers having a citation count of 550, carried out 18 projects and filed 0 intellectual property.

Qualifications

PhD in Civil And Environmental Engineering University of New South Wales , Australia	2015 - 2019
MS in Structural Engineering NUST, Islamabad , Pakistan	2012 - 2015
B.Sc (Hon) in Civil Engineering UET Taxila , Pakistan	2008 - 2012

Experience

Assistant Professor NUST Institute of Civil Engineering	2024- Present
Assistant Professor NUST Institute of Civil Engineering	2019 - 2019
Research Associate The University of New South Wales (UNSW) , The University of New South Wales (UNSW), Kensington, 2052, Sydney, NSW	2019 - 2019
Casual Academic Staff The University of New South Wales (UNSW) , The University of New South Wales (UNSW), Kensington, 2052, Sydney, NSW	2016 - 2019
Lab Coordinator COMSATS Institute of Information and Technology , Department of Civil Engineering, COMSATS Institute of Information and Technology, Wah Campus, Wah,	2014 - 2015
Junior Engineer (Civil) NESPAK , NESPAK House, G-5/2, Islamabad, Pakistan	2012 - 2013

Awards

AC Kennett Award Awarded "AC Kennett Award" for the best research paper presented in the corrosion and prevention 2018 conference, held in Adelaide Australia.	2018
President's Gold Medal Awarded a Gold medal for securing first position in MS in Structural Engineering	2016
Tuition Fees Scholarship Awarded a Tuition Fees Scholarship with Stipend to pursue PhD from UNSW, Sydney, Australia	2015
Certificate of Merit Awarded a merit certificate for securing overall second position during bachelors degree from university of engineering and technology, Taxila.	2013

Professional Memberships

ENGINEER AUST	Since 2019
PEC	Since 2012

Research Projects

National Projects

Development of NextGen Concrete	2023
Funding Agency: NUST	
Amount: PKR 17,000,000.00	
Status: Approved_inprocess	

International Projects

Industry Projects

National Projects

Provision of Consultancy Services for Non-Destructive testing (NDT) of Business District Building, DHA-5, Express Highway, Islamabad	2024
Client: M/S Comrades Planning & Design	
Amount: PKR 1,460,000.00	
Status: Completed	
Non-Destructive testing of Drains at PN Farms Islamabad	2023
Client: PN Farms Scheme Islamabad	
Amount: PKR 80,000.00	
Status: Completed	
Non-destructive testing of shotcreted tunnel at POF (Wah Cantt)	2023
Client: Directorate of Civil Works	
Amount: PKR 100,000.00	
Status: Completed	
COMPARISON OF PHYSICAL PROPERTIES & STRENGTH OF FOUR BESTWAY CEMENT BRANDS	2023
Client: Transtech Engineering Corporation	
Amount: PKR 190,400.00	
Status: Completed	
SEMI-DESTRUCTIVE TESTING ON FIRE-EXPOSED PORTION OF CENTAURUS BUILDING ISLAMABAD	2023
Client: Capital Development Authority	
Amount: PKR 1,520,000.00	
Status: Completed	
Provision of Consultancy Services for Feasibility Study and Rehabilitation Design of Bhakkar-DI Khan Bridge	2023
Client: Khyber Pakhtunkhwa Highway division	
Amount: PKR 2,535,000.00	
Status: Completed	
Comparison of Best way and Fauji Cement Quality as per ASTM C-109 and BS EN-196	2022
Client: China Gezhouba Group Co. Ltd. Dasu Hydropower Project Management	
Amount: PKR 248,000.00	
Status: Completed	
comparison of Cement Quality and Strength as per ASTM C-109 and BS EN-196	2022
Client: China Gezhouba Group Co. Ltd. Dasu Hydropower Project Management	
Amount: PKR 94,000.00	
Status: Completed	
Screed Mix Recipe for Qavi Engineering	2022
Client: Qavi Engineers	
Amount: PKR 140,000.00	
Status: Completed	
Ferro Scanning and Ultrasonic Pulse Velocity Testing at House # 677, G-9, Islamabad	2022
Client: Mr. Asghar Golo	
Amount: PKR 55,000.00	
Status: Completed	
Concrete Mix Recipe for Agha Khan Medical Center, Gilgit using locally available materials	2021
Client: Al-Shafi Enterprises	

Amount: PKR 200,000.00	
Status: Completed	
Provision of Consultancy Services for Specialized Testing of EPS Panels	2020
Client: Consultancy Firm	
Amount: PKR 462,000.00	
Status: Completed	
Consultancy Services for Testing for BAUPANELS	2020
Client: M/S SHS Projects Pakistan	
Amount: PKR 660,000.00	
Status: Completed	
Concrete Quality Assessment of RCC Foundation of Dormitory at CTTI Islamabad	2021
Client: Pak PWD Islamabad	
Amount: PKR 411,000.00	
Status: Completed	
Assessment of Concrete Quality of Base Slab Foundation at German Embassy Islamabad	2021
Client: Qavi Engineers	
Amount: PKR 96,000.00	
Status: Completed	
Expanded Polystyrene Smart (EPS) Panel Testing	2021
Client: EPS Solutions	
Amount: PKR 462,000.00	
Status: Completed	
International Projects	
Concrete Core Sampling and Testing of Rehmanabad Mall, Rehmanabad Chowk, Murree Road, Rawalpindi	2021
Client: Al-Furqan International	
Amount: PKR 117,000.00	
Status: Completed	

Research Articles

Mechanical performance and life cycle assessment of alkali-activated concrete with municipal-waste incinerated bottom ash as partial precursor	2025
<i>Muhammad Muneeb Nawaz Hammad Anis Khan Junaid Ahmad Muhammad Noman</i>	
<i>Multiscale and Multidisciplinary Modeling, Experiments and Design</i> , Volume 8, Article Number 279	
Impact Factor: 1.900 Quartile: 2 Citations: 1	
DOI: https://doi.org/10.1007/s41939-025-00865-5	
A Time-Step-Modified Linear Complementarity Approach for Analysing a Simply Supported Steel Beams Subjected to Far-Field Blast Loading	2024
<i>Moiz Tariq Azam Khan Hammad Anis Khan Iqra Hussain</i>	
<i>International Journal of Steel Structures</i> , Pages 1-20	
Impact Factor: 1.100 Quartile: 3	
DOI: https://doi.org/10.1007/s13296-024-00854-3	
High strength rubberized porous concrete for sustainable pavements: Engineering properties and life cycle assessment	2024
<i>Musa Ajmal Khan Junaid Ahmad Hammad Anis Khan Muhammad Umer</i>	
<i>Journal of Cleaner Production</i> , Volume:451, Article Number: 142012	
Impact Factor: 11.1 Quartile: 1 Citations: 3	
DOI: 10.1016/j.jclepro.2024.142012	
Biom mineralization and corrosion inhibition of steel in simulated bio-inspired self-healing concrete	2024
<i>Maria Kanwal Fazal Adnan Rao Arsalan Khushnood Amna Jalil Hammad Anis Khan Abdul Ghafar Wattoo Sajid Rasheed</i>	
<i>Journal of Building Engineering</i> , Volume 82, Article Number 108224	
Impact Factor: 6.4 Quartile: 1 Citations: 7	
DOI: https://doi.org/10.1016/j.jobbe.2023.108224	
Optimisation of an alkali activator solution to enhance the performance of roller-compacted concrete for pavements (RCCP)	2024

Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 2
DOI: <https://doi.org/10.1080/10298436.2024.2318609>

Optimization in recipe design of interlocking compressed earth blocks by incorporating fine recycled concrete aggregate 2024

Mohamed Ramsin Rayeesulhaq Mansoor Lizan Ahamed Rao Arsalan Khushnood Hammad Anis Khan
Construction and Building Materials, Volume 416, Article Number: 135167

Impact Factor: 7.4 | **Quartile:** 1 | **Citations:** 3
DOI: [10.1016/j.conbuildmat.2024.135167](https://doi.org/10.1016/j.conbuildmat.2024.135167)

Self-healing of recycled aggregate fungi concrete using Fusarium oxysporum and Trichoderma longibrachiatum 2023

Nangyaley Khan Hammad Anis Khan Rao Arsalan Khushnood Muhammad Faraz Bhatti Danish Ilyas Baig
Construction and Building Materials, Volume 392, Article Number 131910

Impact Factor: 7.693 | **Quartile:** 1 | **Citations:** 11
DOI: doi.org/10.1016/j.conbuildmat.2023.131910

Bond performance of basalt FRP bar against aggressive environment in high-strength concrete with varying bar diameter and bond length 2022

Saqib Hussain Musaad Zaheer Nazir Khan Hammad Anis Khan
Construction and Building Materials, Volume 349, Article Number 128779

Impact Factor: 7.693 | **Quartile:** 1 | **Citations:** 36
DOI: <https://doi.org/10.1016/j.conbuildmat.2022.128779>

Influence of pyrolytic waste tire residue on the residual performance of high strength concrete exposed to elevated temperatures 2022

Hassan Sardar Rao Arsalan Khushnood Wasim Khaliq Hammad Anis Khan Muhammad Farhan Saleem
Journal of Building Engineering, Volume 54, Article Number 104657

Impact Factor: 7.144 | **Quartile:** 1 | **Citations:** 16
DOI: <https://doi.org/10.1016/j.jobbe.2022.104657>

Performance of cementitious and alkali-activated mortars exposed to laboratory simulated microbially induced corrosion test 2022

Hammad Anis Khan Muhammad Yasir Arnaud Castel
Cement and Concrete Composites, Volume 128, Article Number 104445

Impact Factor: 7.586 | **Quartile:** 1 | **Citations:** 23
DOI: [10.1016/j.cemconcomp.2022.104445](https://doi.org/10.1016/j.cemconcomp.2022.104445)

Corrosion investigation of fly ash based geopolymer mortar in natural sewer environment and sulphuric acid solution 2020

Hammad Anis Khan Arnaud Castel Mohammad S. H. Khan Arnaud Castel Mohammad S. H. Khan
Corrosion Science, Volume 168, Article Number 108586

Impact Factor: 7.205 | **Quartile:** 1 | **Citations:** 88
DOI: <https://doi.org/10.1016/j.corsci.2020.108586>

A binary logistic model for predicting the tertiary stage of permanent deformation of conventional asphalt concrete mixtures 2019

Yasir Ali Muhammad Irfan Abdul Salam Buller Hammad Anis Khan Hafiz M. F. Gul
Construction and Building Materials, Volume 227, Article Number UNSP 116608

Impact Factor: 4.419 | **Quartile:** 1
DOI: [10.1016/j.conbuildmat.2019.07334](https://doi.org/10.1016/j.conbuildmat.2019.07334)

Durability of calcium aluminate and sulphate resistant Portland cement based mortars in aggressive sewer environment and sulphuric acid 2019

Arnaud Castel Hammad Anis Khan Mohammad S. H. Khan Aziz H. Mahmood
Cement and Concrete Research, Volume 124, Article Number UNSP 105852

Impact Factor: 8.328 | **Quartile:** 1 | **Citations:** 97
DOI: [10.1016/j.cemconres.2019.105852](https://doi.org/10.1016/j.cemconres.2019.105852)

Deterioration of alkali-activated mortars exposed to natural aggressive sewer environment 2018

Hammad Anis Khan Mohammad S. H. Khan Arnaud Castel Jerry Sunarho
Construction and Building Materials, Volume 186, Pages 577-597

Impact Factor: 4.046 | **Quartile:** 1 | **Citations:** 60

DOI: 10.1016/j.conbuildmat.2018.07.137

Performance Evaluation of Resin As a Coating Agent <i>Yasir Ali Hammad Anis Khan</i> <i>Jordan Journal of Civil Engineering</i> , , Volume 11, Issue 4, Pages 594-606 Impact Factor: 0 DOI: -	2017
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Experimental investigation of stress–strain behavior of CFRP confined Low Strength Concrete (LSC) cylinders <i>Hafiz Zain Saeed Qaiser uz Zaman Hammad Anis Khan Rashid Farooq</i> <i>Construction and Building Materials</i> , Volume 104, Pages 208-215 Impact Factor: 3.169 Quartile: 1 Citations: 17 DOI: 10.1016/j.conbuildmat.2015.12.061	2016
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High temperature material properties of calcium aluminate cement concrete <i>Wasim Khaliq Hammad Anis Khan</i> <i>Construction and Building Materials</i> , Volume 94, Pages 475-487 Impact Factor: 2.421 Quartile: 1 Citations: 183 DOI: 10.1016/j.conbuildmat.2015.07.023	2015
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Editorial Activities

Materials and Structures Reviewed Papers for Journals Impact Factor: 3.295	2022
 Reviewed Papers for Journals Impact Factor: 4.419	2020
 Reviewed Papers for Journals Impact Factor: 4.419	2020