

Muhammad Naqeeb Nawaz

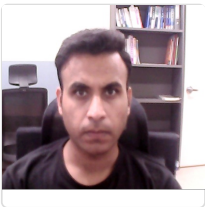
Lab Engineer

NUST Institute of Civil Engineering

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About

Dr. Muhammad Naqeeb Nawaz is working as Lab Engineer in the NUST Institute of Civil Engineering. Dr. Muhammad Naqeeb Nawaz has published 18 research articles & conference papers having a citation count of 303, carried out 0 projects and filed 0 intellectual property.

Qualifications

MS in Geotechnical Engineering NUST, Islamabad , Pakistan	2019 - 2022
BSc in Civil Engineering UET Taxila , Pakistan	2013 - 2017

Experience

Lab Engineer NUST Institute of Civil Engineering	2022- Present
Lab Engineer NUST Institute of Civil Engineering	2022 - 2022
Lab Engineer NUST Institute of Civil Engineering	2022 - 2022
Lab Engineer (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2018 - 2022

Awards

Dr. AQ Khan Gold Medal Got first position in matric on Tehsil Level

Research Articles

Grey-box solution for predicting thermo-mechanical response of rocks <i>Muhammad Naqeeb Nawaz</i> <i>Geothermics</i> , Volume 124, Article Number 103144 Impact Factor: 3.500 Quartile: 1 DOI: https://doi.org/10.1016/j.geothermics.2024.103144	2024
Utilizing undisturbed soil sampling approach to predict elastic modulus of cohesive soils: a Gaussian process regression model <i>Muhammad Naqeeb Nawaz Muhammad Hasnain Ayub Khan Waqas Hassan Syed Taseer Abbas Jaffar Syed Muhammad Turab Haider Jafri</i> <i>Multiscale and Multidisciplinary Modeling, Experiments and Design</i> , Volume 7, Pages 4255-4270 Impact Factor: 1.900 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1007/s41939-024-00458-8	2024
Integrative Geospatial Analysis: Unveiling Insights through GIS Modeling and Statistical Evaluation of SPT-N and Soil Types Data of New Kabul City, Afghanistan <i>Mohammad Amini Longsheng Deng Waqas Hassan Muhammad Naqeeb Nawaz Fatima Zahra Zidane Fatima Zahra Zidane Ranke Fang</i> <i>Advances in Civil Engineering</i> , Volume 2024, Article ID 9925038, 24 pages Impact Factor: 1.500 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1155/2024/9925038	2024
Predicting the rock cutting performance indices using gene expression modeling	2024

Syed Muhammad Turab Haider Jafri Muhammad Naqeeb Nawaz Jun-Sik park Syed Taseer Abbas Jaffar Rahat Hussain Tae-Min Oh
Modeling Earth Systems and Environment, Volume 10, Issue 4, Pages 5783-5798

Impact Factor: 2.700 | **Quartile:** 3 | **Citations:** 3

DOI: <https://doi.org/10.1007/s40808-024-02097-x>

Gene expression programming-based multivariate model for earth infrastructure: predicting ultimate bearing capacity of rock socketed shafts in layered soil-rock strata

2024

Muhammad Naqeeb Nawaz Muhammad Haseeb Sana Ullah Qamar Waqas Hassan Arfan Shahzad
Modeling Earth Systems and Environment, Volume 10, Pages 5241-5256

Impact Factor: 2.700 | **Quartile:** 3 | **Citations:** 12

DOI: <https://doi.org/10.1007/s40808-024-02061-9>

Multivariate formulation to predict the frictional strength of fiber reinforced soils using gene expression programming

2024

Muhammad Naqeeb Nawaz Ahmed Yar Akhtar Tariq Ahmed Awan Muhammad Muneeb Nawaz Sana Ullah Qamar Taimoor Shehzad Waqas Hassan Shah Rukh Khan Rashid Farooq
Engineering Applications of Artificial Intelligence, Volume 134, Article Number 108660

Impact Factor: 7.500 | **Quartile:** 1 | **Citations:** 20

DOI: <https://doi.org/10.1016/j.engappai.2024.108660>

Mathematical formulation for predicting moisture damage indices of asphalt mixtures treated with sustainable waste plastic modifiers using gene expression programming

2024

Safeer Haider Muhammad Naqeeb Nawaz Imran Hafeez Muhammad Muneeb Nawaz Marc Azab Moawia Hassan
Construction and Building Materials, Volume 426, Article Number 136146

Impact Factor: 7.400 | **Quartile:** 1 | **Citations:** 10

DOI: <https://doi.org/10.1016/j.conbuildmat.2024.136146>

Artificial intelligence-based prediction models of bio-treated sand strength for sustainable and green infrastructure applications

2024

Muhammad Naqeeb Nawaz Ahmed Yar Akhtar Waqas Hassan Muhammad Hasnain Ayub Khan Muhammad Muneeb Nawaz
Transportation Geotechnics, Volume 46, Article Number 101262

Impact Factor: 4.900 | **Quartile:** 1 | **Citations:** 22

DOI: <https://doi.org/10.1016/j.trgeo.2024.101262>

Predictive Modelling of Cohesion and Friction Angle of Soil using Gene Expression Programming: A Step Towards Smart and Sustainable Construction

2024

Muhammad Naqeeb Nawaz Badee Alshameri Zain Maqsood Waqas Hassan
Neural Computing and Applications, Pages 1-22

Impact Factor: 6.000 | **Quartile:** 2 | **Citations:** 18

DOI: <https://doi.org/10.1007/s00521-024-09626-w>

Prediction of soil compaction parameters through the development and experimental validation of Gaussian process regression models

2024

Muhammad Hasnain Ayub Khan Syed Muhammad Turab Haider Jafri Sameer Ud-Din Haji Sami Ullah Muhammad Naqeeb Nawaz
Environmental Earth Sciences, Volume:83, Issue:4, Article Number: 129

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 20

DOI: [10.1007/s12665-024-11433-4](https://doi.org/10.1007/s12665-024-11433-4)

A sustainable approach for estimating soft ground soil stiffness modulus using artificial intelligence

2023

Muhammad Naqeeb Nawaz Muhammad Muneeb Nawaz Tariq Ahmed Awan Syed Taseer Abbas Jaffar Syed Muhammad Turab Haider Jafri Tae-Min Oh Waqas Hassan Marc Azab
Environmental Earth Sciences, Volume 82, Issue 23, Article Number 579

Impact Factor: 2.800 | **Quartile:** 2 | **Citations:** 20

DOI: <https://doi.org/10.1007/s12665-023-11193-7>

Experimental Investigation of Mechanical Behavior of Geosynthetics in Different Soil Plasticity Indexes

2023

Waqas Hassan Khalid Farooq Hassan Mujtaba Badee Abdulqawi Hamood Al-Shameri Arfan Shahzad Muhammad Naqeeb Nawaz Marc Azab
Transportation Geotechnics, Volume 39, Article Number 100935

Impact Factor: 4.938 | **Quartile:** 1 | **Citations:** 26

DOI: <https://doi.org/10.1016/j.trgeo.2023.100935>

Statistical interpolation and spatial mapping of geotechnical soil parameters of District Sargodha, Pakistan

2023

Waqas Hassan Muhammad Fazal Raza Badee Abdulqawi Hamood Al-Shameri Arfan Shahzad Muhammad Hamza Khalid Muhammad Naqeeb Nawaz
Bulletin of Engineering Geology and the Environment, Volume 82, Issue 1, Article Number 37

Impact Factor: 4.130 | **Quartile:** 2 | **Citations:** 33
DOI: 10.1007/s10064-022-03059-2

Geospatial and statistical interpolation of geotechnical data for modeling zonation maps of Islamabad, Pakistan

2022

Waqas Hassan Badee Abdulqawi Hamood Al-Shameri Muhammad Naqeeb Nawaz Zain Ijaz Muhammad Qasim Environmental Earth Sciences , Volume 81, Issue 24, Article Number 547

Impact Factor: 3.119 | **Quartile:** 2 | **Citations:** 40
DOI: <https://doi.org/10.1007/s12665-022-10669-2>

Experimental study on shear strength behavior and numerical study on geosynthetic-reinforced cohesive soil slope

2022

Waqas Hassan Badee Alshameri Muhammad Naqeeb Nawaz Sana Ullah Qamar Innovative Infrastructure Solutions , Volume 7, Issue 6, Article Number 349

Impact Factor: 0 | **Citations:** 23
DOI: 10.1007/s41062-022-00945-2

A robust prediction model for evaluation of plastic limit based on sieve # 200 passing material using gene expression programming

2022

Muhammad Naqeeb Nawaz Sana Ullah Qamar Badee Alshameri Muhammad Muneeb Nawaz Waqas Hassan Tariq Ahmed Awan PLoS ONE , Volume 17(10), Article Number e0275524

Impact Factor: 3.752 | **Quartile:** 2 | **Citations:** 20
DOI: 10.1371/journal.pone.0275524

The Study using Machine Learning Approach for Novel Prediction Model of Liquid Limit

2022

Muhammad Naqeeb Nawaz Sana Ullah Qamar Badee Alshameri Steve Karam Merve Kayacı Çodur Muhammad Muneeb Nawaz Malik Sarmad Riaz Marc Azab Buildings , Volume 12, Issue 10, Article Number 1551

Impact Factor: 3.324 | **Quartile:** 2 | **Citations:** 19
DOI: 10.3390/buildings12101551

Analysis of Gabion Retaining Wall Using Analytical and Numerical modelling with Plaxis 2D

2021

Ahmad Ayyub Badee Alshameri Syed Muhammad Jamil Muhammad Naqeeb Nawaz University of Wah Journal of Science and Technology , Volume 5, Issue 1, Pages 12-19

Impact Factor: N/A
DOI: <https://www.uwjst.org.pk/index.php/uwjst/article/view/65>