

CURRICULUM VITAE

Dr. AMANULLAH MARRI

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BIBLIOGRAPHY

Full Name	Amanullah Marri
Father's Name	Haji Jumma Khan
Date of Birth	05-04-1977
Domicile	Sindh Rural (Nawabshah)

AREA OF INTEREST

Educational and practical expertise in the following areas of Geotechnical Engineering:

Subsoil Investigation and Testing	Soft Ground Improvement
Offshore Foundation Problems	Exploring the behaviour of cemented materials
Soil-Foundation Interaction	Geotechnical aspects of subgrade materials
Soil Stabilization, Reinforced Earth Structures	Exploring the behaviour of rocks as an engineering material
Subsurface drainage system analysis and design	

CURRENT ASSIGNMENTS

1. Postgraduate Coordinator
2. PhD and M. Engineering research supervision
3. Supervision of research and commercial testing in the Soil Mechanics laboratory.
4. Supervision of Final Year Projects
5. Undergraduate and M. Engineering courses
6. Infrastructure development of laboratory facilities for research and industrial projects.
7. Supervised, investigations and consultancy of Geotechnical projects.

My future goals and ambitions are to be a well-versed research scholar, professional educator, trainer of knowledge seekers, a facilitator for learners and an explorer of resources for research and development. I am eager to discover new horizons in the field of Geotechnical Engineering, by developing laboratory infrastructure for state-of-the-art research facilitation and introducing numerical/analytical techniques for modelling soil behaviour, particularly in the cutting-edge geotechnical challenges, with the aspiration to serve my country both in academia and in industry.

EDUCATION

PhD	Civil Engineering (Field of specialization– Geotechnical Engineering) Nottingham Centre for Geomechanics, Faculty of Engineering, The University of Nottingham, UK	2010
ME	Civil Engineering (Field of specialization – Geotechnical and Geoenvironmental Engineering), Asian Institute of Technology, Bangkok-Thailand	2005
BE	Civil Engineering Quaid-e-Awam University of Engineering Science and Technology, Nawabshah Sindh	2001

TRAINING& AWARDS RECEIVED

1. Lloyds certified auditor
2. Certificate of Excellency from Vice Chancellor Quaid-e-Awam University of Engineering Science and Technology, Nawabshah. Securing first class second position in BE (Civil Engineering) Degree.
3. Merit Scholarship from the Higher Education Commission of Pakistan to Pursue an M. Engineering Degree from abroad.
4. Fully funded PhD scholarship from the Higher Education Commission of Pakistan under the faculty development program.
5. Passed PhD degree without corrections and have been awarded a shield of honour by the Dean Faculty of the
6. Engineering University of Nottingham.

APPOINTMENTS

June 2012- to date	Professor Department of Civil Engineering NED University of Engineering & Technology, Karachi-75270
June 2010-June 2012	Associate Professor Department of Civil Engineering NED University of Engineering & Technology, Karachi-75270
Nov 2010-June 2010	Assistant Professor Department of Civil Engineering NED University of Engineering & Technology, Karachi-75270
Sept: 2006 –Nov 2010	PhD Research Scholar Nottingham Centre for Geomechanics, Faculty of Engineering, The University of Nottingham, UK
May 2005 – Sept: 2006	Assistant Professor Department of Civil Engineering, NED University of Engineering and Technology, Karachi-75270
August 2003 – May 2005	M Engineering: Student Asian Institute of Technology, Bangkok-Thailand
April 2002 – August 2003	Lecturer Department of Civil Engineering, NED University of Engineering and Technology, Karachi-75270.

ADDITIONAL CHARGES

Duration	Charge
October 2024-October 2026	Member Board of Studies BUET-Khuzdar
January 2022-Till date	IGS Pakistan-NED Chapter Member
June 2023- Till date	Department of Civil Area Coordinator

June 2013- 2018	Department of Civil Area Coordinator
June 2011-June 2012	Class Advisor BE(Civil)

JOURNAL RESEARCH PAPERS

No.	Complete Citation for the Publication
1	Marri, A., Kumar, A. (2006) Hydrodynamic Pressure on Concrete dams during the Earthquakes. Mehran University Research Journal of Engineering and Technology, Volume 25, No. 2. Pp. 97-112.
2	Ud-din, S., Marri, A. and Wanatowski, D. (2011), Effect of high confining pressure on the behaviour of fibre reinforced sand. <i>Geotechnical Engineering Journal of the SEAGS & AGSSEA</i> Volume. 42, No.4. pp. 69-76.
3	Marri, A., Wanatowski, D. and Yu, H.S. (2012). Drained behaviour of cemented sand in high-pressure triaxial compression tests. <i>Geomechanics and Geoengineering: An International Journal</i> . Vol. 7, No. 3. pp. 159–174.
4	Uddin, S., Marri, A. and Kumar, A. (2013). Isotropic Compression Behaviour of Fibre Reinforced Cemented Sand, <i>Mehran University Research Journal of Engineering & Technology</i> , 32(3), 181-191
5	Muhammad, G., A. Marri and A. M. Shar (2018). "Development of Experimental Setup for Measuring Thermal Conductivity Characteristics of Soil." <i>Mehran University Research Journal of Engineering and Technology</i> 37(4): 559-568.
6	Muhammad, G. and Marri, A. (2018). "Difficulties in the Sample Preparation and Testing of Modified Soils." <i>Indian Journal of Science and Technology</i> 11(14).
7	Muhammad, G. and A. Marri (2018). "Immediate and long-term effects of lime and wheat straw on consistency characteristics of a clayey soil." <i>Geomechanics and Engineering</i> 16 (3): 217-231.
8	Muhammad, G. and A. Marri (2018). "Chemical Analysis of Reinforced Stabilized Soil." <i>Indian Journal of Science and Technology</i> 11(32).
9	Ali, S., Yong, F., Marri, A., Jamil, F. and Mehmood, M., (2023) Effect of expanded polystyrene beads and fly ash on the strength and deformation characteristics of soil. <i>Journal of Xi'an Shiyu University, Natural Science Edition</i> . Vol 19 No. 02 pp. 829-841, ISSN: 1673-064X, Category-Y, Impact: 0.38
10	Moin, S., Marri, A., and S. Qasim (2023). "Effect of input parameters on dynamic characteristics of clayey soil through dynator - a non-destructive test." <i>Journal of Jilin University (Engineering and Technology Edition)</i> 42(11): 85-94. ISSN: 1671-5497, Category-X, Impact:
11	Rafi, Muhammad Masood, Sher Khan, Amanullah Marri, and Muhammad Aslam Bhutto. "Experimental Evaluation of Flexural and Bond Behaviours of Adobe Masonry." (2023). Category-X, Impact:
12	Marri, A., G. Muhammad, F. Ullah, Z. Ali and S. Moin (2024). "Effect of wheat straw on the dynamic properties of clayey soils." <i>Journal of Xi'an Shiyu University, Natural Science Edition</i> 20(1): 01-06, ISSN: 1673-064X , Category-Y, Impact: 0.38
13	Marri, A., G. M., Z. Ali, S. H. S. Yousfani and S. Moin (2024). "Fibre and fabric characterization of soil bags used for erosion control of embankments." <i>Journal of Xi'an Shiyu University, Natural Science Edition</i> 20(1): 510-522. Category-X, Impact:
14	Marri, A., G. Muhammad and F. Ullah (2024). "The impact of the amount of lime on the dynamic characteristics of clayey soils." <i>Journal of Xi'an Shiyu University, Natural Science Edition</i> 20(01): 186-193. Category-X, Impact:
15	Muhammad, G., A. Marri and A. A. Ansari (2024). "Impact of Lime Stabilization on the Dry Density, Specific Gravity, and Moisture Content of Clayey Soil." <i>Zhongguo Kuangye Daxue Xuebao</i> 29(4): 168-174. Category-X, Impact:1.92
16	Marri, A. M., Gul; Abbasi, Shaista Jabeen; Akhtar, Shoaib (2024). "Geotechnical Ground Investigation and Pile-Foundation Interaction for Hub River Bridge." <i>Journal of Tianjin University Science and Technology</i> 57(8): 69-88. Category-X, Impact:1.1
17	Marri, A., A. Qadir, G. Muhammad, A. Ghaffar and S. Akhtar (2024). "Improving Flexible Pavement Performance Through the Application of Geotextiles." <i>Journal of Liaoning Technical University (Natural Science Edition)</i> 18(2): 218-230. Category-Y, Impact: 0.38
18	Muhammad, G., A. Marri, A. Asghar and J. Sherani (2024). "Effect of Wheat Straw on the Specific Gravity, Optimum Moisture Content and Maximum Dry Density of Clayey Soil." <i>Journal of Liaoning Technical University (Natural Science Edition)</i> 18(2): 125-134. Category-Y, Impact: 0.38

19	Marri, A., G. Muhammad, Z. Ali, S. H. S. Yousfani and S. Moin (2024). "Fibre and Fabric Characterization of Soil Bags Used for Erosion Control of Embankments." Journal of Xi'an Shiyou University, Natural Science Edition 20(1): 510-522. Category-X, Impact:
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CONFERENCE PAPERS

No.	Complete Citation for the Publication	Category
1	Marri, A., Wanatowski, D. and Yu, H.-S., 2010. Drained behaviour of cemented sand at high pressures. In: Proc. 17 th Southeast Asian Geotechnical Conference, Taipei, 10-13 May 2010. Vol. 1, pp.17-20.	Peer-Reviewed International Conference
2	Tsai, M.-T., Wanatowski, D., Marri, A. and Ud-din, S., 2010. Undrained behaviour of cemented sand at high pressures. In: Proc. 17th Southeast Asian Geotechnical Conference, Taipei, 10-13 May 2010. pp. Vol. 1, 29-32.	Peer-Reviewed International Conference
3	Ud-din, S., Marri, A., Wanatowski, D. and Reddish, D. J., 2010. Effect of fibre reinforcement on drained behaviour of cemented sand. In: Proc. 17th Southeast Asian Geotechnical Conference, Taipei, May 10-13, 2010. Vol. 1, pp.134-138.	Peer-Reviewed International Conference
4	Marri, A., Wanatowski, D. and Yu, H.S. (2010) "The behaviour of cemented granular materials at high pressures" <i>The Spencer Institute Engineering Mechanics Symposium 2010. Poster presentation The University of Nottingham UK.</i>	Poster presentation.
5	Ud-din, S., Marri, A. and Wanatowski, D. (2011) "Effect of High Confining Pressure on the Behaviour of Fibre Reinforced Cemented Sand" <i>The 5th International Symposium on deformation characteristics of geomaterials Seoul, Korea.</i>	International Symposium
6	Ud-din, S., Marri, A., Wanatowski, D., and Reddish, D. J. (2011), Behaviour of cemented sand reinforced with polypropylene fibres. Proc. 14th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Hong Kong, China, May 23-27, 2011, available on CD-ROM.	Peer-Reviewed International Conference
7	Marri, A., Wanatowski, D. and Yu, H.S. (2012). Dilatancy Characteristics of Cemented Sand at Relatively High Stresses. <i>Third International Conference on Construction in Developing Countries (ICCIDC-III), Bangkok, Thailand July 4-6, 2012.</i> available on CD-ROM.	Peer-Reviewed International Conference
8	S. Uddin, D. Wanatowski, M.R. Hall and A. Marri , (2012). Stress-Dilatancy and Micromechanics of Fibre-Reinforced Sand, Geosynthetics Asia 2012, 5th Asian Regional Conference on Geosynthetics, 13 to 16 December 2012, Bangkok, Thailand.	Peer-Reviewed Regional Conference
9	D. Wanatowski, S. Ud-Din, M.R. Hall, A. Marri , Effect of discrete fibres on the stress- dilatancy and micromechanics of fibre-reinforced sand, Geosynthetics 2013, 1-4 April 2013, Long Beach, California, USA.	Peer-Reviewed International Conference
10	Dariusz Wanatowski, Nor Zurairahetty Mohd Yunus, Jhen Pei Seah, Salah Ud-Din and Amanullah Marri , Fibre reinforcement – a sustainable method of soil improvement, 18 th Southeast Asian Geotechnical Conference in Singapore (29-31 May 2013).	Peer-Reviewed International Conference
11	Salah Ud-Din, Amanullah Marri , Dariusz Wanatowski, Effectiveness of fibre and cement in isotropic compression, 18th Southeast Asian Geotechnical Conference in Singapore (29-31 May 2013), pp-115-120.	Peer-Reviewed International Conference
12	Amanullah Marri and Adnan Qadir, Subgrade Stabilization Using Geosynthetics 6 th International Civil Engineering Congress (ICEC 2013), Karachi-Pakistan, 28 th December 2013.	Peer-Reviewed International Conference
13	Amanullah Marri and Salah Ud-Din, Undrained Behaviour of Fiber Reinforced Cemented Sand at High Pressures 1 st National Conference on Civil Engineering (Modern Trends & Advancements) 28-29 April 2014 Nawabshah-Sindh, Pakistan. available on CD-ROM.	Peer-Reviewed National Conference
14	Marri, A., Uddin, S. and Wanatowski, D. (2014). Sample Preparation Technique for Fiber Reinforced Cemented Soils, Procedia Engineering, 77, 140-147.	
15	Syed Abdul Ghafar, Amanullah Marri (2017). CBR Improvement of Road Subgrade Clayey Soil with Geotextiles, 9 th International Civil Engineering	Peer-Reviewed International

	Conference (ICEC-2017)“Striving Towards Resilient Built Environment” December 22-23, 2017, Karachi, Pakistan.	Conference
16	Muhammad, G. and A. Marri (2018). “Effect of lime and wheat straw on optimum moisture content and maximum dry density of clayey soils” 5th International Conference on Earth Science Pakistan 2018 Baragali Summer Campus, University of Peshawar August 11-13, 2018.	Peer-Reviewed International Conference

CONFERENCE PARTICIPATION

No.	Name of Conference	Theme	Participation
1	International Conference on Sustainable Development in Civil Engineering (ICSDC-2019) at Mehran University of Engineering & Technology, Jamshoro.	Sustainable Development	Keynote Speaker
2	13 th International Civil Engineering Conference on 10 th - 11 th November 2023 at NED University of Engineering and Technology, Karachi.	Creating global partnership for sustainable development through Civil Engineering	Session Chair
3	14 th International Civil Engineering Conference on 15 th -16 th November 2024 at NED University of Engineering and Technology, Karachi.	Advancing Civil Engineering: Innovation for achieving UN sustainable development goals	Session Chair

TEACHING AND RESEARCH

UNIVERSITY TEACHING EXPERIENCE

Over 23 years of university-level teaching at NED University of Engineering & Technology, progressing from Lecturer (2002) to Professor (2012–present).

COURSES TAUGHT

No.		
1	Soil Mechanics (Theory/practical)	Undergraduate
2	Surveying (Theory/practical)	
3	Engineering Materials (Theory)	
1	Rock Mechanics	Postgraduate
2	Foundation Engineering	
3	Computer Applications in Geotechnical Engineering	
4	Subsurface Hydrology	
5	Groundwater and Seepage	
6	Transportation Geotechniques	
7	Soil Stabilization	
8	Foundation Engineering an online course at the British University in Dubai May-2023	
1	Advanced Soil Dynamics CE-625	PhD
2	Advanced Experimental Techniques in Geomechanics CE-621	
3	Computational Geomechanics CE-622	
4	Advanced Soil Stabilization CE-623	

RESEARCH EXPERIENCE

21+ years of research supervision (PhD and M. Engg), including HEC-approved PhD supervisor.

- 1) HEC Approved PhD research supervisor
- 2) Supervision of the PhD research project
- 3) Supervision of M. Engineering Research projects (ISPs)
- 4) Supervision of final year projects at NED University
- 5) Co-supervision of M. Engineering Students at Nottingham Centre for Geomechanics at the University of Nottingham.

M. Engineering Research Supervision (Recent)

No.	Project Titles	Year
1.	Effect of soil stabilization and reinforcement on the shear strength characteristics of clayey soils	2018-2019
2.	Effect of lime and wheat straw on the dynamic properties of clayey soils (using resonant column testing)	2018-2019
3.	Feasibility Study of Coastal Land Reclamation Using Municipal Solid Waste	2018-2019
4.	The behaviour of reinforced and stabilized soil under cyclic loading (using dynamic triaxial testing)	2018-2019
5.	Determination of appropriate mixes for the construction of affordable houses in Pakistan	2018-2019
6.	Effect of temperature on dynamic properties of reinforced bricks	2018-2019
7.	Geotechnical investigation and analysis of earthen dam embankment materials	2018-2019
8.	Effect of fly ash on the mechanical behaviour of clayey soils	2019-2020
9	Assessment of Soil Behaviour under Static and Dynamic Loading Conditions using Plaxis	2024-2025

PhD Research Supervision

No.	Research title	Year
1	Exploration of the advantages and commercial viability of using lime and wheat straw as soil stabilizing agents	2015-2019
2	Effect of soil stabilizing and reinforcing agents on the dynamic properties of clayey soils	2019- 2024

CONSULTANCY PROJECTS

Name of the few Industry related projects

No.	Name of Project	Date and durations
1	Geotechnical Investigation of Head regulator upper and lower Nara Canal	2012
2	Geotechnical testing and laboratory investigations for DHA City Karachi	2013
3	Palari Goth Super Highway Geotechnical investigation for a Highway project	2013
4	Koh Baloch Builders Hub City Baluchistan Foundation analysis for various Building projects	2013
5	External Development and Infrastructure works at IBA-Main Campus Karachi	2013
6	Geotechnical Soil Investigation at Malir Cantt: Karachi	2013
7	National Highway Authority (NHA) RBOD Bridge at Hyderabad Bypass	2013
8	Ghotki Feeder Geotechnical Investigations Through Soilmat Engineers	2014
9	Sino Sindh Resources (Pvt.) Ltd.	2016
10	Geotechnical Investigation/lab testing of Port Qasim Bridges-Port Qasim Authority	2015
11	Geotechnical Investigation/lab testing of Civil Aviation Tower at Jinnah	2015

	International Airport, Karachi-CAA	
12	Geotechnical Site Investigation for Bridge Pile Foundations at Turban to Hoshab (M-8) Project-FWO	2016
13	Geotechnical Investigations for Phulleli River rehabilitation project-Hyderabad	2016
14	Geotechnical Site Investigation of Fazaia Housing Scheme Karachi.	2017
15	Geotechnical Investigation/Lab Testing of Thar Coal Project	2015
16	Geotechnical and Environmental Impact Assessment of Railway Line from Rohri to Taftan (Railway track upgradation)	2018
17	Geotechnical Site investigation of Gharo Power plant	2019
18	Member of the forensic committee for Forensic investigation of the land contaminated by waste effluent from Jamshoro Power plant under Constitutional Petition No.380/2017 Filed by Mr. Muhammad Usman V/S Federation of Pakistan & Others	2019
19	Geotechnical Site Investigation for 132 KV Grid Stations in Baluchistan	2020
20	Members as Inspection Team for site inspection of Saima Square-1, Block-10/A near Millennium Mall, Gulshan-e-Iqbal, Karachi.	2020
21	Geotechnical Site Investigation for Reti-Marui and Daru Gas Field	2021
22	Invitation to Conduct Building Structure / Foundation Survey & Provision of Consultancy at PTA Zonal Office Karachi	2021
23	Geotechnical site investigation of Netty-Jetty connective bridge	2022
24	Geotechnical Site Investigation of Hub River Bridge	2023
25	Excavatability Analysis of the site for Sindh Madressatul Islam University Malir Campus	2023
26	Geotechnical testing and analysis of the materials for Anchorage Karachi	2024
27	Excavatability Analysis of the site for the drainage system design at DHA Karachi	2024
28	Provision of Geotechnical Testing and Investigation facilities to Various Dam And Road Projects (Panjgur Dam, Awaran Dam, Turbat Dam etc.,)	2025

ROUTINE LABORATORY TESTING

Soil Classification	Shear Strength Tests	Consolidation Testing Using Oedometer
Triaxial Testing (UU, CU, CD)	Permeability tests of Soils	CBR tests (Unsoaked and Soaked)
Proctor Compaction (Standard, Modified)	Dynamic Triaxial Testing	Resonant Column Testing
Relative Density Tests	Chemical Testing of Soil (pH, Soil Salinity, Sulphate Chloride etc.)	Chemical Testing of Water (pH, Chloride, Hardness, Sulphate, Electrical Conductivity etc.)
Conductivity tests of soil and rocks (Thermal and electrical)	Rock Testing (UCS, Slake Durability, Soundness etc.)	Dispersivity Tests of Soil (Crump, double hydrometer, Pinhole)
Field Density Testing (FDT)	Petrographic Analysis of aggregates	LA Abrasion, Crushing Strength,
Swell and Collapse Potential Tests of soft soils	Sphericity and Roundness Tests	Sedimentation Analysis of Suspended Particles

PROFESSIONAL AFFILIATIONS

- 1) Lifetime member of Pakistan Engineering Council Civil/21120
- 2) Institute of Engineers Pakistan (IEP)
- 3) Earthquake Engineering Research Institute (EERI)
- 4) Review panel member of *Geotechnical Testing Journal*
- 5) Review panel member of *Sir Syed University Research Journal*
- 6) Review panel member of *Mehran University Research Journal*
- 7) Review panel member of *Elsevier Research journals*
- 8) Editorial member *Arabian Journal of Geosciences*