

## Prof. Dr. Naeem Aziz Memon

B.E (Civil), M.E (UTM, Malaysia), M.E (MUET, Pakistan) PhD (University of Nottingham, UK)

### Professor

Department of Civil Engineering Mehran UET,  
Jamshoro, 76062, Sindh, Pakistan

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## PERSONAL INFORMATION

- Name Naeem Aziz Memon
- Profession Professor, Highway & Transportation Engineer
- Nationality Pakistani
- Date of Birth November 13, 1976
- Years of Experience (Total) Sixteen (18)
- Pakistan Engineering Council CIVIL/21006
- Mailing Address A-145, Mir Hassanabad, Hussainabad, Hyderabad
- Contact +92-334-2344431 (Cell)
- Email [naeem.aziz@faculty.muett.edu.pk](mailto:naeem.aziz@faculty.muett.edu.pk)

## ACADEMIC QUALIFICATIONS

| <u>Degree</u>                           | <u>Year of Passing</u> | <u>Institution</u>             |
|---|------------------------|--------------------------------|
| PhD (Civil Engineering)                 | 2011                   | University of Nottingham, UK   |
| M.E. (Transportation & Highways)        | 2005                   | University Technology Malaysia |
| M.E. (Communication systems & Networks) | 2005                   | MUET, Jamshoro, Pakistan       |
| B.E. (Civil Engineering)                | 2000                   | QUEST, Nawabshah, Pakistan     |

## PRESENT STATUS

- Working as Full time Professor in the Department of Civil Engineering Mehran University of Engineering & Technology Jamshoro, Sindh – Pakistan.
  - Responsibilities include: Teaching civil engineering subjects to undergraduate and postgraduate students; helping students in Highway and Transport projects; design and development of curriculum for transportation engineering courses; demonstrating experiments in transportation engineering laboratory and supervising undergraduate and postgraduate thesis.
- In addition to academic responsibilities, additional charge of Director of MIS has been assigned by the University.
  - The job includes supervising and managing the Information system of the University. The directorate is mainly responsible to maintain the record of student attendance and provide eligibility at the examinations.
- Worked as Director/Inspector of affiliated colleges.
  - The job included supervising and managing whole process of admissions, monitoring of classes and conduct of examination in the affiliated colleges. The directorate also registers and keeps the record of enrolment of the students in addition to other various administrative functions.

- Worked as Internal Quality Coordinator under ISO Quality Enhancement Cell, MUET-Jamshoro
- Working as visiting faculty in the other Engineering colleges and teaching various subjects.

## PROFESSIONAL EXPERIENCE

- |   |   |
|---|---|
| 1. <b>Professor</b> (October, 2016 to date)                             | <b>Department of Civil Engineering<br/>Mehran University of Engineering &amp;<br/>Technology Jamshoro, PAKISTAN</b>                             |
| 2. <b>Associate Professor</b> (March 2013 to September, 2016)           | <b>Department of Civil Engineering<br/>Mehran University of Engineering &amp;<br/>Technology Jamshoro, PAKISTAN</b>                             |
| 3. <b>Assistant Professor</b> (Jan 2012 to Feb 2013)                    | <b>Department of Civil Engineering<br/>Mehran University of Engineering &amp;<br/>Technology Jamshoro, PAKISTAN</b>                             |
| 4. <b>Lecturer</b> (Jan 2007, Dec 2011)                                 | <b>Department of Civil Engineering<br/>Mehran University of Engineering &amp;<br/>Technology Jamshoro, PAKISTAN</b>                             |
| 5. <b>Network Administrator</b> (July, 2003- Dec-2006)                  | <b>Department of Computer Systems<br/>and Software Engineering<br/>Mehran University of Engineering &amp;<br/>Technology Jamshoro, PAKISTAN</b> |
| 6. <b>CAD Engineer</b><br>/Network Administrator (Dec, 2000-June -2003) | <b>NESPAK Engineering Consultant<br/>Pakistan</b>   |

## COMPUTER SKILLS

| Certification                              | Awarding Agency            |
|--|----------------------------|
| MCSE (Microsoft Certified System Engineer) | Microsoft Corporation -USA |
| MS- Office (Word, Excel & Power Point)     | HIIT                       |
| Auto CAD-2000/2006                         | IT-Vision                  |
| SAP 2000                                   | IT-Vision                  |

## TRAINING, CERTIFICATES AND ACHIEVEMENTS

- Member Board of Studies in **Mehran University** of Engineering & Technology, **Quaid-e-Awam University** of Engineering, Sciences and Technology-Nawabash, **ISRA University** of Engineering and Medical Sciences and **Baluchistan University** of Engineering and Technology.
- Attended different trainings to implement Outcome Based Education (OBE) system in Mehran, UET - Jamshoro
- Received highly competitive PhD Fully Funded scholarship by Higher Education Commission Pakistan under Faculty Development Program at University of Nottingham- United Kingdom in 2007.
- Worked as Part-time Lecturer under Teaching Assistantship program for three (03) years at University of Nottingham, UK.
  - Conducted and demonstrated undergraduate classes and laboratory practical respectively
  - Co-supervised Masters Research activities.

- Performed invigilation duties during the examination period.
- Awarded Teaching Assistantship for 12 months at University Technology Malaysia in 2006 during Masters Degree Program
  - Demonstrated and performed undergraduate laboratory practical.

## **Degree Dissertations**

- Doctor of Philosophy (Civil Engineering): **“Characterization of Conventional and Chemically Dispersed Crumb Rubber Modified Bitumen and Mixtures”**
- Master of Engineering (Transportation and Highways): **“Comparison between Superpave Gyratory and Marshall Laboratory Compaction Methods”**
- Master of Engineering (Communication Systems and Networks): **“Architecting FCSAN for Mehran University of Engineering and Technology, Jamshoro - Pakistan:”**
- Bachelor of Engineering (Civil Engineering): **“Structural Characterization of State Life building Hyderabad – Pakistan”**

## **RESEARCH PUBLICATIONS**

1. Physical, Thermal and Micro-surface Characteristics of PG76 Binder Incorporated with Liquid Chemical WMA Additive. *Construction & Building Materials*, 272 (2021)121626.
2. The Effects of Moisture Susceptibility and Ageing Conditions on Engineering Properties of Nanosilica-Polymer-Modified Asphalt Blended with High RAP Contents, *Jordan Journal of Civil Engineering*, Volume 13, No. 3, 2019
3. Design of Cold Recycled Emulsified Asphalt Mixtures Using Portland Cement as A Partial Replacement of Aggregate Mineral Filler, *International Journal of Modern Research in Engineering & Management (IJMREM)* Volume 1-No. 10, 2018
4. Design and Evaluation of Open Graded Hot Mix Asphalt Using Cement as A Grouting Material, *International Journal of Modern Research in Engineering & Management (IJMREM)* Volume 1-No. 10, 2018
5. Effect of Waste Tyre Rubber as Filler on the Mechanical Properties of Hot Mix Asphalt, *Engineering Sciences and technology International Research Journal* Vol. 2, NO.3, 2017
6. The Effects of Moisture Damage on Asphalt Mixtures Modified with Additives and Polymer, *Jurnal Kejuruteraan - Isu Khas 1 (Special Issue 1)* 2017: 3-8, 2017
7. Rigid Pavement Design Using Recycled Asphaltic Materials, *Sindh University Research Journal (Sci. Ser.)*, Vol. 48, No.2, 2016
8. Investigation of Hot Storage Stability of CRMB using X-ray Computed Tomography, *International Journal of Engineering and Technology*, vol. 8, No. , 2016
9. Changes in Densities of Basic Constituents during CRMB Production, *International Journal of Engineering and Technology*, Vol. 8, No. 1, p. 440 – 451, 2016
10. An Expert system to Remedy Concrete Imperfections and their Effects on Rigid Pavements, *Jurnal Teknologi (Sciences & Engineering)* 76:14 (2015) 105–119, 2015
11. Effect of variation in blending variables on the properties of CRMB, *Mehran University Research Journal of Engineering & Technology*, Vol. 32, No. 2, p. 175 – 182., 2015

12. Influence of the variation in material constituents on the properties of the crumb rubber modified bitumen blends, Sindh University Research Journal (Science Series), Vol. 44, No. 04, p. 687 – 690, 2012
13. Influence of scrap tyre processing techniques on the physical properties of the crumb rubber, Mehran University Research Journal of Engineering & Technology, Vol. 31, No. 4, p. 703 – 710, 2012
14. Reduction of Cracking and Shrinkage in Compressed Clay Beams during Drying ” Mehran University Research Journal of Engineering & Technology, Vol. 35, No. 3, p. 247-252, 2016
15. Effect of Firing on Cracking and Warping of Clay Beams.” Mehran University Research Journal of Engineering & Technology, Vol. 35, No. 2, p. 247-252, 2016
16. “Estimation of Parameters and Flow Characteristics for the Design of Sanitary Sewers in Malaysia.” Mehran University Research Journal of Engineering & Technology, Vol. 32, No. 1, p. 95 – 102, 2013
17. “Liquefaction Potential of Silty Sand in Simple Shear ” Mehran University Research Journal of Engineering & Technology, Vol. 32, No. 1, p. 85-94, 2013
18. Analysis of the Runoff Generated due to The 2011 Monsoon Rainfall in Sindh using HEC-HMS, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, p. 159-162, 2013
19. “Hydraulic Modeling of Natural Waterways of left bank of River Indus in Sindh with HEC-RAS”, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, p. 149-152, 2013
20. “Development of bed ridges in open channels and their effects on secondary currents and wall shear.” Mehran University Research Journal of Engineering & Technology, Vol. 31, No. 3, p. 502 – 516, 2012
21. “The setup and validation of a numerical model for wall shear in trapezoidal open channels.” Sindh University Research Journal (Science Series), Vol. 44, No. 04, p. 613 – 616, 2012
22. “Boundary shear stress distribution in curved open channels using computational fluid dynamics (CFD) model.” Sindh University Research Journal (Science Series), Vol. 44, No. 04, p. 727 – 730, 2012
23. “Determination of turbulence coefficient using genetic algorithms.” Mehran University Research Journal of Engineering & Technology, Vol. 31, No. 4, p. 651 – 658, 2012
24. “Effects of the length of jet grouted columns and soil profile on the settlement of shallow foundations.” Mehran University Research Journal of Engineering & Technology, Vol. 31, No. 3, p. 517 – 528, 2012
25. “Stiff columns as liquefaction mitigation measure for retrofit of existing buildings.” Mehran University Research Journal of Engineering & Technology, Vol. 31, No. 4, p. 659 – 668, 2012

## Conference Proceedings

- “Alternative methodologies to evaluate storage stability of rubberised bitumens.” Proceedings of 12th International Conference on Asphalt Pavements, ISAP 2014, Volume 2, ISAP 2014; Raleigh, NC; United States , Pages 1481-1489.
- “Formulation of CRMB Laboratory Blending Protocol by varying blending variables”; Ist National Conference on Advanced Civil Engineering Trends – QUEST, 2013
- “Comparison between Bitumen Modified with Crumb Tyre Rubber and Styrene Butadiene Styrene”, MAIRPAV, 2009

- “Comparison between various bituminous binders modified with crumb tyre rubber”, Asphalt Rubber 2009
- “Comparison between Superpave Gyrotory and Marshall Laboratory Compaction Methods of Hot Mix Asphalt Mixtures”, SEPKA 2006, UTM – Malaysia



# THE UNIVERSITY OF NOTTINGHAM

It is hereby certified that after having satisfied all the  
conditions prescribed by the University

**NAEEM AZIZ MEMON**

was on the

sixteenth day of December, 2011

duly admitted to the degree of

Doctor of Philosophy



*Vice-Chancellor*

*Registrar*

2007M - 000028

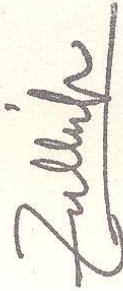
**UNIVERSITI  
TEKNOLOGI  
MALAYSIA**

THE SENATE HAS CONFERRED UPON


**NAEEM AZIZ MEMON**

THE DEGREE OF

**MASTER OF ENGINEERING  
(CIVIL - TRANSPORTATION AND HIGHWAY)**



VICE-CHANCELLOR



REGISTRAR

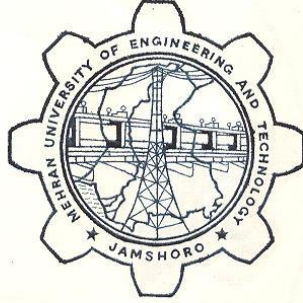


DEAN,  
SCHOOL OF GRADUATE STUDIES

24 MARCH 2007




بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



## Mehran University of Engineering and Technology

It is hereby certified that Mr/Ms Naeem Aziz %  
Abdul Aziz Memon after having satisfied  
all the conditions prescribed by the University has been duly admitted  
to the degree of **Master of Engineering** in Communication Systems &  
Networks,  
this 19<sup>th</sup> day of January, 2007.

  
Controller of  
Examinations

  
Registrar

  
Vice-Chancellor



Jamshoro  
Dated the 01<sup>st</sup> March, 2007





**ORDER**

As recommended by 102<sup>nd</sup> Selection Board held on 9<sup>th</sup>, 23<sup>rd</sup> September, 27<sup>th</sup>, 29<sup>th</sup> October and 8<sup>th</sup> November, 2016 vide its Resolution No.102.4(i)(a)(3) and subsequent approval by 139<sup>th</sup> Syndicate vide its Resolution No.139.5 (ii) held on 10<sup>th</sup> December, 2016, the Vice Chancellor, Mehran University of Engineering & Technology, Jamshoro has been pleased to appoint Dr. Naeem Aziz Memon, Associate Professor (BPS-20), Department of Civil Engineering of the University as Professor (BPS-21) in the same Department with effect from 27<sup>th</sup> October, 2016 on Rs.63,780/- per month in the Basic Pay Scale of 63780-4150-121880 against the lien vacancy of Dr. Abdul Latif Qureshi, Professor (BPS-21), IWREM of the University.

The other terms and conditions of his previous appointment shall remain the same.

His pay will be fixed lateron.



**REGISTRAR**

✓ Dr. Naeem Aziz Memon,  
Associate Professor,  
Department of Civil Engineering,  
MUET, Jamshoro.

Copy f.w.cs to: -

1. The Dean, Faculty of AR&CE, MUET, Jamshoro.
2. The Chairman, Deptt: of Civil Engineering, MUET, Jamshoro.
3. The Director (P&D), MUET, Jamshoro.
4. The Director, HR, MUET, Jamshoro.
5. The Director Finance, MUET, Jamshoro.
6. The Resident Auditor, MUET, Jamshoro.
7. The Secretary to Vice Chancellor, MUET, Jamshoro.
8. The Secretary to Pro Vice Chancellor, MUET, Jamshoro.
9. Personal file.

