

Dr. Rizwan Ali Memon
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Faculty of Architecture and Civil Engineering
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RESEARCH INTREST

Transportation Engineering, Highway Design, Traffic Engineering, Highway Materials

EDUCATION

- PhD, Transportation Engineering, Mehran University of Engineering & Technology, Jamshoro (2008)
- M.E, Civil Engineering, Mehran University of Engineering & Technology, Jamshoro (2001)
- B.E, Civil Engineering, Mehran University of Engineering & Technology, Jamshoro (1991)

EMPLOYMENT HISTORY

- Feb 2015 to April 2015 Visiting Faculty, Jubail University College, Jubail, KSA
- Dec. 2010 to date Professor, Department of Civil Engineering, MUET
- Oct. 2009 - Dec. 2010 Associate Professor, Department of Civil Engineering, MUET
- Feb. 1998 – Oct. 2009 Assistant Professor, Department of Civil Engineering, MUET
- Sep. 1992 – Feb. 1998 Lecturer, Department of Civil Engineering, MUET
- Dec. 1991 – Sep. 1992 Research Fellow, Department of Civil Engineering, MUET

ADMINISTRATIVE EXPERIENCE

- Dean, Faculty of Architecture and Civil Engineering, April 2023 to date

- Chairman, Department of Civil Engineering, August 2020 to April 2023
- Chairman University Discipline Committee, August 2019 to date
- Director Human Resources, October 2015 to January 2020
- Director Admissions, June 2013 to February 2015
- Member University Discipline Committee, August 2015 to July 2019
- Member Admission Committee August 2010 to May 2022
- Member, Inquiry Team of Prime Minister Inspection Commission, July 2009 to Dec 2009. “for inspection of National Highway and other roads constructed by National Highways Authority and C&W Department, Government of Sindh”

PROFESSIONAL ASSOCIATION

- **Professional Engineer, Pakistan Engineering Council (Civil / 13674)**
- **Member, Institute of Engineers Pakistan (Civil / M-16449)**

SUPERVISION / GUIDANCE IN THE RESEARCH PROJECTS

Supervisor in Postgraduate Thesis/Project

- M. E Thesis titled “Study of Locally available Bitumen sources for Asphalt Mix Design” by Assadullah Kalhoro
- M. E Thesis titled “Prediction of Operating Speed Along N-65 (Sibi-Quetta) Section” by Manzoor Hussain Dahani
- M.E Thesis titled “Effect of Agricultural and Commercial waste as filler on the properties of Hot Mix Asphalt (HMA)” by Abdul Hafeez Memon
- M.E Thesis titled “Fresh and Hardened Properties of Blended Limestone Powder and Ground Granulated Blast Furnace Slag made Concrete” by Akhtar Ali
- M.E Thesis titled “Effect of Date Palm Fiber on the Engineering Properties of Expansive Jamshoro Shale” by Pirh Lela
- M.E Thesis titled “Correlations Between Relative Density and Compaction Test Parameters” by Chhanve Zehra
- M.E Thesis titled “Compaction and swelling characteristics of expansive soil stabilized with silica fume and Metakaolin” by Arbeela Sharaf
- M.E Thesis titled “Shear strength characteristics of expansive soil stabilized with silica fume and Metakaolin” by Sidra Qadir

Supervision in Undergraduate Thesis Project

Remained as supervisor to various groups at undergraduate level for their research projects in the following research areas;

- Highway Geometric & Structural Design
- Pavement Design
- Asphalt Mix Design
- Highway Materials
- Riding Quality & Structural Behavior of Highway

RESEARCH CONTRIBUTION

- PhD, Dissertation (2008), “Geometric Design Consistency on Two-Lane Two-Way Roads in Pakistan”
- M.E, Dissertation (2001), “Estimation of Saturation Flow at Signal Controlled Intersections at Karachi”
- Reviewer of HEC/ NRPU Projects, since 2018 to date
- Reviewer of International Journal of Civil Engineering, Iran, since 2017 to date

AWARDS

- **HEC Approved Supervisor (2021)**
- **HEC Indigenous PhD Scholarship (2006)**

PUBLICATIONS

A. Published in Foreign Journals of International Repute

1. Abdul Muhaimin Memon, Muslich Hartadi Sutanto, Nur Izzi Md Yusoff, **Rizwan Ali Memon**, Muhammad Imran Khan, Abdunaser Mohammad Al-Sabaei, “Rheological modeling and microstructural evaluation of oily sludge modified bitumen”, Case Studies in Construction Materials, Volume 18, July 2023. <https://doi.org/10.1016/j.cscm.2023.e02039> **(I.F 4.934)**
2. Abdul Muhaimin Memon, Muslich Hartadi Sutanto, Madzlan Napiah, Nur Izzi Md Yusoff, **Rizwan Ali Memon**, Abdunaser Mohammad Al-Sabaei, Mujahid Ali, “Physicochemical, rheological and morphological properties of bitumen incorporating petroleum sludge”, Construction and Building Materials, Volume 297, August 2021. <https://doi.org/10.1016/j.conbuildmat.2021.123738> **(I.F 6.141)**

3. Mujahid Ali, Shah Room, Muhammad Imran Khan, Faisal Masood, **Rizwan Ali Memon**, Razaullah Khan, Abdul Muhaimin, “Assessment of local earthen bricks in perspective of physical and mechanical properties using Geographical Information System in Peshawar, Pakistan”, Structures, Volume 28, November 2020, pp. 2549-2561. **(I.F 1.839)**
4. Sajjad Ali Mangi, Zubair Ahmed Memon, Shabir Hussain Khuharo, **Rizwan Ali Memon**, Arshad Hussain Memon “ Potentiality of Industrial Waste as Supplementary Cementitious Material in Concrete Production”, International Review of Civil Engineering(I.R.E.C.E.), Vol 11, No.5, September 2020, pp 214-221
5. Aneel Kumar, Faisal Iqbal, **Rizwan Ali Memon** and Agha Faisal Habib “Tensile and Flexural Strength of Cement Silica Fume Concrete”, International Journal of Civil Engineering & Technology (IJCIET), Volume 9, Issue 7, July 2018, pp. 390–402,
6. **R. A. Memon**, G. B. Khaskheli, and M. A. Dahani “ Estimation of Operating Speed on Two Lane Two way Roads along N-65 (Sibi – Quetta)”, International Journal of Civil Engineering, IUST, Iran, Vol. 10, No. 1, March 2012, 25 – 31 **(I.F 1.449)**
7. **R. A. Memon**, G. B. Khaskheli, and A. S. Qureshi “Operating Speed Models for Two Lane Rural Roads in Pakistan”, Canadian Journal of Civil Engineering, Vol. 35(5), May 2008, 443 – 453 **(I.F 0.985)**

A. Published in National Journals of International Repute

8. Abdul Hafeez Memon, Naeem Aziz Memon, **Rizwan Ali Memon**, Ammar Noor Memon, Gulzar Hussain Jatoi, Abdul Qudoos Malano “ Effect of Waste Tyre Rubber as Filler on the Mechanical Properties of Hot Mix Asphalt”, Engineering Science and Technology Research Journal, Volume 2, No.3, September 2017
9. **R. A. Memon**, A. Sami. Qureshi , Nafees A Memon, “Deceleration and Acceleration Behavior of Drivers on Two-Lane Rural Roads”, Mehran University Research Journal of Engineering & Technology, Volume 29. No. 1, January 2010.
10. **R. A. Memon**, Arshad A. Memon , Nafees A Memon, “Development of Speed Profile Model for Two-Lane Rural Roads in Pakistan”, Mehran University Research Journal of Engineering & Technology, Volume 28. No. 4, October 2009.
11. **R. A. Memon**, G.B. Khaskheli, and Fareed A. Memon “Development of Model for Predicting Operating Speed on Tangents (Kotri-Thatta Section)”, Mehran University Research Journal of Engineering & Technology, Volume 28. No. 3, July 2009.
12. **R. A. Memon**, A. A. Memon, and G. B. Khaskheli “Estimation of Saturation Flow at Signal Controlled Junctions at Karachi”, (Case Study), Mehran University Research Journal of Engineering & Technology, Volume 22, No. 1, January 2003.
13. F. A. Memon, N. A. Memon, and **R. A. Memon** “Study of Compressive Strength of Concrete with Coal Power Plant Fly Ash as replacement of Cement and Fine Aggregate”, Mehran University Research Journal of Engineering & Technology, Volume 29. No. 4, October, 2010.
14. A. A. Memon, N. A. Memon, and **R. A. Memon** “Behavior of Asphalt Concrete Mix Using Aggregate of Different Quarry Sites in the Vicinity of Hyderabad” Mehran

University Research Journal of Engineering & Technology, Volume 28. No. 4, October 2009.

15. A. A. Memon, N. A. Memon, and **R. A. Memon** “Study of Different Available Aggregates in the Vicinity of Hyderabad Used for Asphalt Concrete Road Construction”, Mehran University Research Journal of Engineering & Technology, Volume 28. No. 3, July 2009.
16. F. A. Memon, N. A. Memon, and **R. A. Memon** “Experimental Study of Fly Ash of Lakhra Coal Power Plant In RCC Beam”, Mehran University Research Journal of Engineering & Technology, Volume 28. No. 2, April 2009.
17. A. S. Qureshi, G. B. Khaskheli, and **R. A. Memon** “Operating Speed Prediction Model for Existing Two-Lane Two-Way Old Alignments”, Mehran University Research Journal of Engineering & Technology, Volume 24, No. 4, October 2005.
18. A. A. Memon, A. A. Memon, and **R. A. Memon** “Development of Signalized Intersection Delay Model”, Mehran University Research Journal of Engineering & Technology, Volume 20, No.3, July 2001.
19. A. A. Memon, **R. A. Memon**, and A. A. Baloch “Effects of Bitumen Content on Asphalt Mix Design”, Mehran University Research Journal of Engineering & Technology, Volume 18, No. 3, July 1999
20. M. N. Oad, M. S. Memon, and **R. A. Memon** “Study of Span-Depth Ratio of Reinforced Concrete Solid One Way Simply Supported Slab”, Mehran University Research Journal of Engineering & Technology, Volume 15, No. 4, October 1996.

B. Presented and Published in the proceedings of International Conference Held Abroad

21. M. R. Mehdi, M. Akhalaque Ahmed, and **R. A. Memon** “Comparison of Waste Boulder Slag With Conventional Coarse Aggregates Used as Pavement Material”, Proceedings First International Conference on Concrete & Development C&DI, April 30-May 2, 2001, Tehran, I.R. Iran.

WORKSHOP / CONFERENCE ATTENDED

1. Seminar on “Safer Roads – Safe Pakistan”, 10th May, 2018, by NTRC at SCEF, NUST, Islamabad.
2. International Conference on Sustainable Development in Civil Engineering (ICSDC 2017)”, 23rd -25th November, 2017, MUET, Jamshoro
3. International Seminar and Workshop on “Design of Tall Buildings; Trends and Advancements For Structural Performance”, 22nd November 2017, MUET, Jamshroo.
4. International Workshop on “Highway Engineering”, 16th -18th December, 2006, National Highway Authority, Islamabad.

5. “Fourth International Civil Engineering Congress”, 25th – 26th November, 2006, Institute of Engineers Pakistan(IEP), Karachi, Pakistan
6. “First International Road Transport Conference”, 23rd -24th January, 2001, Institute of Engineers Pakistan(IEP), Lahore, Pakistan
7. Workshop on “Pavement Design Procedures for Pakistan”, 8th June, 1999, National Highway Authority (NHA), Islamabad, Pakistan

SHORT COURSES ATTENDED

1. Short Course on “Transportation Engineering”, June 18th – June 23rd, 2001, National University of Science and Technology, Rawalpindi, Islamabad, Pakistan.
2. Short Course on “Design of Highways Using Road Calc”, June 12th – June 17th, 2006, NED University of Engineering & Technology, Karachi.