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Professor / Dean
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EXECUTIVE SUMMARY

I have been working in Mehran University of Engineering & Technology (MUET), Pakistan, since 1991. In addition to my expeditions of academic positions, I have remained engaged in various administrative positions. Now, I am working as a Professor in the Department of Civil Engineering and Dean Faculty of Architecture and Civil Engineering. Prior to this, I have remained Chairman Department of Civil Engineering, Director Human Resources, Director Admissions of the University. I have been acting as a member of Senate, Syndicate, Academic Council and other statutory bodies. Being remained Director HR and Director Admissions, I have strong experience to deal with Statutory Bodies' Meetings, and to deal the admissions at the University.

I have to be the best in my academic and management experience and to add value to the present education system. My dedication, management, and academic expertise at the Mehran University of Engineering & Technology can be utilized in this direction for being one of the top performers of the organization.

I did my Bachelor's in Civil Engineering and Master's in Traffic Engineering from Mehran University of Engineering & Technology, Jamshoro. Then after I was awarded Indigenous PhD scholarship (1st Batch) by HEC Pakistan for my PhD in Civil Engineering (Highway Engineering) from Mehran University.

My research interests include Traffic Engineering, Highway Materials, Pavement Design, Highway Engineering, Higher Education and Leadership in education.

The key potencies and proficiencies which I possess for success include:

- ✓ Strive for continued excellence.
- ✓ Ability to work smoothly and effectively with others in the team and to establish constructive ideas and solutions.

- ✓ Proactive approach for the smooth organization of work processes; ability to work independently with a strong sense of initiative, discipline, and self-orientation.
- ✓ Experience in coordinating and working with multidisciplinary teams.
- ✓ Ability to present and discuss ideas effectively; ability to listen to others and incorporate their ideas.

Recently I attended Professional Development Program for Future Leaders (Deans) of Universities in Sindh (Phase-II) 5-7 November 2024 at NIPA, Karachi, with a particular focus on Procurement Management, Budgeting and Accounting, Handling of audit paras, Leadership and team building and Statutory bodies of Public Universities in Sindh.

At the end I would describe myself as an academic leader with wide experience in varied fields such as teaching, research, university management, project supervision, policy framing, planning and implementation of programs and strategies etc.

QUALIFICATION

- 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)

ACADEMIC EXPERIENCE

- 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

- ✓ Ensure the due observance of the provisions of the Act and the Statutes, the Regulations and the Rules
- ✓ Attend the meetings of the all the Statuary bodies of the University and also preside the Board of Studies and Board of Faculty meetings.
- ✓ Supervise academic performance of the Institute, Departments and Centers in terms of coverage of courses of study.
- ✓ Provided strategic leadership to the faculty, promoting academic excellence, innovation, and collaboration.
- ✓ Supervised and mentored faculty members, fostering a culture of inclusivity, diversity, and respect.
- ✓ Oversaw curriculum development, review, and revision, ensuring alignment with university and accreditation standards.
- ✓ On behalf of Vice Chancellor monitor and sign the undergraduate examination results.
- ✓ Being the Convener of academic counselors, addresses and resolve the academic issues of undergraduate students from their admission to graduation.
- ✓ Being the member of the Advanced Studies and Research Board (ASRB) involved in making and approving the policies, rules and regulation regarding post graduate studies. Taking decision in the matters of postgraduate students.

➤ Chairman, Department of Civil Engineering, August 2020 to April 2023

- ✓ Provided strategic leadership to the department, promoting academic excellence, innovation, and collaboration.
- ✓ Oversaw curriculum development, review, and revision, ensuring alignment with accreditation standards and industry needs.
- ✓ Supervised and mentored faculty members, fostering a culture of inclusivity, diversity, and respect.
- ✓ Managed departmental resources, including budget, personnel, and infrastructure.
- ✓ Focused on Skill development of the students by providing state-of-the-art Laboratories.
- ✓ Coordinated accreditation and assessment efforts, ensuring compliance with PEC and university standards.
- ✓ Get established the student chapter of American Society of Civil Engineers (ASCE) in the department of Civil Engineering.

- ✓ During my tenure as Chairman, hold an international conference, arranged different workshops/ Seminars / trainings for faculty as well as students.
- ✓ Arranged training/workshops for skill development of students by outsourcing the software experts.

➤ **Director Human Resources, October 2015 to January 2020**

- ✓ Developed automation system for hiring the faculty and staff from job application to working paper for selection board.
- ✓ Developed a swift procedure for getting suitability of candidates by foreign and local experts for the positions of Professor and Associate Professor.
- ✓ Initiate to issue tentative calendar of meetings for the year with the approval of competent authority where in the statutory body meetings of Senate, Syndicate and Academic Council were scheduled as per requirement of the Act.
- ✓ Preparation of working paper and minutes for all the statutory bodies meetings conducted as per the approved meeting calendar.
- ✓ Efforts made to present to the Vice Chancellor the updated MUET CODE 2020, including Act, Statutes, and rules and regulations revised from time to time.

➤ **Director Admissions, June 2013 to February 2015**

- ✓ Developed online system for applying to the undergraduate admissions and allocation of discipline on spot during the interviews for admissions.
- ✓ Minimize the paperwork and started one window service to the candidates/students of the university in admission office.
- ✓ Initiate to start of the new session from Fall of undergraduate classes at par with international and the universities of other provinces of the country.

In addition to the above administrative positions, I was also assigned the below responsibilities by the competent authority from time to time to work for the betterment of the employees, students and for the University as a whole.

- Convener, Medical Monitoring & Scrutiny Committee (MM&SC), 31 October, 2023 to date
- Member Syndicate, October 12, 2023 to date
- Member Admission Committee from August 2010 to May 2022 and then Chairman Admission Committee, from June 14, 2023 to date

- Member University Discipline Committee, from August 2015 to July 2019 then Chairman University Discipline Committee, from August 2019 to date
- 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 TRAININGS

- Professional Development Program for Future Leaders (Deans) of Universities in Sindh (Phase-II) 5-7 November 2024 at NIPA, Karachi

PROFESSIONAL ASSOCIATION

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

SUPERVISION / GUIDANCE IN THE RESEARCH PROJECTS

(i) Supervisor in Postgraduate Thesis/Project

- PhD Thesis titled “Developing Performance Mechanism of Semi-Rigid Mix Using Conventional and Recycled Materials” by Syed Faraz Jafri.
- 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
- M.E Thesis titled “Evaluation of Safety of Flexible & Rigid Pavement (A case study of N-5 Roadway, Ranipur to Khairpur Section)” by Zarq Imdad
- M.E Thesis titled “ Investigating the effect of Rice Husk Ash on the Mechanical Properties of Asphalt mixture” by Haseeb Aijaz.

(ii) 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)

RESEARCH PUBLICATIONS

A. Published in Foreign Journals of International Repute

1. Abdul Muhaimin Memon, Muslich Hartadi Sutanto, Zubair Ahmed Memon, Shabir Hussain Khahro, **Rizwan Ali Memon** “Valorization of petroleum sludge as rejuvenator for recycled asphalt binder and mixture”, Case Studies in Construction Materials, Volume 20, July 2024. <https://doi.org/10.1016/j.cscm.2024.e03318> (I.F 6.2)
2. Muhammad Fahad Ali, **Rizwan Ali Memon**, Ali Raza Lashahri, Muhammad Hamza Siddiqui & Aisha Ahmed “Synergetic Effects of Waste Engine Oil and Crumb Tyre Rubber on Bitumen Modification” Jurnal Kejuruteraan, Volume 35(6), November 2023 1297-1309, [https://doi.org/10.17576/jkukm-2023-35\(6\)-04](https://doi.org/10.17576/jkukm-2023-35(6)-04) (I.F 0.6)
3. Abdul Muhaimin Memon, Muslich Hartadi Sutanto, Nur Izzi Md Yusoff, **Rizwan Ali Memon**, Muhammad Imran Khan, Abdalnaser 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)
4. Abdul Muhaimin Memon, Muslich Hartadi Sutanto, Madzlan Napiah, Nur Izzi Md Yusoff, **Rizwan Ali Memon**, Abdalnaser 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)
5. 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)
6. 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

7. 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,
8. **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**)
9. **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**)

B. Published in National Journals of International Repute

10. Syed Faraz Jafri, Naeem Aziz Memon, **Rizwan Ali Memon**, Khawaja Sheeraz, Kamran Khan “ Parametric characteristics of semi-rigid asphalt skeleton using recycled materials” Mehran University Research Journal of Engineering & Technology, Volume 42. No. 4, October 2023, <https://doi.org/10.22581/muet1982.2304.2890>
11. Abdul Hafeez Memon, Naeem Aziz Memon, **Rizwan Ali Memon**, Ammar Noor Memon, Gulzar Hussain Jatoti, 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
12. **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.
13. **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.
14. **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.

15. **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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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
23. 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.

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

24. 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, Jamshoro.
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.