

PERSONAL INFORMATION

Rabinder Kumar

📍 Office No. F14, Department of Civil Engineering Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan.

☎ +92 333 2716257

✉ rk.ladhani@live.com; rabinder.kumar@faculty.muet.edu.pk

🌐 https://www.researchgate.net/profile/Rabinder_Kumar

🔍 <https://scholar.google.com/citations?user=fINyEEAAAAAJ&hl=en&oi=ao>

📺 <https://www.youtube.com/channel/UCXhx-dB--c8Sv99tLJS4Xg>

PERSONAL STATEMENT

I am a professionally experienced civil engineer having more than eight years of field and research experience. At present, I am working as a Lecturer in the Department of Civil Engineering, Mehran University of Engineering & Technology, Jamshoro. My research interest includes the following domains: sustainable cementing materials, cementitious composites, composite structures, fiber reinforced concrete, 3D printing, alkali-activated materials, structural behavior under fire, blast & impact loadings, structural behavior of geopolymer concrete, the durability of concrete, and nano-engineered concrete. For that, I am looking for a doctoral position in the aforementioned domains. With exceptional communication and interpersonal skills, self-confidence, innovative approach and quick adaptability to changing processes and trends have been my biggest assets. I also have experience in learning and excelling at new technologies as needed.

WORK EXPERIENCE

26/12/2019–Present

Lecturer

Mehran University of Engineering and Technology, Jamshoro (Pakistan)

Academic Responsibilities

Teaching following subjects to undergraduate and postgraduate students

- Strength of Materials I and II
- Structural Analysis
- Design of Tall Buildings
- Advanced Reinforced Concrete Design
- Engineering Drawing

Perform research activities, i.e., writing research papers and research grants

26/12/2017–25/12/2019

Lecturer

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi (Pakistan)

Academic Responsibilities

Teaching following subjects to undergraduate students

- Engineering Mechanics
- Basic Surveying
- Mechanics of Solids

Perform research activities, i.e. writing research papers and research grants

Administrative Responsibilities

Faculty Adviser Department of Civil Engineering
Member GIK Institute's Annual Report Committee
Co-Secretary 2nd Pak-Turk International Conference
Coordinator GIK Institute's Bi-Annual Newsletter

08/11/2015–08/10/2017

Graduate Assistant

Universiti Teknologi Petronas, Seri Iskandar (Malaysia)

Worked as Graduate Assistant (GA) at Department of Civil and Environmental Engineering, Universiti Teknologi PETRONAS, Malaysia, The activities performed are as under:
-Tutor for following undergraduate courses
VDB 2043-Theory of Structures
VDB 2043-Theory of Structures (Laboratory Demonstration)
VDB 2063-Structural Analysis
VDB 3013-Construction and Project management
-Provided assistance and guidance to final year students for their final year projects.
-Evaluation of Assignments, Tests, Quizzes

02/06/2014–20/07/2015

Design Engineer

Department of Earthquake Engineering, NED University of Engineering and Technology, Karachi (Pakistan)

Conducted Seismic vulnerability assessment of existing school buildings all over the Pakistan of various structural systems, which includes "Frame, Load Bearing and Confined Masonry structures

01/01/2013–25/05/2014

Junior Civil Engineer

Ashok and Associates, Hyderabad (Pakistan)

Worked as a site engineer on the construction of the public building (National Bank of Pakistan) located in Sanghar, Sindh.

-Involved in all phases of construction of the project.
-Worked on studying structural drawings and execution on-site supervision of concrete works

EDUCATION AND TRAINING

19/01/2009–03/05/2013

Bachelors of Engineering in Civil Engineering

Mehran University of Engineering and Technology, Jamshoro (Pakistan)

08/10/2015–23/11/2017

MSc in Civil Engineering

Universiti Teknologi Petronas, Seri Iskandar (Malaysia)

	ABAQUS	Microsoft Office
	CSI ETABS	CSI SAP2000
SOFTWARE SKILLS	CSI SAFE	AutoCAD 2D/3D
	Design Expert	
	STAAD Foundation	

ADDITIONAL INFORMATION

Publications

1. **Kumar, R.**, Shafiq, N., Kumar, A., & Jhatial, A. A. (2021). Investigating embodied carbon, mechanical properties, and durability of high-performance concrete using ternary and quaternary blends of metakaolin, nano-silica, and fly ash. *Environmental Science and Pollution Research*, 1-15. **IF.4.223** [\[Link\]](#)
2. Kumar, A., **Kumar, R.**, Almani, S. A., & Jhatial, A. A. (2021). Effect of shrinkage-controlled polymer-modified binders (SC-PMB) on the bond strength of repaired structural concrete. *Innovative Infrastructure Solutions*, 6(4), 1-13. **SCI Indexed.** [\[Link\]](#)
3. Kumar, A., Bheel, N., Ahmed, I., Rizvi, S. H., **Kumar, R.**, & Jhatial, A. A. (2021). Effect of silica fume and fly ash as cementitious material on hardened properties and embodied carbon of roller compacted concrete. *Environmental Science and Pollution Research*, 1-13. **IF.4.223** [\[Link\]](#)
4. Amin, M. N., Ashraf, M., **Kumar, R.**, Khan, K., Saqib, D., Ali, S. S., & Khan, S. (2020). Role of Sugarcane Bagasse Ash in Developing Sustainable Engineered Cementitious Composites. *Frontiers in Materials*, 7, 65. **IF.2.705** [\[Link\]](#)
5. Shafiq, N.; **Kumar, R.**; Zahid, M.; Tufail, R.F. (2019). Effects of Modified Metakaolin Using Nano-Silica on the Mechanical Properties and Durability of Concrete. In *Materials*, 12, 2291. **IF. 3.075** [\[Link\]](#)
6. Ahad, M., Ashraf, M., **Kumar, R.**, & Ullah, M. (2019). Thermal, Physico-Chemical, and Mechanical

Behaviour of Mass Concrete with Hybrid Blends of Bentonite and Fly Ash. In Materials, 12(1), 60. IF. 3.075 [\[Link\]](#)

7. **Kumar, R.**, Yaseen, M., Shafiq, N., & Jalal, A. (2017). Influence of Metakaolin, Fly Ash and Nano Silica on Mechanical and Durability Properties of Concrete. In Key Engineering Materials (Vol. 744, pp. 8-14). Trans Tech Publications. **(Scopus)** [\[Link\]](#)
8. Jalal, A., Shafiq, N., Nikbakht, E., **Kumar, R.** and Zahid, M., (2017). Mechanical Properties of Hybrid Basalt-Polyvinyl Alcohol (PVA) Fiber Reinforced Concrete. In Key Engineering Materials (Vol. 744, pp. 3-7). Trans Tech Publications. **(Scopus)**. [\[Link\]](#)
9. **Kumar, R.**, Shafiq,N., Ali,TH., Jalal,A., & Zahid, M. (2017). Statistical Assessment of Compressive Strength of High Strength Concrete Mixtures with Hybrid Blends of Metakaolin and Fly ash. In International Conference on Sustainable Development in Civil Engineering, MUET, Pakistan. [\[Link\]](#)
10. W.H, Qazi., M.B, Memon., **Kumar, R.**, S,Raza., Chalgr, S., B.S. Osman., (2017). An Attempt to Correlate Laboratory Resistivity Against Various Soil Parameters Using Predicted Artificial Neural Networks And Basic Regression Values. In International Conference on Sustainable Development in Civil Engineering, MUET, Pakistan. [\[Link\]](#)

ADDITIONAL CERTIFICATE AND PARTICIPATION

- Attended "Web of sciences training workshop" on October 15th, 2018 at Air University Islamabad.
- Attended one-day international seminar on "Resistance of cement-based materials under hydrocarbon fire" on September 19, 2018, at COMSATS University Islamabad, Wah Campus.
- Participated in International Symposium on Material Sciences and Engineering in Kuala Lumpur, Malaysia during January 13-15, 2017.
- Attended Outcome-Based Education (OBE) Talk on July 28th, 2016 at Universiti Teknologi PETRONAS (UTP), Malaysia.
- Member of presentation committee for 5th Biannual Postgraduate Conference (BAPC) 2016 DURING May 9-11, 2016 at UTP, Malaysia.
- Attended the "Techni-UTP" industry Lecture Series at Universiti Teknologi PETRONAS on June 15, 2016.
- Participated in 2014 International Essay Contest for Young People organized by the Goi Peace Foundation and UNESCO.

HONORS AND AWARDS

- Masters scholarship, covering full tuition fees along with a monthly stipend of (1300 RM) funded by Universiti Teknologi PETRONAS (UTP), Malaysia for two years.
- Merit scholarship holder at Mehran University of Engineering and Technology, Jamshoro for three consecutive years.

REVIEWER

Case studies in construction materials" (ISSN: 2214-5095), Elsevier.

MEMBERSHIPS

- Member of Pakistan Engineering Council, the Membership ID number is CIVIL/34169
- Student Member of ASTM, Membership ID 1699136
- Student Member of American Society of Civil Engineers, Membership ID 9601821

REFERENCES

Prof. Dr. Aneel Kumar
Department of Civil Engineering, Mehran
University of Engineering & Technology,
Jamshoro.
aneel.kumar@faculty.muett.edu.pk

Prof. Dr. M. Ashraf Tanoli
Department of Civil Engineering,
GIK Institute Topi
matanoli@giki.edu.pk

Prof. Dr. Nasir Shafiq
Department of Civil & Environmental
Engineering, Universiti Teknologi
PETRONAS, Malaysia.
nasirshafiq@utp.edu.my

