

## Dr. SAJJAD ALI

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### **Research Publications:**

- **Thesis Publication – PhD:**
  - PhD thesis entitled “Impact Assessment of Roadway Traffic on Urban Air Quality” is continued under “Department of Urban and Infrastructure Engineering” in “NED University of Engineering and Technology, Karachi”.
- **Thesis Publication – Master of Engineering:**
  - Master of Engineering – “Civil Engineering specialization in Transportation Engineering” with the thesis titled “Statistical Model for Effect of Polymer Modified Asphalt on Rutting Potential of Asphalt Concrete Road”.
- **Research Publication – Journal:**
  - Rafi, M. M., Qadir, A., **Ali, S.**, & Siddiqui, S. H. (2014). Performance of hot mix asphalt mixtures made of recycled aggregates. *Journal of Testing and Evaluation*, 42(2), 357-367.  
**Impact factor 0.38**
  - Qadir, A., Gazder, U., & **Ali, S.** (2018). Comparison of SBS and PP fibre asphalt modifications for rutting potential and life cycle costs of flexible pavements. *Road Materials and Pavement Design*, 19(2), 484-493.  
**Impact factor 1.98**
  - **Ali, S.**, Mehdi, R., & Noman, S. M. (2019). Comparison of Carbon Monoxide for Metropolitan City at Traffic Stressed Sites – A Case Study of Karachi 2002 – 2018. *Journal of Mechanics of Continua and Mathematical Sciences.*, 14(6), 190-204  
**HEC X-Category**
  - Memon, R. M., Khiani, R. K., **Ali, S.**, Mustafa, T., & Pasha, Y. N. (2020). Traffic Congestion Issues, Perceptions, Experience and Satisfaction of Car Drivers/Owners on Urban Roads. *Mehran University Research Journal of Engineering and Technology*, 39(3), 489-505.  
**HEC X-Category**
  - Khan, S., Ahmed, A., **Ali, S.**, et all (2020). Use of Scrapped Rubber Tires for Sustainable Construction of Manhole Covers. *Journal of renewable Material*.  
**Impact Factor 0.32**

- **Ali, S.,** Siddiqui, M. O. R., Ahmed, A., Iqbal, K., Noorani, M. U., Sun, D., & Iqbal, W. (2021). Performance evaluation of hot mix asphalt using textile waste. *Industria Textilă*.  
**Impact Factor 0.26**
- **Ali, S.,** Siddiqui, M. O. R., Noman, S. M., Beg, T., & Sun, D. (2022). Class C fly ash as a substitute for mineral fillers in asphalt mixtures. *Polimery*, 67(9), 438-449.
- **Impact Factor 0.35**

- **Research Publication - Conference Proceedings:**

- **“Ali, S.,** Economic Framework for Public Mass Migration Towards Gwadar: A Prospect Port-City” in fifth International Conference on Infrastructure in Developing Countries (IEDC-2017), Karachi, Pakistan - 2017.
- Mehmood, S., **Ali, S.,** & Akram, U., “Study of Size Consequence on Shear Strength of Steel Fiber Reinforced Concrete (SFRC) Beams” in fifth International Conference on Infrastructure in Developing Countries (IEDC-2017), Karachi, Pakistan - 2017.
- Zaidi, M., **Ali, S,** & Ahmed, M, “Development of Aggregate Source Information” in “Pakistan Urban Forum, Lahore, Pakistan presented on Dec 2016.
- Qadir, A., Rafi, M. M., Siddiqui, S. H. & **Ali, S.,** “Use of Recycled Aggregates in Hot Mix Asphalt Mixture.” in Third International Conference on Construction in Developing Countries (ICCIDC-III)-Advancing Civil, Architectural and Construction Engineering & Management, Bangkok, Thailand - 2012.

- **Professional Experiences - Jan 2011 to till date**

- **Assistant Professor- March 2018 - till date**

Currently I am working as Assistant Professor in Department of Civil Engineering. Before that, I worked as Lecturer and Laboratory Engineer in Department of Urban & Infrastructure Engineering – 17th Jan, 2011 to 5th May 2016 and 5th May 2016 to 13th March, 2018 respectively. I have taught many courses, designing of University manual and supervised many other construction Projects within and outside the university premises. I also supervised some GIS based some projects. Commercialization of many laboratories were also took place under my job credentials.

- **Teaching Experience - Undergraduate:**

Construction Materials, Transportation Engineering-I, Introduction to Transportation Planning & Operations, Engineering Drawing, Urban Mass transportation & Currently Teaching Transportation engineering, Soil Mech. Traffic Engineering and Management. I have also design the work book for steel structures for B.E Urban Engineering.

- **Laboratory Engineer/Site Engineer/Material Consultant:**

Worked as “Laboratory Engineer” in “NED University of Engineering & Technology”; with a job responsibility of Management, Commercialization of Laboratories and also having a command on all types of construction materials testing. Worked as Site Engineer in many roads within NED University. Materials testing and site supervision along with the

management of men and materials. I also work as Highway Quality inspector on the highway connecting Mubarak Village, Paradise and Hub River Road.

- **Worked & Organized Seminars & Funded Projects:**
  - Helped the project member to complete successfully one research funded project sponsored by FWO in due course of time and is currently working for timely completion of another research project for PAK-HY oil limited.
  - Collected field and laboratory data for Construction Material Research Group (CMRG) to develop and Launch Aggregate Information system(AIS) map, the first of its kind in the region.
  - UN-HABITAT project “Preparation of Disaster Risk Management Plan for Gadap Town”. Traffic Congestion Quantification and Estimation of Congestion Economic Cost.
- **Academic Qualifications:**
  - **PhD – Department of Urban and Infrastructure Engineering - 2022**  
NED University of Engineering and Technology, Karachi
  - **Master of Engineering – Civil Engineering – Transportation Engineering - 2013**  
NED University of Engineering and Technology, Karachi  
Independent study Project - “Statistical model for effect of polymer modified asphalt on rutting potential of asphalt concrete road”.
  - **Bachelor of Engineering – Civil Engineering - 2010**  
NED University of Engineering and Technology, Karachi  
Final Year Project - “To Study the Properties of Recycled Concrete Aggregates for Flexible Pavement”.
- **Certifications and Trainings:**
  - **Occupational Health and Safety** - 18-hour training on “Managing Safely” by certified trainer of “Institute of Occupational health and safety (IOSH) – will soon certified by IOSH UK – Nov 2016 o Two days training on occupational health and safety.
  - **Communication, Personal Grooming and Business Management** – Three months course to enhance the communication capability and organizational behavior. The course was conducted by Ensign Commuque under kind supervision of “NEVTAC (Govt. of Pakistan)” entitled “Effective communication and Personal Grooming”- 2008
  - Course entitled “Business Management” Duration of the course is “two months” from “The Institute Publication Internationals”, Karachi.
  - Having a training session of determining rutting behavior of asphalt pavement through rutting depth machine of “cooper technology” & now having full command on that machine. o Petrographic Study of Rock-Specialty Sedimentary Rock -2012, ten days’ course, Geological Survey of Pakistan-Karachi.
  - Training of Arc GIS -2012 Three Days Course, NED University of Engineering & Technology.

- **Community Services:**

Al-Momin Welfare” – 2011- till now: Intend to provide student loans and coffins to needy and poor people. We also manage to give medicine in deserving areas nearby my house.

- **Languages Skills:**

Proficient in English (IELTS 6.5) & Urdu. I have a little knowledge of Arabic, Mandarin and Hindi.

- **Co-Curricular Responsibility:**

Faculty In-charge of NED University Debating Society (NDS - the oldest student society of the university) & Literature and Publication Society (LPS).

**Personal Data:**

Father’s Name : Naseem Arfat  
Date of Birth : 21<sup>st</sup> -April-1989