

# Curriculum vitae

**Prof. Dr. Mir Shabbar Ali** (mshabbar@neduet.edu.pk)

**Professor (Transportation Engineering)**

Dean Faculty of Civil and Petroleum Engineering

**NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY, KARACHI, PAKISTAN**



## Qualification

<b>Ph.D. in Civil Engineering (2001)</b>	University of Birmingham, UK.
<b>Master of Science (M.S) in Civil Engineering (1987)</b>	University of Oklahoma, Norman, USA.
<b>Bachelor of Engineering (B.E) Civil Engineering (1983)</b>	NED Uni. of Engg. And Technology
<b>Life Member Institution of Engineers Pakistan (Since 1996)</b>	

## PhD Research

**Research Title:** An Accessibility-activity based approach to model rural travel demand in developing countries

**Research Area:** Transportation planning; Travel demand modelling

**Research Applications:** Transportation project appraisal; Integrated accessibility planning; Valuation of time/social benefits; Poverty Alleviation; Development policies

## Research Supervisions

- Travel Decision Economic Model *Masters thesis (2002-2004)*
- Pavement Performance Prediction Modelling using Aggregate Characterization *Masters Research (2006-2008)*
- Traffic Flow Simulation Modelling for Major Arterials of Karachi *Masters Research (2007-2009)*
- Durability analysis of Local Aggregates *Masters Research (2010)*
- Developing A Black Spot Identification Criteria Using GIS *Masters Research (2015)*

## PIs for Funded projects

i) HEC-funded NURP project Predicting Traffic Congestion in Karachi Metropolitan Through Artificial Intelligence Technique	Apr'15-May'17	[Pak Rs.2.57m]
ii) International Funded Pak-USAID ITS-Research	Feb'07-June'12	[Pak Rs.12m]
iii) Toyota Indus Motors funded Toyota Traffic Congestion Research	Apr'12-Nov'12	[Pak Rs.2.5m]
iv) NED Uni. funded Traffic Simulation Modeling Research	Aug'07-Aug'09	[Pak Rs.1.0m]
v) NED Uni. funded Highway aggregate Research	Aug'06-Aug'08	[Pak Rs.4.5m]
vi) NED Uni. Funded Travel Demand Modeling Research	Jul '02-Jul'04	[Pak Rs.1.0m]

## Industry Linkage and Outreach

**Member Governor of Sindh Committee on Road Safety**  
**Member Commissioner Karachi Committee on Road Safety and Traffic Laws**  
**Member Commissioner Karachi Committee on Pedestrianization of Saddar Area, Karachi**  
**Member DCO-Karachi committee on road safety and advisor on black spot improvements**  
**Expert Member for review of Punjab Geometric Design Manual-Urban Unit Govt. of Punjab**  
**Transportation Expert on committee formulated by EPA to review design of M-9 project**  
**In House consultant for NED University Campus Roads improvement projects [Rs.25m]**  
**Consultancy Assignment and Team Leader**  
**Schon Circle Interchange Full Cloverleaf design for as a Innovative Practical Solution.**

## Special honor and Service

**Organized three Symposia/Conferences :** International Symposium on Infrastructural Engineering in Developing Countries (IEDC-2001, 2004, 2010), NED University  
**Member/Secretary of HEC National Curriculum Revision Committee** (Civil Engineering) 2002-2004 and 2006-2008  
**Member Editorial Board:** Mehran University Journal of Research (Since Aug 2007)  
**Elected Central Council Member and Convener CPD Committee;** The Institution of Engineers, Pakistan (IEP) 2013-16  
**Elected Local Council Member;** The Institution of Engineers, Pakistan (IEP) 2016-18  
**Invited Speaker for Road Safety Engineering**

## Publications

Thirty One (32) Refereed papers ; Co-Authored one book

## Personal Information

Father's Name: Dr. Mir Mohammad Ali; Whatsapp contact: 0092333 3272128

## Experience Profile

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**Professor (Transportation Engineering)** – Since Apr 2008

Department of Urban & Infrastructure Engineering

**Professor (Transportation Engineering)** –Aug 2004-Apr2008

Department of Civil Engineering

**Associate Professor**–May 2001–Aug 2004; Department of Civil Engineering

**Assistant Professor**–Sep 1990–May 2001; Department of Civil Engineering

**Lecturer**–May 1988–Sep 1990; Department of Civil Engineering

**Highway Engineer**—1987-1988; AA Associates (Pvt.) Ltd., Karachi Pakistan.

**Junior Engineer**—1983-1984; Pakistan Environmental Planning and Architectural Consultants (PEPAK), Pakistan.

## Administrative Assignments

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**Dean Faculty of Civil and Petroleum Engineering** (Since Mar 2017)

**(Founding) Chairman** Department of Urban and Infrastructure Engineering (Apr 2008–Mar2017)

**Acting Chairman/Co-Chairman** Civil Engineering (Oct 2002; Feb–July 2005)/ July'01–Dec'02–Jan–Dec'07)

**Secretary** Advanced Studies and Research Board.....(07/2001–07/2002)

**Class Advisor:** Second Year; Third Year; Final Year.....(Various Periods)

## Teaching Assignments

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**Undergraduate level:** (Twelve Courses).....Transportation Engineering I&II; Introduction to Transportation Planning and Operations; Surveying I&II; Mechanics of Solids I&II; Theory of Structures; Engineering Mechanics; Introduction to Computing, Traffic Engineering and Management, Introduction to Computing

**Postgraduate level:** (Nine Courses).....Advanced Traffic Engineering & Management; Geometric Highway Design; Probability and Statistics; Pavement Analysis and Design; Highway Materials, Road Maintenance Management System, Intelligent Transportation Systems, Road Safety Analysis and Methodologies, Pavement Asset management, Transportation System Evaluation

## Selected Refereed Publications

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1. W. Uddin, A. Ahmed, M.S. Ali, Satellite Imagery Applications of Urban Road Inventory, Traffic Flow Attributes, and Road Capacity Assessment; International Journal of Recent Development in Engineering and Technology Website: www.ijrdet.com (ISSN 2347-6435(Online) Volume 1, Issue 3, December 2013)
2. Mir Shabbar Ali, Muhammad Adnan, Syed Muhammad Noman, Syed Fazal Abbas Baqueri, Estimation of Traffic Congestion Cost- A case study of Major Arterial in Karachi, :Procedia Engineering(online), ScienceDirect.com; www.sciencedirect.com/science/journal/18777058/77/supp/C# ; Vol77 (2014)
3. Gazdar, U., Ali, M. S., & Ali, R. (2015). Transport Issues in Karachi: Recommendations for Public Transport System. World Transport Policy and Practice,21
4. Mir Shabbar Ali, Use Of Accessibility Index For Planning Service Infrastructure, paper accepted for publication in Journal of Architecture and Planning, NED University, August 2015
5. Mir Shabbar Ali, Muhammad Adnan and Syed Fazal Abbas Baqueri, Toll Estimation as a function of Time-Dependent Link Cost, vehicle category and distance– A Case Study for Karachi, (Journal of Traffic and Logistic Engineering), 2016
6. Sumera Aziz Ali1, Sarah Saleem, Neelofar Sami, Mir Shabbar, Muhammad Ahmed, Shafquat Rozi, Robert L. Goldenberg, Margo S. Harrison, Omrana Pasha; Geographic Access to Working Family Planning Centers and Unintended Pregnancies among Married Women: A Community Based Nested Case Control Study; Open Journal of Epidemiology, 2016, 6, 95-108 Published Online February 2016 in SciRes. <http://www.scirp.org/journal/ojepi> <http://dx.doi.org/10.4236/ojepi.2016.6101>
7. Baqueri,F, Ali,M, Ahmed,M, Ahmed, N, Implications Of Bus Rapid Transit On Traffic Safety In A Developing Country, Submitted for TRB, USA 2018

## Book

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1. *Muhammad Adnan (Author), Mir Shabbar Ali (Author), (2010), Travel Decision Economic Model: In the Context of Rural Areas of Developing Countries, VDM Verlag Dr. Muller GmbH & Co., KG, Germany, ISBN: 978-3-839-28999-2*

## Chapter

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1. *Muhammad Adnan (Author), Mir Shabbar Ali (Author), An Effective Methodology for Road Accident Data Collection in Developing Countries, submitted for inclusion in Data on Science and Simulation in Transportation Research (DSSTR 2014), edited by: Davy Janssens (Hasselt University, Belgium) Ansar-Ul-Haque Yasar (Hasselt University, Belgium) and Luk Knapen (Hasselt University, Belgium)*