



KHURRAM SHAHID MINHAS

LECTURER

Personal Data

Nationality	Pakistan
Date of Birth	20-05-1990
Department	Transportation And Traffic Engineering
Official UoD Email	ksminhas@iau.edu.sa
Office Phone No.	966533636922

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Good	Good
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent
Punjabi	Excellent	Excellent	Excellent

Academic Qualifications

Date	Academic Degree	Place of Issue	Address
February, 2018	M.Sc. Transportation Engineering	Pakistan	UET, Lahore
2009-2013	B.Sc. Honors. Transportation Engineering	Pakistan	UET, Lahore
2007-2009	F.Sc. Pre Engineering	Pakistan	Crescent College, Lahore

Research Title:

Masters	An Assessment of Pedestrian Behavior and Mobility Issues in Lahore, Pakistan
Bachelors	Investigating the Effect of Binder Content on Volumetric Properties of Hot Mix Asphalt (H.M.A)
	Dean's Honors List Awarded in Bachelors Degree



Professional Record:

Job Rank	Place and Address of Work		Date
Current	Lecturer	Imam Abdulrahman Bin Faisal University, King Faisal Road, Dammam 34212	05/09/2019 To Date
Previous	Lecturer	Imperial College of Business Studies, Lahore, Pakistan	31/07/2015 22/08/2019

Scientific Achievements

Published Scientific Researches

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Khalid Almatar, KS Minhas, FM Butt	Combining road safety and traffic operations: An integrated approach to implement system-wide transportation improvements	Transportation Research Interdisciplinary Perspectives 2024.
2	AW Siddiqui, SA Raza, MA Elahi, KS Minhas, FM Butt	Temporal impacts of road safety interventions: a structural-shifts-based method for road accident mortality analysis	Accident Analysis & Prevention 2022.
3	SA Raza, AW Siddiqui, FM Butt, MA Elahi, KS Minhas	Saudi Arabian Road Accident Mortality and Traffic Safety Interventions Dataset (2010–2020)	Data in Brief 2022.
4	FM Butt, MA Dalhat, KS Minhas, A Al-mojil	Influence of Seat Belt Use Behavior and Road Traffic Crash Experience on the Use of Child Restraint Systems: A Step Further	Journal of King Saud University - Engineering Sciences 2021.
5	Farhan Muhammad Butt, Murtaza Ashiq, Shafiq Ur Rahman, Khurram Shahid Minhas, Muhammad Ajmal Khan	Bibliometric Analysis of Road Traffic Injuries Research in the Gulf Cooperation Council Region	F1000 Research 18/09/2020



6	Khurram Shahid Minhas, Zahara Batool, Bilal Zia Malik, Tahir Ali Akbar, Irum Sanaullah	Pedestrian Environment and Behavior in Lahore, Pakistan	Journal of Transport and Health 14/09/2017
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Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Saudi Aramco Chair for Traffic Safety Research	Traffic Safety Study at different Blackspot Locations in Hafar-Al-Batin Region	September, 2019
2	Saudi Aramco Chair for Traffic Safety Research	Traffic Safety Study and Analysis of the Blackspot Locations in Al-Ahsa Region	February, 2020
3	Saudi Aramco Chair for Traffic Safety Research	Assessment and Validation of Road Traffic Accidents Mortality Data in Eastern Province	March, 2020
4	Saudi Aramco Chair for Traffic Safety Research	Assessment of Seat Belt and Cell Phone Usage Compliance in Eastern Province of Saudi Arabia	January, 2021
5	In Depth Literature Review of the “Safety Corridor” Highway Segments in the World	Dr. Abdul Hameed Sulaiman Almojil, Dr. Farhan Muhammad Butt, Khurram Shahid Minhas	August, 2022
2	Study the Impact of the change in Speed Limit to 140km/hr on the Highways in Kingdom of Saudi Arabia	Dr. Abdul Hameed Sulaiman Almojil, Dr. Farhan Muhammad Butt, Khurram Shahid Minhas	August, 2022
3	Evaluation of Existing and Proposing New Park and Ride Facilities in the Kingdom of Saudi Arabia	Dr. Abdul Hameed Sulaiman Almojil, Dr. Farhan Muhammad Butt, Khurram Shahid Minhas	September, 2023
4	Assessment of Parking facilities in North Al Khobar	Dr. Abdul Hameed Sulaiman Almojil, Khurram Shahid Minhas	May, 2024



5	Investigating effect of weather conditions on driver safety in Saudi Arabia	Dr. Abdul Hameed Sulaiman Almojil, Khurram Shahid Minhas	May, 2024
6	Development of Safety performance functions and ranking of crash prone locations in Dammam Saudi Arabia	Dr. Abdul Hameed Sulaiman Almojil, Khurram Shahid Minhas, Dr. Tarek Sayed	August, 2024

Current Researches

#	Research Title	Name of Investigator(s)
1	Investigating the role of Artificial intelligence in prediction of traffic crashes in Eastern Province Saudi Arabia	Dr. Abdulhamid Almojil, Khurram Shahid Minhas, Dr. Arshad Jamal
2	Investigation of near miss events at various locations in Dammam metropolitan region using Video Analytics	Dr. Abdulhamid Almojil, Khurram Shahid Minhas, Dr. Simon Washington

Membership of Scientific and Professional Societies and Organizations

- PTV Group Karlsruhe Germany (Certified Trainer No. 274)
- Pakistan Engineering Council (Lifetime Member, Registered Engineer)
- Pakistan Engineering Congress (Member)
- Institute of Transportation Engineers (ITE)

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Pavement Engineering Materials Lab	TTENG322	12 Labs
2	Intelligent Transportation Systems Lecture	TTENG522	14 Sessions
3	Mass Transit Lecture	TTENG511	14 Sessions
4	Transportation Planning and Modeling Lab	TTENG 551	12 Labs (6 Vissim + 6 Visum)



Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Pavement Engineering Materials Lab: Students have hands-on practice on the strength and durability testing on sub-grade soils, aggregates and bitumen used in the pavement construction. Students learn the standard testing procedures as specified by ASTM and also perform the asphalt mix design themselves.

Intelligent Transportation Systems: To equip students with an in-depth knowledge of the modern real-time applications of ITS technologies and advancements such as: Advanced Transportation Management Systems ATMS, Advanced Traveler Information Systems ATIS, Advanced Vehicle Control Systems AVCS, Advanced Public Transport Systems APTS, Commercial Vehicle Operations (CVO), Emergency Management Systems EMS and Electronic Payment Systems in the modern transportation world.

Mass Transit: Introduction to Mass Transit Systems, mass transit system planning, design, and operations. They will learn about transit demand forecasting, transit capacity and quality of service analysis, Route Planning, Bus/Rail Stop design and determining transit coverage areas using GIS, transit headway, frequency and service scheduling and blocking table generation.

Transportation Planning and Modeling Lab: Introduction to microscopic simulation using Vissim, Creating signalized intersections and interchanges in Vissim, Traffic signal controller in Vissim, Evaluating results of signalized intersections in Vissim, Using data collection points, travel time counters and queue length counters in Vissim, Modeling public transport stops and lines in Vissim, Modeling parking lots in Vissim, Modeling pedestrian traffic in Vissim, Presenting Results in Vissim.

Introduction to macroscopic simulation using Visum, Creating links, nodes, connectors, zones in Visum, Creating user defined attributes in Visum, Travel demand modeling in Visum (Standard 4-step) Trip Generation, Trip Distribution, Modal Choice and Trip Assignment (Equilibrium and Incremental for Private transport and Headway based and System based for Public transport), Network checking and graphical parameters changing in Visum, working with Flow Bundles in Visum.

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Committee Membership

#	From	To	Position	Organization
1	09/2020	Till date	Member	Field and Summer Training Program (STP) Committee
2	09/2020	Till date	Advisor	Student Advisor



Personal Key Competencies and Skills:

1	PTV Vissim/Visum/Vistro
2	Trafficware Synchro Studio (Synchro, SimTraffic, 3DViewer, TripGen)
3	SIDRA Solutions
4	Highway Capacity Software (HCS)
5	AutoCAD Civil 3D
6	KENPAVE
7	EaglePoint
8	ArcGIS and qGIS
9	Microsoft Office 365 (Word, Excel, Powerpoint)
10	MATLAB, WEKA, Orange, Python, MS BI
11	MS Project

Last Update

26/01/2021