

Muhammad Jawed Iqbal

Defence Faculty
National Institute of Transportation

Email: muhammad.jawed@nit.nust.edu.pk
Contact:
LinkedIn:



About

Dr. Muhammad Jawed Iqbal is working as Defence Faculty in the National Institute of Transportation. Dr. Muhammad Jawed Iqbal has a PhD in Transportation Engineering. Dr. Muhammad Jawed Iqbal has published 37 research articles & conference papers having a citation count of 178, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Transportation Engineering	- 2009
Mehran University of Engineering & Technology , Pakistan	
MS	- 2005
Mehran University of Engineering & Technology , Pakistan	
BE	- 1995
Military College Of Engineering Risalpur , Pakistan	

Experience

Defence Faculty	2024- Present
National Institute of Transportation	
Defence Faculty	2021 - 2024
National Institute of Transportation	
Defence Faculty	2018 - 2021
Military College of Engineering	
Defence Faculty	2015 - 2018
NUST Institute of Civil Engineering.	
Defence Faculty	2010 - 2015
Military College of Engineering	
Associate Professor	2010 - 2022
NUST , H-12 Islamabad	
Lt Col	1995 - 2022
Pak Army , Pak Army	

Industry Projects

National Projects

Hydrology Study Terrain Analysis at DHA Quetta Client: DHA Quetta Amount: PKR 22,000,000.00 Status: Approved_inprocess	2022
Supervision of and Construction works of DHA - Quetta Client: DHA Quetta Amount: PKR 27,600,000.00 Status: Approved_inprocess	2022
Supervision of Implementation of Remedial Works at Custom Building IIAP Islamabad Client: CAA Amount: PKR 28,800,000.00 Status: Approved_inprocess	2022

International Projects

Research Articles

Integrating Artificial Intelligence for Sustainable Structural Health Monitoring and Wastewater Treatment in Civil and Environmental Engineering <i>Waqar Aslam Muhammad Haris Huzaif Ahmed Khan Kundi Muhammad Jawed Iqbal</i> <i>The Critical Review of Social Sciences Studies</i> , Volume 3, Number 2, 2025, Pages 1828 – 1862 Impact Factor: N/A DOI: https://doi.org/10.59075/fvft7g42	2025
AI in Education: Personalized Learning Systems and Their Impact on Student Performance and Engagement <i>Sadaf Saleem Muhammad Umar Aziz Muhammad Jawed Iqbal Shahid Abbas</i> <i>The Critical Review of Social Sciences Studies</i> , Volume 3, Number 1, Pages 2445-2459 Impact Factor: N/A DOI: https://search.crossref.org/?q=10.59075%2Fcrsss&from_ui=yes	2025
AI Driven Tutoring vs. Human Teachers Examining the on Student Teacher Relationship <i>Abdul Sattar Muhammad Jawed Iqbal Sadaf Saleem Muhammad Umar Habib</i> <i>Review of Applied Management and Social Sciences</i> , Volume 8(1), Pages 363-374 Impact Factor: N/A DOI: https://doi.org/10.47067/ramss.v8i1.466	2025
The Role of China-Pakistan Relations in the Global Tech Competition, Especially in Areas like 5G, AI, and Cybersecurity <i>Sameer Ullah Khan Inam Ullah Shah, Khansa Shah Muhammad Jawed Iqbal</i> <i>Review of Education, Administration and Law</i> , Volume 8(1), Pages 73-85 Impact Factor: N/A DOI: https://doi.org/10.47067/real.v8i1.404	2025
Macroscopic and Microscopic Evaluation of the Effect of Mellowing Time on the Mechanical Properties of Expansive Clay Stabilized with Class F Fly Ash–Based Geopolymer <i>Khushal Khan Usama Khalid Zia ur Rehman Nauman Ijaz Muhammad Jawed Iqbal</i> <i>Journal of Materials in Civil Engineering</i> , Volume: 37, Issue: 4, Pages:21 Impact Factor: 3.1 Quartile: 2 Citations: 3 DOI: DOI: 10.1061/JMCEE7.MTENG-19133	2025
Reclaimed brick masonry waste recycling in macro–micro amelioration of cemented clayey soil: an eco-friendly construction waste solution <i>Ansar Ahmad Usama Khalid Zia ur Rehman Muhammad Jawed Iqbal</i> <i>Journal of Material Cycles and Waste Management</i> , Pages:22 Impact Factor: 2.7 Quartile: 3 DOI: https://doi.org/10.1007/s10163-025-02161-3	2025
Feasibility of utilizing recycled concrete aggregate blended with waste tire rubber and drywall waste as pavement subbase material	2024

<i>Afaq Ahmed Syed Kamran Hussain Shah Numan Ahmad Umair Ali Adnan Anwar Malik Muhammad Jawed Iqbal</i> <i>Journal of Material Cycles and Waste Management</i>, Volume 26(4), Pages 2278-2293 Impact Factor: 2.700 Quartile: 3 Citations: 5 DOI: 10.1007/s10163-024-01967-x	
Numerical Analysis of Differential Settlement in Road Due to Widening Considering Different Reinforcement Techniques <i>Shaista Jabeen Abbasi Xiaolin Weng Muhammad Jawed Iqbal</i> <i>Applied Sciences</i> , Volume 14(5), Article Number 1740 Impact Factor: 2.700 Quartile: 2 Citations: 1 DOI: https://doi.org/10.3390/app14051740	2024
Evaluation of Bus Rapid Transit (BRT) Peshawar in Pakistan By Comparison With International Standards <i>Jawwad Mehmood Sameer Ud Din Fawwad Mehmood Muhammad Jawed Iqbal</i> <i>International Journal of Management Sciences and Business Research</i>, Volume 12, Issue 8, Pages 01-11 Impact Factor: N/A DOI: 10.5281/zenodo.8329267	2023
Factors responsible for urban flooding in Karachi: A case study of DHA <i>Ayesha Iftikhar Muhammad Jawed Iqbal</i> <i>International Journal of Disaster Risk Management</i>, Volume 5, No. 1, Pages 83-103 Impact Factor: N/A Quartile: 3 DOI: https://doi.org/10.18485/ijdrm.2023.5.1.7	2023
Modeling concrete pavements for bending stresses considering nonlinear thermal gradient and aged CTE <i>Gauhar Sabih Rafiqul A. Tarefder Muhammad Jawed Iqbal</i> <i>Canadian Journal of Civil Engineering</i>, Volume 50, Issue 1, Pages 46-56 Impact Factor: 1.400 Quartile: 4 DOI: 10.1139/cjce-2022-0290	2023
Potential of Modal Shift and Park & Ride Scheme - BRT PESHAWAR <i>Talha Haroon Khan Sameer Ud-Din Malik Saqib Mahmood M Jawed Iqbal Nasir Ali</i> <i>International Journal of Engineering Technology and Scientific Innovation</i>, Volume: 06, Issue: 03, Pages: 18 Impact Factor: N/A DOI: https://www.ijetsi.org/more2021.php?id=3	2021
An Alternative Approach for Predicting the Accident Involvement Probability for Drivers in Peshawar City Pakistan <i>Asad Ali Sameer Ud Din Muhammad Jawed Iqbal Muhammad Jawed Iqbal</i> <i>Pakistan Journal of Engineering and Technology (PakJET)</i>, Volume 04, Number 01, Pages 79-84 Impact Factor: N/A DOI: 10.51846/vol4iss1pp79-84	2021
The effects of regional climatic condition on the spread of COVID-19 at global scale <i>Muhammad Mazhar Iqbal Irfan Abid Saddam Hussain Naeem Shahzad Muhammad Sohail Waqas Muhammad Jawed Iqbal</i> <i>Science of the Total Environment</i> , Volume 739, Article Number 140101 Impact Factor: 7.963 Quartile: 1 Citations: 93 DOI: 10.1016/j.scitotenv.2020.140101	2020
Enhancement of Hot Mix Asphalt (HMA) Properties Using Waste Polymers <i>Muhammad Bilal Khurshid Nadeem Anwer Qureshi Arshad Hussain Muhammad Jawed Iqbal</i> <i>Arabian Journal for Science and Engineering</i>, Volume 44, Issue 10, Pages 8239–8248 Impact Factor: 1.711 Quartile: 2 Citations: 38 DOI: 10.1007/s13369-019-03748-3	2019
Analysis of Non-Standardized Traffic Calming Devices under Local Conditions of Pakistan <i>Muhammad Jawed Iqbal Saira Ramzan</i> <i>International Journal of Engineering Works</i>, Volume 6, Issue 01, Pages 12-26 Impact Factor: - DOI: doi.org/10.5281/zenodo.2550739	2019
Multicriteria Decision Making (MCDM) for evaluation of different transportation alternatives: A case of Rawalpindi bypass Pakistan	2018

<i>Bilal Khurshid Muhammad Adeel Muhammad Jawed Iqbal Malik Kamran Shakir</i> <i>Journal of Sustainable Development of Transport and Logistics</i>, Volume 3(3), Pages 38-54 Impact Factor: 0 DOI: 10.14254/jsdtl.2018.3-3.3		
Economic Cost of Road Traffic Accidents in Twin Cities, Pakistan <i>Komal Chaudhary Muhammad Jawed Iqbal</i> <i>European Scientific Journal</i>, Volume 14(25), Pages 142-155 Impact Factor: N/A DOI: 10.19044/esj.2018.v14n25p142		2018
Estimating the Cost of Vehicle Damage due to Road Traffic Accidents in Lahore, Pakistan <i>Nasir Ali Muhammad Jawed Iqbal Malik Saqib Mahmood</i> <i>International Journal of Traffic and Transportation Engineering</i>, Volume 7(1), Pages 15-17 Impact Factor: - DOI: 10.5923/j.ijtte.20180701.03		2018
Evaluation of Rwp-Isl Metrobus Service <i>Muhammad Jawed Iqbal Farhan Jalil</i> <i>International Journal of Management Sciences and Business Research</i>, Volume 6, Issue 12, Pages 133-142 Impact Factor: 0 DOI: http://www.ijmsbr.com		2017
Gender-sensitive public health risks and vulnerabilities? assessment with reference to floods in Pakistan <i>Arshad Ali Haleema Sadia Muhammad Jawed Iqbal Junaid Ahmad Anees Ahmad</i> <i>International Journal of Disaster Risk Reduction</i>, Volume 19, Pages 47-56 Impact Factor: 1.603 Quartile: 2 Citations: 38 DOI: 10.1016/j.ijdr.2016.08.024		2016
Reason of the Unsustainability of Community Based Projects: A Critical Review <i>Zohaib Fazal Muhammad Jawed Iqbal Dr. Muhammad Bilal Khurshid</i> <i>Acta Technica Corviniensis - Bulletin of Engineering; Hunedoara</i>, Volume 9(3), Pages 147-149 Impact Factor: - DOI: -		2016
Participatory Land Use Planning in Natural Hazard's Fragile Context: A Case Study of Kalam, Pakistan <i>Muhammad Jawed Iqbal Ismail Khan Dr. Muhammad Bilal Khurshid Sadaf Saleem</i> <i>European Scientific Journal</i>, Special Edition 2016, Pages: 265-290 Impact Factor: N/A DOI: https://doi.org/10.19044/esj.2016.v12n10p%25p		2016
Utilization of Waste Polyethylene in Asphalt Mixes in Pakistan <i>Bilal Khurshid Sarfraz Ahmed Muhammad Jawed Iqbal Muhammad Irfan</i> <i>Sarhad University International Journal of Basic and Applied Sciences</i>, Volume 2, Issue 1, Pages 1-8 Impact Factor: N/A DOI: 000		2014
Analysis of Role of Media in Disaster Reporting in Pakistan <i>Muhammad Jawed Iqbal Fatima Masoo Ali Bilal Khurshid Sadaf Saleem</i> <i>European Scientific Journal</i>, Volume 1, Pages 570-575 Impact Factor: N/A DOI: 10.19044/esj.2014.v10n10p%25p		2014
Impacts of Attaabad lake (Pakistan) and its future outlook <i>Muhammad Jawed Iqbal Muhammad Naseem Baig Anwar Ul Haq Chaudhry Fiaz Hussain Shah</i> <i>European Scientific Journal</i>, Volume 10, No.8, Pages 107-120 Impact Factor: - DOI: 10.19044/esj.2014.v10n8p%25p		2014
Gender Mainstreaming in to Community Based Disaster Risk Management <i>Muhammad Jawed Iqbal Muhammad Naseem Baig Haleema Sadia Muhammad Bilal Khurshid Sadaf Saleem</i> <i>European Scientific Journal</i>, Volume 9, No.32, Pages 463-470 Impact Factor: 0 DOI: 10.19044/esj.2013.v9n32p%25p		2013

An analytical review of traffic congestion on murree road rawalpindi	2013
<i>Dr. Muhammad Bilal Khurshid Dr.Sarfraz Ahmed Muhammad Jawed Iqbal</i>	
<i>Sarhad University International Journal of Basic and Applied Sciences</i> , Volume 1, No. 1, Pages 167-173	
Impact Factor: N/A	

Conference Proceedings

Sensitivity Analysis of Design Parameters on Thickness and Performance of JPCP in Pakistan	2025
<i>Raja Muhammad Affan Muhammad Mursaleen Gauhar Sabih Muhammad Jawed Iqbal</i>	
<i>International Airfield and Highway Pavements Conference</i> , res.country(233,)	
Citations: N/A	
DOI: https://doi.org/10.1061/9780784486214.028	
Quantifying the Impact of Climatic Factors on JPCP Design and Performance in Pakistan	2025
<i>Muhammad Mursaleen Raja Muhammad Affan Gauhar Sabih Muhammad Jawed Iqbal</i>	
<i>International Airfield and Highway Pavements Conference</i> , res.country(233,)	
Citations: N/A	
DOI: https://doi.org/10.1061/9780784486214.027	
Impact of Proposed Bus Rapid Transit (BRT) Peshawar on Modal Shares of Private Modes	2022
<i>Jawwad Mehmood Dr. Muhammad Jawed Iqbal Dr. Sameer Ud Din N. Ali</i>	
<i>5th International Conference on Sustainable Civil Engineering Structures and Construction Materials</i> , res.country(197,)	
Citations: N/A	
DOI: https://doi.org/10.1007/978-981-16-7924-7_88	
Analyzing the Mobility of Multilane Highway using Travel Time as a Performance Measure	2020
<i>Dr. Muhammad Bilal Khurshid Arshad Hussain Muhammad Jawed Iqbal Jamal Ahmed Khan</i>	
<i>11th International Civil Engineering Conference (ICEC-2020)</i> , res.country(177,)	
Citations: N/A	
DOI: Nil	
Quantifying The Factors For Quality of Pavement Rehabilitation	2019
<i>Umair Imran Dr. Muhammad Bilal Khurshid Muhammad Jawed Iqbal</i>	
<i>10th International Civil Engineering Conference (ICEC-2019)</i> , res.country(177,)	
Citations: N/A	
DOI: Nil	
Effect of Waste Polymers in Enhancing the Properties and Performance of Hot Mix Asphalt	2017
<i>Dr. Muhammad Bilal Khurshid Muhammad Jawed Iqbal Nadeem Anwer Qureshi Arshad Hussain Muhammad Adeel</i>	
<i>International Conference on Sustainable Development in Civil Engineering</i> , res.country(177,)	
Citations: N/A	
DOI: International Conference on Sustainable Development in Civil Engineering	
WORK ZONE TRAFFIC MANAGEMENT IN REHABILITATION OF M-2	2016
<i>Dr. Muhammad Bilal Khurshid Muhammad Adeel Malik Kamran Shakir Muhammad Jawed Iqbal</i>	
<i>3rd International Multidisciplinary Research Conference 2016 On Global Prosperity through Research & Innovation</i> , res.country(177,)	
Citations: N/A	
DOI: Nil	
Participatory Land Use Planning in Natural Hazard's Fragile Context: A Case Study of Kalam, Pakistan	2016
<i>Muhammad Jawed Iqbal Ismail Khan Dr. Muhammad Bilal Khurshid Sadaf Saleem</i>	
<i>4th Mediterranean Interdisciplinary Forum on Social Sciences and Humanities, MIFS 2016</i> , res.country(68,)	
Citations: N/A	
DOI: 4th Mediterranean Interdisciplinary Forum on Social Sciences and Humanities, MIFS 2016	
Impact Study: New Benazir Bhutto International Airport Islamabad	2013
<i>Muhammad Irfan Muhammad Bilal Khurshid Dr.Sarfraz Ahmed Muhammad Jawed Iqbal</i>	
<i>5th World Engineering Congress (WEC)</i> , res.country(177,)	
Citations: N/A	
DOI: Nil	