Dr. ABDULLAH AHMAD

Assistant Professor

Department of Civil Engineering

NIT Srinagar, J&K

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TEACHING EXPERIENCE

Assistant Professor ***Since November, 2018***
Department of Civil Engineering,
NIT Srinagar, J&K.

Assistant Professor ***August, 2017 to October 2018***
Department of Civil Engineering, ZHCET,
AMU, Aligarh, U.P.

Assistant Professor ***August 2016 to August 2017***
School of Technology, Glocal University,
Saharanpur, U.P.

EDUCATION

Ph. D in Transportation Engineering ***Awarded on 6th August, 2016***
Indian Institute of Technology Roorkee (IIT Roorkee)
Thesis Title: Development and Calibration of Entry Capacity Model of Modern Roundabouts

M. Tech in Transportation Engineering ***June, 2012***
Indian Institute of Technology Roorkee (IIT Roorkee)
Dissertation: Pavement Performance Study for Four Lane Highways

B. Tech in Civil Engineering ***June, 2010***

ACADEMIC ACHIEVEMENTS

GATE 2010, All India Rank: 405

RESEARCH INTERESTS

- Traffic Engineering
- Pavement Materials
- Pavement Evaluation and Management

RESEARCH & DEVELOPMENT PROJECT

Abdullah Ahmad "*Traffic Congestion Analysis of Srinagar City*" Research and Development Project with Seed Money under TEQIP-III, NIT Srinagar, Srinagar (J&K).

RESEARCH PAPERS PUBLISHED IN JOURNALS

1. Mudasir Ahmad Dar, Tazim Ameen and **Abdullah Ahmad** (2023) *"Pedestrian Conflict Yielding Behaviour at Uncontrolled T-Intersections: A Multinomial Logistic Regression Approach."* Journal of The Institution of Engineers (India): Series A, 1-15, DOI: 10.1007/s40030-023-00741-w.

2. Tazim Ameen, Wajid Rashid and **Abdullah Ahmad** (2023) *"Estimation of Vehicular Delay in Presence of Illegally Crossing Pedestrians and Determination of LOS Using Cluster Analysis at Midblock Sections of Urban Roads"* Innovative Infrastructure Solutions, Vol. 8, No.1, DOI: 10.1007/s41062-022-00994-7.

3. Mohammad Amin Kumar and **Abdullah Ahmad** *(2023) "Utilization of Waste Medical Gloves as Additive in Stone Matrix Asphalt: Pavement Performance and Environmental Impact" International Research Journal of Modernization in Engineering Technology and Science*, Vol. 5, No.2, DOI: 10.56726/irjmets33847.

4. Dungar Singh, Tazim Ameen and **Abdullah Ahmad** (2021) "*Analysis of Delay and Queue Length Variation at Three-Leg Signalized Intersection Under Mixed Traffic Condition*" Innovative Infrastructure Solutions, Springer, Vol. 6, DOI: 10.1007/s41062-021-00493-1.

5. **Abdullah Ahmad** and Rajat Rastogi (2019) "*Calibrating HCM model for roundabout entry capacity under heterogeneous traffic*" Journal of Modern Transportation, Springer, Vol. 27, No. 4, pp. 293-305, DOI: 10.1007/s40534-019-00194-7.

6. Mohammed Wasim Akhtar, **Abdullah Ahmad** and Rajat Rastogi (2018) "*Gap Acceptance Behavior and Vehicle Speed on Roundabouts: Case Study in India*" European Transport \ Trasporti Europei, Vol. 68, No. 2, pp. 1–16.

7. **Abdullah Ahmad** and Rajat Rastogi (2017) "*An Approach to Deal with Heterogeneity on Roundabouts*" International Journal of Civil Engineering, Springer, Vol. 15, No. 4, pp. 585–598, DOI: 10.1007/s40999-017-0189-4.

8. **Abdullah Ahmad** and Rajat Rastogi (2017), '*Influence of Roundabout Size and Circulating Traffic on Critical Gaps, Follow-up Times and Speeds*, Indian Highways, Indian Roads Congress, Vol. 45, No. 1, pp. 37-48.

9. **Abdullah Ahmad** and Rajat Rastogi (2017) "*Regression Model for Entry Capacity of a Roundabout under Mixed Traffic Condition – An Indian Case Study*" Transportation Letters:

The International Journal of Transportation Research, Vol. 9, No. 5, pp. 243-257, DOI: 10.1080/ 19427867.2016.1203603.

10. Srinath Mahesh, **Abdullah Ahmad** and Rajat Rastogi (2016). "*An Approach for the Estimation of Entry Flows on Roundabouts*" Transportation Research Procedia, Elsevier, Vol. 17, pp. 52-62, DOI: 10.1016/j.trpro.2016.11.060.

11. **Abdullah Ahmad**, Rajat Rastogi and Satish Chandra (2015) "*Estimation of Critical Gap on a Roundabout by Minimizing the Sum of Absolute Difference in Accepted Gap Data*" Canadian Journal of Civil Engineering, Vol.42, No. 12, pp. 1011–1018, DOI: 10.1139/cjce-2014-0450.

12. **Abdullah Ahmad** and Yassir Nashaat A. Kareem (2015) "*Fatigue Behavior of Polypropylene Fiber Reinforced Bituminous Concrete Mix*" International Journal of Engineering Research & Technology (IJERT), Vol. 4, No. 2, pp. 449-453.

13. **Abdullah Ahmad**, Srinath Mahesh and Rajat Rastogi (2014). "*Selection of Roundabout Entry Capacity Model for Indian Condition*" Urban Transport Journal, Vol.13, No. 1, pp. 79-87.

RESEARCH PAPERS PUBLISHED IN CONFERENCES

1. Tazim Ameen, Rouf Ahmad and **Abdullah Ahmad** (2023) "*Study and Analysis on Utilization of Foot Over Bridges in Indian Urban City"* International Antalya Scientific Research and Innovative Studies Congress, Antalya, Türkiye, February 13-14, ISBN - 978-625-6404-64-9.

2. Syed Ibrahim Kamili, Tazim Ameen and **Abdullah Ahmad** (2023) *"Analyzing the Dilemna Zone at Median Openings in Urban Areas to Enhance Safety and Efficiency"* 3rd International Conference on Innovative Research in Sciences, Technology, Agriculture, Environment, Business Management and Humanities, National Institute of Technology Srinagar, J&K, India, 13th – 14th May.

3. Dungar Singh, Pritikana Das and **Abdullah Ahmad** (2023) *"Road Safety Evaluation at Urban Unsignalized Intersections Using Conflict Techniques"* A National Conference on Road Safety, Maulana Azad National Institute of Technology Bhopal, India, 29th – 31st May.

4. Tazim Ameen, **Abdullah Ahmad** and Jitendra Gurjar (2023) *"Analysis of Pedestrian Risk Based on Safety Margin and Critical Gap at Uncontrolled Mid-Block Sections"* A National Conference on Road Safety, Maulana Azad National Institute of Technology Bhopal, India, 29th -31st May.

5. Jitendra Gurjar and **Abdullah Ahmad** (2023)*"A Comprehensive Approach For Ranking Accident Black Spots In A Road Network Using Machine Learning Techniques"* A National Conference on Road Safety, Maulana Azad National Institute of Technology Bhopal, India, 29th -31st May.

6. **Abdullah Ahmad** (2018) "*Comparative Study of Scheduled and Condition Responsive Maintenance Strategies for National Highways*" 3rd International Conference on Advancement in Engineering, Applied Science and Management, at Indian Council of Social Science Research, Punjab University Campus, Chandigarh, India, May, 27.

7. **Abdullah Ahmad** (2016). "*Pavement Performance Prediction for National Highway Using HDM-4*" National Conference on Advances in Geotechnical Engineering (AGE-2016), AMU, Aligarh, India, April, 8-9.

8. Srinath Mahesh, **Abdullah Ahmad** and Rajat Rastogi (2014). "*An Approach for the Estimation of Entry Flows on Roundabouts*" Conference on Transportation Planning and Implementation Methodologies for Developing Countries, IIT Bombay, India, December, 10-12.

9. **Abdullah Ahmad**, Jain, S. S. and Parida, M. (2013) "*Updating Road User Cost and its Implication*" 2nd International Conference on Emerging Trends in Engineering and Technology, College of Engineering, Teerthanker Mahaveer University, Moradabad, India, April 12-13.

10. **Abdullah Ahmad**, Jain, S. S. and Parida, M. (2012) "*Scope of the Pavement Performance Study for National Highways*" International Conference on Recent Advances in Engineering, Technology and Management, Sardar Patel College of Engineering, Mumbai, India, May 31st – June 2nd.

ORGANIZED WORKSHOP/ SHORT TERM COURSE/ ETC.

- Organized one-week online workshop on "Patent Filing" 20-24 June, 2022 at NIT Srinagar, Hazratbal, Srinagar, J&K.
- Organized one-week online workshop on "Design and Analysis Tools to Explore and Visualize 2D/3D Concepts" 04-08 January, 2021 at NIT Srinagar, Hazratbal, Srinagar, J&K.

TRAINING / WORKSHOP / SEMINAR / CONFERENCE ATTENDED

- Participated in One -Week Workshop on "Transport Research and Innovations", National Institute of Technology Uttarakhand, September 18-22, 2020.
- Participated in Software Training Course on "Inro Emme and Inro Dynameq", Sunovatech, New Delhi, August 17-19, 2020 and August 25-27, 2020.
- Participated in One -Week Faculty Development Programme on "Outcome Based Education", National Institute of Technology Srinagar (J&K), May 18-22, 2019.
- Participated in One -Week Faculty Development Programme on "Pedagogy", National Institute of Technology Srinagar (J&K), April 1-5, 2019.

- Participated in Lecture Series on "Innovation and Research Methodologies", Aligarh Muslim University, Aligarh, July 23-25, 2018.
- Participated in Workshop on "Design of Experiments: Engineering Applications", Aligarh Muslim University, Aligarh, May 4-5, 2018.
- Participated in one-week Workshop Program on "Cyber Crime & Forensic Tools through ICT" organized by National Institute of Technical Teachers Training and Research, Chandigarh, February 06-10, 2017.
- Participated in workshop on "Innovative Construction Machinery, Materials and Methods", IIT-Roorkee, October 26-27, 2015.
- Participated in "Indian Geotechnical Conference (IGC-2013)", IIT-Roorkee, December 22-24, 2013.
- Participated in workshop on "Disaster Management", AMU, Aligarh, October 9-11, 2009.
- One-month training under "Samiah Group of Constructions", June 1-30, 2009.

RESPONSIBILITIES (ADMINISTRATIVE/ ACADEMIC/ ETC.)

- Coordinator, B. Tech. 7th Semester, "To coordinate all 5th Semester civil engineering students related to academic activities" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 31-08-2021 to 19-02-2022.
- Coordinator, B. Tech. 6th Semester, "To coordinate all 6th Semester civil engineering students related to academic activities" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 20-02-2021 to 30-08-2021.
- Faculty Incharge, Section G: Living Experience related to India Today-MDRA Best College Survey 2021, "To collect all the data related to facilities available in the Institute", NIT Srinagar, Srinagar (J&K) from 07-01-2021 to till date.
- Departmental Coordinator, GATE-2021, "To review and monitoring of online GATE-2021 coaching classes by Training & Placement Department of the Institute under TEQIP-III", NIT Srinagar, Srinagar (J&K) from 14-12-2020 to till date.
- Departmental Coordinator, RP Data related to NIRF-2021, "To collect all the departmental data related to Research Publication", NIT Srinagar, Srinagar (J&K) from 18-09-2020 to till date.
- Coordinator, B. Tech. 5th Semester, "To coordinate all 5th Semester civil engineering students related to academic activities" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 31-08-2020 to 19-02-2021.

- Coordinator, B. Tech. 4th Semester, "To coordinate all 4th Semester civil engineering students related to academic activities" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 03-03-2020 to 30-08-2020.
- Faculty Incharge, Criterion-6 of NBA, "Guiding and verifying the documents related Criterion-6 of the Institute", NIT Srinagar, Srinagar (J&K) from 14-12-2019 to till date.
- Member of Departmental Post Graduate Committee (DPGC), "To deal with all the activities related to PG Courses", Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 02-12-2019 to till date.
- Departmental Coordinator of NIRF 2020, "To collect all the Departmental data related to NIRF" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 20-11-2019 to 17-09-2020.
- Coordinator, B. Tech. 3rd Semester, "To coordinate all 3rd Semester civil engineering students related to academic activities" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 26-07-2019 to 02-03-2020.
- Member of Fee Concession/Waiver Scrutinize Committee, "To scrutinize/verify the applications of Batch-2018 students for consideration of fee concession/fee waiver" NIT Srinagar, Srinagar (J&K) from 02-07-2019 to 01-07-2020.
- Member of Unnat Bharat Abhiyan Committee, "To smooth conduct of Unnat Bharat Abhiyan in the state of Jammu & Kashmir." NIT Srinagar, Srinagar (J&K) from 25-07-2019 to till date.
- Faculty Incharge of Traffic Engineering Laboratory, "To upgrade and maintain the Traffic Engineering Laboratory", Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 05-03-2019 to till date.
- Website Coordinator, "To update the Civil Engineering Departmental website from time to time" Department of Civil Engineering, NIT Srinagar, Srinagar (J&K) from 14-11-2018 to till date.

B. TECH. PROJECT SUPERVISED

1. Aaqib Ahmad Najar, G. Charan Reddy and T.S.S. Hemanth (2023) "Modification of Asphalt Binders and Mixes with Superplasics."

2. Umar Afkar Nomani, Vivek Kumar and Moonis Ahmad Najar (2023) "Modelling of Entry Capacity at Roundabout under heterogeneous traffic conditions using PCU by Occupancy time method."

3. Sumit Kumar, Raushan Kumar and Akash Gupta (2022) "Estimating PCU values at Roundabouts using Occupancy Time Method under Mixed Traffic Conditions."

4. Aamir Gul, Showkat Ahmad Kumar and Bommireddy Vijay Kumar Reddy (2022) "Evaluation of PCU Values at Mid-Block Road Sections in Srinagar City using Occupancy Time."
5. Sourabh Mishra, Ankit Kumar Maurya and Sandeep Singh (2021) "Analysis of Factors Influencing Accidents On Indian Roads by Machine Learning Approach."
6. Asifa Jan, Bisma Farooq and Umer Nabi (2021) "Effect of Weather Conditions On PCU at Unsignalized Intersections."
7. Abhay Kumar Singh, Ashish Kumar Chaudhary and Amit Kumar Singh (2020) "Traffic Analysis of Intersections in Srinagar City."
8. Mohd Imran, Mohd Nawaz and Mohammad Shukaib (2020) "Study of Traffic Volume and Spot Speed."

M. TECH. DISSERTATION SUPERVISED

1. Nadia Nisar Malik (2023) "Influence of Side Friction Parameters on Capacity of Undivided Urban Sections."
2. Syed Farhan Shafi (2023) "(2023) "Traffic Noise Prediction Modelling Using Vehicular Traffic Characteristics and Pavement Distress Under Heterogeneous Traffic Condition."
3. Sheikh Maviya Maqbool (2023) "A Physical and Rheological Study of Superplast Modified Asphalt Binders."
4. Syed Ibrahim Kamili (2023) "Dilemma Zone Analysis for Median U-Turns in Srinagar City."
5. Huzaifa Altaf (2023) "Influence of mobile phone usage on Pedestrian Crossing Behaviour at Uncontrolled Mid-block Sections."
6. Asmat Nabi (2023) "Determination of Sidewalk Walkability Index for Urban Roads in Developing Countries."
7. Md Irfan Salim (2022) "A Physical and Rheological study of SBS and EVA modified Binders."
8. Sheikh Miftah Ul Haq (2022) "Performance Evaluation of Stone Mastic Asphalt Using Recron 3s Fiber."
9. Mudasir Ahmad Dar (2022) "Pedestrian Conflict Yielding Behaviour at Uncontrolled T-Intersections."
10. Mufti Wasil Javaid (2022) "Side friction parameters and their influences on the capacity of urban Mid-block divided sections of Srinagar roads."
11. Rouf Ahmad Mir (2022) "Study on Utilization of Foot Over Bridges in Srinagar City."
12. Zeeshan Rashid (2022) "Modelling of Traffic Noise and Air Pollution Using Traffic & Pavement Characteristics."

13. Wajid Rashid (2021) "Effect of Illegally Crossing Pedestrians On Vehicular Delay and Los at Midblock Sections of Srinagar Roads."

14. Aijaz Ahmad (2021) "Effect of Freeze and Thaw Cycles On the Tensile Strength of Bituminous Mixes: A Comparison Between SMA and Bituminous Concrete."

15. Imtiyaz Gul (2021) "A Physical and Rheological Study of SBS and EVA Modified Binders."

16. Mohammad Amin Kumar (2021) "Utilization of Waste Medical Gloves as Additive in Stone Matrix Asphalt: Pavement Performance and Environmental Impact."

17. Shakir Bashir (2021) "Assessment of Gap Acceptance Behaviour at Unsignalized Intersections in Srinagar City."

18. Sufiyan Ali (2021) "Analysis of Pedestrian Crossing Behavior at Uncontrolled Mid-Block Section."

19. Haris Wajeeh Mir (2020) "Predicting Sidewalk Walkability in Srinagar City of J&K."

20. Dungar Singh (2020) "Study on Passenger Car Units and Saturation Flow at Signalized Intersection Under Mixed Traffic Condition in Jaipur City."

21. Moin Ul Islam (2020) "Congestion Modelling and Level of Service Assessment of Urban Roads in Mixed Traffic Conditions."

22. Haris Tariq Baba (2020) "Examining Risk Exposure of Motorized Two Wheelers at Signalized Intersections Under Mixed Traffic Conditions in Srinagar City in India."

23. Ishfaq Mohi Ud Din (2020) "Effect of Weather on PCU and Capacity at Unsignalized Intersections."

24. Salil Kumar (2020) "Study on Traffic Noise Pollution Levels in Different Zones Under Heterogeneous Traffic Conditions."

SKILLS and TECHNIQUES

- HDM-4
- VISSIM
- INRO EMME
- INRO DYNAMEQ
- Auto CAD
- SPSS
- Basic 'C' programming
- MS Excel

MEMBERSHIP OF PROFESSIONALS / ACADEMIC BODIES

- Institution of Engineers (India), [AM – 150598-2, 2013]
- Indian Roads Congress (India), [ELM-101733, 2018]
- Transportation Research Group of India, [Life Member]

HONOURS / AWARDS

- MHRD fellowship at IIT Roorkee during doctoral research (2012-2016)
- MHRD fellowship at IIT Roorkee during M. Tech (2010-12)

REFERENCES

Dr. A. Q. Dar,
Professor

Department of Civil Engineering,

NIT Srinagar, Srinagar, India 190006

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+919419001914

Dr. Rajat Rastogi,
Professor

Department of Civil Engineering,

IIT Roorkee, Roorkee, India 247667

rajatfce@iitr.ac.in,
+919411501555

Dr. Satish Chandra,
Professor

Department of Civil Engineering,

IIT Roorkee, Roorkee, India 247667

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+919412394357

DECLARATION

I hereby confirm that all the information provided above is correct to the best of my knowledge and I am fully responsible for all the details provided above.

(Abdullah Ahmad)