



## Dr. Ashish Dhamaniya

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**Present Position:** Assistant Professor (Civil Engineering)  
**Specialization:** Transportation Engineering  
**Employer:** SV National Institute of Technology, (SVNIT) Surat  
**Date of Joining:** 04.09.2007  
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### EDUCATIONAL QUALIFICATION

- Ph.D. from IIT Roorkee in 2014.
- Passed M.Tech (Transportation Engineering) with Honours from M.N.I.T., Jaipur in 2003.
- Passed B.E. (Civil Engineering) with First Class from M.B.M. Engineering College, Jai Narayan Vyas University, Jodhpur in 2001.

### RESEARCH INTERSETS

1. Dynamic Traffic Flow Modeling
2. Highway Capacity and Level of Service
3. GIS and GPS applications in Transportation Engineering
4. Pedestrian Flow Modelling and Facility Design
5. Road Safety, Pedestrians and Motorists.

### THESIS TITLES

1. Ph.D. Thesis “Capacity Analysis of Urban Arterial Roads under Mixed Traffic Conditions” under the supervision of Dr. Satish Chandra, Professor at IIT Roorkee.
2. M.Tech. Thesis “Use of GIS in Transportation Planning of Jaipur City” under the supervision of Dr. Rohit Goyal, Professor at MNIT Jaipur.

## **AWARD/SCHOLARSHIP RECEIVED**

1. Awarded with the DST-SERB International Travel Support (ITS) grant to present paper in 93<sup>rd</sup> Annual Meeting of Transportation Research Board (TRB) held at Washington D.C. USA during January, 12 – 16, 2014.
2. Received GATE scholarship during July 2001 to December 2002 for pursuing M.Tech.

## **PROFESSIONAL BACKGROUND**

1. Worked as Project Engineer in Airports Authority of India (AAI) project at Jaipur Airport.
2. Worked as a Lecturer in Civil Engineering Department, Institute of Engineering and Technology, Dr. B R Ambedkar University, Agra.
3. Worked as a Lecturer in Civil Engineering Department, G. B. Pant Engineering College, Pauri Garhwal, Uttrakhand.
4. Working as an Assistant Professor in Civil Engineering Department, S.V. National Institute of Technology, Surat (NIT Surat).

## **RESEARCH PUBLICATIONS**

### **International Journal**

1. Ashish Dhamaniya and Satish Chandra. (2013), “Concept of Stream Equivalency Factor for Heterogeneous Traffic on Urban Arterial Roads.”  
*Journal of Transportation Engineering*, ASCE, Vol. 139 (11), 1117-1123. (SCI Listed)  
<http://www.ascelibrary.org>
2. Ashish Dhamaniya and Satish Chandra (2014) “Influence of Undesignated Pedestrian Crossings on Midblock Capacity of Urban Roads.”  
*Transportation Research Record*, Journal of Transportation Research Board, Washington D.C., USA. (*in press*). (SCI Listed)
3. Ashish Dhamaniya and Satish Chandra. (2014), “Speed Based Capacity Model for Urban Arterial Roads.”  
*Traffic Engineering & Control*, London, Vol. 55 (2), 75-78. (SCI Listed)

<http://www.tecmagazine.com>

4. Ashish Dhamaniya and Satish Chandra. (2013), “Speed Characteristics of Mixed Traffic Flow on Urban Arterials.”  
*International Journal of Civil, Architectural Science and Engineering*, Vol. 7 (11), 330 – 335. (International Science Index)
5. Ashish Dhamaniya (2014) “Maintenance Criteria of PMGSY Roads in Second Phase of Planning: A Case Study”  
*Journal of the Indian Society of Remote Sensing* Vol 42 (4), 851-858. (SCI Listed)  
Springer Publication (SCI Listed) DOI:10.1007/s12524-013-0338-4
6. Ashish Dhamaniya and Satish Chandra “Simultaneous Equation Approach for Estimation of Passenger Car Units of Urban Arterial Roads.”  
*Transportation Research Part A*, Under First Review. (SCI Listed)
7. Ashish Dhamaniya, Sai Chand and Satish Chanadra “Effect of Curbside Bus Stop on Capacity of Urban Arterial Roads.”  
*Journal of Transportation Engineering*, ASCE under Second Review. (SCI Listed)
8. Satish Chandra and Ashish Dhamaniya “Influence of Operating Speed on Capacity of Urban Arterial Midblock Section.”  
*KSCE Journal of Civil Engineering*. Under First Review. (SCI Listed)
9. Ashish Dhamaniya and Dilip Patel (2011) “Road Traffic Air Pollution Level in Surat City: A GIS Approach”  
*International Journal of Information Technology and Network Application*. Vol. 1(2), 10-16. (Peer –Review)  
<http://www.ijitna.org>
10. Ashish Dhamaniya “Presentation of Air Pollution Data using GIS: A case study”.  
International journal”  
*Journal of Environmental Research and Development* Vol. 5(2), 350-358. (Peer –Review)  
<http://www.jerad.org>
11. Ashish Dhamaniya and Rohit Goyal (2004) “Use of Geographic information system (GIS) in Transportation Planning of Jaipur City”  
*GIS Development* Vol. 8(11), 38-43. (SCI Listed)  
[http:// www.GIS development.net/gisdev/2004/nov/index.shyml](http://www.GISdevelopment.net/gisdev/2004/nov/index.shyml)

### **National Journal**

12. Ashish Dhamaniya and Satish Chandra. (2012), “Future Challenges for Traffic Engineers.”  
*Indian Highways*, Indian Roads Congress (IRC), New Delhi. Special Issue Vol. 40(6), 75 – 81.
13. Ashish Dhamaniya, G.V. Rao and Satish Chandra (2014) “Effect of Pedestrian Cross - Flow on Capacity of Urban Arterials” *Indian Highways*, Indian Roads Congress (IRC), New Delhi. Vol. 42(1), 51-58.
14. Ashish Dhamaniya and Satish Chandra. “Midblock Capacity of Urban Arterial Roads in India.”  
*Indian Highways*, Indian Roads Congress (IRC), New Delhi. Special Issue Vol. 44(6), 39 – 51.

### **International Conferences**

1. Presented Paper in 93<sup>rd</sup> Annual Meeting of Transportation Research Board (TRB) organized by Transportation Research Board of National Academies, Washington D.C., USA.  
Title of Paper: Influence of Undesignated Pedestrian Crossings on Midblock Capacity of Urban Roads (SCI Listed)
2. Presented Paper in “3<sup>rd</sup> International conference on Urban Transportation Systems” organized by American Society of Civil Engineers (ASCE) during 17-20 November, 2013 at Paris, France.  
DOI: 10.1061/9780784413210.012 Page No.: 124-135  
Title of paper: Development of Accident Prediction Model under Mixed traffic Conditions- A Case Study. (SCI Listed)
3. Presented Paper in “2<sup>nd</sup> Conference of Transportation Research Group of India” (CTRG) held in Agra, India during December 12-15, 2013.  
Title of Paper: Speed Prediction Models for Urban Arterials under Mixed Traffic Conditions.  
DOI: 10.1016/j.sbspro.2013.11.127 Page no. 343 – 351.

4. Presented Paper in “International Conference of Traffic and Transportation Engineering” held in Venice, Italy during November 14-15, 2013. (International Science Index)  
Title of Paper: Speed Characteristics of Mixed Traffic Flow on Urban Arterials.
5. Presented Paper in “18<sup>th</sup> International Conference of Hong Kong Society for Transportation Studies” (HKSTS) held in Hong Kong during December 14-16, 2013.  
Title of Paper: Speed Distribution and Free Speed Characteristics on Urban Arterials under Mixed Traffic Conditions.
6. Presented paper in “1<sup>st</sup> Conference of Transportation research Group of India” (CTRG – 2011) held at Vivanta by Taj, Bangalore, India from December 7 – 11, 2011.  
Title of Paper: Upgradation Planning of PMGSY Roads: A Case Study.
7. Presented paper in “Development in Road Transportation”. International Conference organized by NIT Rourkela, India from October 8 – 10, 2010.  
Title of Paper: Development of Flexible Pavement Cost Model for Different Soil and Traffic Conditions.
8. Presented Paper in “International Congress of Environmental Research” (ICER - 2010) International Conference organised by Journal of Environmental Research and Development (India) at University of Mauritius, Reduit, Mauritius from September 16 – 18, 2010.  
Title of Paper: Road Traffic Air pollution Level of Surat City: A GIS Approach.
9. Presented Paper in “International Congress of Environmental Research” (ICER - 2010) International Conference organised by Journal of Environmental Research and Development (India) at University of Mauritius, Reduit, Mauritius from September 16 – 18, 2010.  
Title of Paper: Flood Management of Surat City.
10. Presented Paper in “International Conference on Pavement Engineering” (ICPE) International Conference organised by College of Engineering & Technology, Bhubaneswar, India during February 14 – 15, 2009. Title of Paper: GIS in Transportation: A Case Study of Jaipur City
11. Presented Paper in “International Congress of Environmental Research” (ICER - 2010) International Conference organised at Birla Institute of Technology and Science, Pilani - Goa Campus, Goa, India from December 18 – 20, 2008.

- Title of Paper: Presentation of air pollution data using GIS technology: A case study
12. Paper Accepted in “26<sup>th</sup> Australian Road Research Board (ARRB) Conference”  
International Conference organized by ARRB at Olympic Park, Sydney, Australia during October, 29 – 22, 2014.  
Title of paper: Effect of Traffic Mix on Capacity of Urban Arterial Roads.
13. Paper Accepted in “19<sup>th</sup> International Conference of Hong Kong Society for Transportation Studies” (HKSTS) being held in Hong Kong during December 13-15, 2014.  
Title of Paper: Capacity Loss at Midblock Sections of Urban Arterial Roads due to Pedestrian Crossings.
14. Presented Paper in “International Conference on Sustainable Civil Infrastructure” (ICSCI - 2014)  
International Conference organised by American Society of Civil Engineers (ASCE) India Section and Civil Engineering Department IIT Hyderabad, India from October 17 – 18, 2014.  
Title of Paper: Capacity drop of Urban Arterial due to a Curbside Bus Stop, pp 19-28.

#### **National Conferences/Symposium**

15. Presented paper in “Recent Advances in Traffic Engineering” (RATE-12). A National Conference organized by Department of Civil Engineering, SVNIT, Surat in collaboration with Indian Roads Congress (IRC) New Delhi and supported by Department of Science and Technology (DST) New Delhi during 07 – 09 June, 2012.  
Title of Paper: A note on Capacity Estimation Methods.
16. Presented paper in “Urban Mobility India 2011” organized by Ministry of Urban Development, Government of India at New Delhi from December 3 – 6, 2011.  
Title of Paper: Factors Affecting Capacity of Urban Roads – A Review
17. Presented paper in “Sustainable Urban & Transportation Planning: Issues & Management Strategies” (SUTRIMS – 2011) organized by SVNIT Surat from July 8 – 10, 2011.  
Title of Paper: Spatial Analysis for Transportation Management: A case study of Jaipur City.
18. Presented paper in “Sustainable Urban & Transportation Planning: Issues & Management Strategies” (SUTRIMS – 2011) organized by SVNIT Surat from July 8 – 10, 2011.

- Title of Paper: Road Accident Scenario of Urban Area: A Case Study of Surat City.
19. Presented paper in “Civil Engineering Conference: Innovation without Limits” organized by NIT Hamirpur, from September 18 – 19, 2009.
- Title of Paper: GIS based Traffic information System.
20. Presented paper in “Sustainable Urban & Transportation Planning: Issues & Management Strategies” (SUTRIMS – 2007) organized by SVNIT Surat from December 28 – 29, 2007.
- Title of Paper: Air Pollution due to Traffic.
21. Presented paper in “Sustainable Urban & Transportation Planning: Issues & Management Strategies” (SUTRIMS – 2007) organized by SVNIT Surat from December 28 – 29, 2007.
- Title of Paper: Intelligent Transportation System: A need for Urban Traffic Control and Management.
22. Presented paper in “Environmental Pollution and its Control” – EPIC – 06 organised by engineering College, Kota from March 25 – 26, 2006.
- Title of paper: Air Pollution and its Reduction Techniques: A Case Study of Agra City
23. Presented paper in “24<sup>th</sup> ISRS Annual Convention and National Symposium. Converging Space Technologies for National Development” organized by BM Birla Science & Technology Centre, Jaipur from November 3 – 5, 2004.
- Title of paper: Analysis of GIS data in Transportation Planning of Jaipur City

### **CONFERENCES/STTP/WORKSHOP ORGANISED**

#### **Conferences/Workshop:**

1. Organised a National Conference on “Sustainable Urban & Transportation Planning: Issues & Management Strategies” (SUTRIMS – 2011) at SVNIT Surat.  
Conference Duration: July 8 – 10, 2011.
2. Organised a National Workshop on “Utilization of Fly Ash” at SVNIT Surat during June 10–11, 2011. Supported by Department of Science & Technology (DST), New Delhi
3. Organised a National Conference on “Sustainable Urban & Transportation Planning: Issues & Management Strategies” (SUTRIMS – 2007) at SVNIT Surat.  
Conference Duration: December 28 – 29, 2007.

### **Short Term Training Programmes (STTP):**

1. Organised the AICTE sponsored Short Term Training Programme on “Discrete Choice Modeling” (DCM – 09) from December 21 – 25, 2009 at S.V. National Institute of Technology, Surat.
2. Organised the AICTE sponsored Short Term Training Programme on “Approaches & Practices in Urban Transportation Planning” from January 5 – 11, 2009 at S.V. National Institute of Technology, Surat.
3. Organised the TEQIP sponsored Training Course on “Plumbing Techniques” from September 1 – 10, 2006 at G.B. Pant Engineering College, Pauri Garhwal, Uttrakhand.

### **M.TECH. THESIS GUIDED**

1. Completed: 07
2. Ongoing: 02

### **PROJECTS UNDERTAKEN**

#### **Sponsored Research Projects:**

1. Study of Speed Flow Characteristics and Flow behaviour under Mixed Traffic Condition in Indian Urban Context.  
Project grant: 35.10 Lac.  
Agency: Indian Roads Congress (IRC), New Delhi and SVNIT Surat.  
Present Status: Ongoing.
2. Development of Indo-Highway Capacity Manual (Indo-HCM).  
Project cost: Rs. 100.45 Lakhs.  
Agency: CSIR-CRRI, New Delhi.  
Present Status: Ongoing.

#### **Industrial Projects:**

3. Extension and grade correction of existing runway 09/27 at Jaipur airport.  
Project cost: Rs. 21 Crore.  
Agency: Airports Authority of India  
Present Status: Completed.



4. Widening of existing two-lane bridges into six-lane long at Bambala on Tonk Road, Gandha Nallah and Amanishah ka Nallah at Gopalpura Bypass in Jaipur.

Project Cost: Rs. 10.52 Crore

Agency: Jaipur Development Authority.

Present Status: Completed.

#### **EXPERT LECTURE DELIVERED**

1. Delivered Expert Lecture on “Effect of Pedestrian Crossings on Midblock Capacity of Urban Roads” in TEQIP Sponsored Short Term Training Programme on ‘Recent Advance Studies in Traffic Engineering’ Organised by Civil Engineering Department S.V.N.I.T. Surat during 30.06.14 to 12.07.14
2. Delivered Expert Lecture on “Bridge Engineering” at Charotar Institute of Technology, Changa, Gujarat during February and March 2011.
3. Delivered Expert Lecture on “Geographic Information System – Utility & Applications” in AICTE Sponsored Short Term Training Programme on “Discrete Choice Modeling” Organised by Civil Engineering Department, S.V.N.I.T. Surat during 21.12.09 to 25.12.09
4. Delivered Expert Lecture on “Geographic Information System – Transportation” in AICTE Sponsored Short Term Training Programme on “Recent Trends in Urban Transportation Planning” Organised by Civil Engineering Department, S.V.N.I.T. Surat during 05.10.09 to 09.10.09.
5. Delivered Expert Lecture on “Use of Geographic Information System in Transportation Planning” In AICTE Sponsored Short Term Training Programme on “Approaches and Practices in Urban Transportation Planning” Organised by Civil Engineering Department, S.V.N.I.T. Surat during 05.01.09 To 09.01.09.
6. Delivered Expert Lectures on Hydro Turbines to the Assistant Engineers of Uttaranchal Jal Vidyut Nigam Limited at Assistant Engineers Academy, Kalagarh, Uttarakhand during 13.07.06 – 15.07.06.
7. Delivered Expert Lectures on Plumbing Technique in a Training Course on “Plumbing Techniques” Under Services to Community and Economy, TEQIP at G.B. Pant Engineering College, Pauri Garhwal, Uttarakhand during 01.09.06 – 10.09.06.

### **REVIEWER TECHNICAL PAPERS**

1. Journal of Transportation Engineering, ASCE
2. Journal of Indian Society of Remote Sensing
3. Indian Roads Congress
4. CTRG
5. TPMDC

### **MEMBERSHIP OF TECHNICAL BODY**

1. Life member of Indian Roads Congress (IRC) New Delhi. (LM-34100)
2. Member of Institution of Engineers of India. (M-145003-9)
3. Member – Transportation Research Board (TRB)

*(Dr. Ashish Dhamaniya)*