



**Gaurang J Joshi, Ph.D., Associate Professor,
Section Head, Transportation Engg & Planning
Civil Engineering Department, SVNIT, Surat.**

Date of Birth: 28-12-1966

Date of Joining: 17-8-1992

EDUCATIONAL QUALIFICATIONS

Diploma in Civil Engg.	1988	Government Polytechnic, Ahmedabad
B.E. (Civil)	1991	L.D. College of Engineering, Ahmedabad
M.E. (Civil)	1993	Gujarat University, Ahmedabad
Ph.D. (Civil)	2006	V.N. South Gujarat University, Surat

MAJOR AREAS OF RESEARCH

- Urban Transportation Planning
- Urban & Regional Travel Demand Forecasting
- Traffic Flow Modeling
- Traffic Regulation & Control
- Non-Conventional Materials for Highway Pavements
- Framework for sustainable urban transport systems

COURSES TOUGHT / TEACHING

Under Graduate Level:

CE 401 Highway Engineering
CE413 Urban Transportation Planning
CE 414 Traffic Engineering

Post Graduate Level:

CE 691 Research Analytical Methods
CE 693 Transport Economics
CE 697 Urban Transport System Planning
CE 698 Regional Transport System Planning
CE 702 Public Transport Planning

PRIZES, AWARDS, DISTINCTIONS

1. Secured FIRST RANK at B.E. (Civil) examination of Gujarat University in 1991. Following gold medals were awarded.
 - (i) The New High School, Ahmedabad, Silver Jubilee Medal
 - (ii) Smt. Manigauri Himatlal Bapalal Parikh Medal
 - (iii) Shri Natwarlal Balubhai Shah Medal
 - (iv) Ichchhashanker Durlabhram Vyas Medal
2. Shrinivas Divetia Scholarship for further study of M.E. (Civil) in Gujarat University.
3. MHRD Scholarship for M.E. (Civil – W.R.M.) at L.D. College of Engineering, Ahmedabad. (GATE 92 score: 94.33 percentile)
4. ISTE, New Delhi National award for guiding best M. Tech. thesis in civil engineering (First Prize), 2008.
5. Commendation Certificate awarded by Indian Roads Congress for outstanding work as Member Secretary, Technical Committee H8 at 73rd Annual Session on 10-1-2013 held at Coimbtore.

MEMBER OF TECHNICAL SOCIETIES:

1. Life member, Indian Society for Technical Education(ISTE), New Delhi
2. Member, Institute of Engineers (India)
3. Life Member, Institute of Urban Transport (India), New Delhi
4. Life Member, Indian Roads Congress (IRC), New Delhi
5. Member, Eastern Asia Society for Transport Studies (EASTS), Japan.
6. Life member, Transport Research Group of India (TRG).
7. Member, World Conference on Transport Research Society (WCTRS)

RESEARCH PROJECTS

S.No.	Name of the Project & amount	Sponsoring Authority
1	Study on Mass Housing Scheme for Urban Poor in Metropolitan Cities (Rs.7 lacs)	MHRD New Delhi
2	Study of Speed – Flow Characteristics and Flow Behaviour under Mixed Traffic Condition in Indian Context (Rs.35.10 lacs) (2008-2012)	IRC - SVNIT
3	Development of Indo- Highway Capacity Manual (Rs. 100.450 lac) (2012-2017)	CSIR, Planning Commission of India

JOURNAL REVIEWER

- Journal of Indian Roads Congress
- J. Indian Highways
- Int. J. Case Studies on Transport Planning, Elsevier Pub.
- Int. J. Travel Behaviour and Society, Elsevier Pub.

- Int. J. Transportation Letters, USA
- Int.J., Transportation Engineering: Part A: Systems, ASCE

RESEARCH PUBLICATIONS:

National Journal

<i>Sr. No.</i>	<i>Name of Journal</i>	<i>Volume No.</i>	<i>Month / Year</i>	<i>Title</i>
1.	Institute of Town Planners India (ITPI), New Delhi	2:1	2005	Spatial Trip Rates in Surat, Gujarat
2.	Institute of Town Planners India (ITPI), New Delhi	2:4	2005	Rail Passenger Travel Demand Modeling with reference to South Gujarat Region
3.	Urban Transport Journal Institute of Urban Transport (India)	9:2	2010	Dynamic Trip Distribution of Workers for a Metropolitan City Through Implicit Gravity Modeling
4.	Indian Roads Congress	74-2	July-Sept 2013	Dynamic Vehicle Equivalent Factors for Mixed Traffic Conditions for Multilane Metropolitan Arterials in India
5.	Urban Transport Journal Institute of Urban Transport (India)	12:1	August, 2013	Impact of Proposed River Bridge on Level of Service of Existing Bridge and Linked Corridors: A Case Study of Surat City
6.	Journal of Construction Management NICMAR Pune (ISSN.0970-3675)	Volume XXVIII	Page.33-42 April-June.13 No. II	Selection of A Water Pipe Through MADM Approach
7.	Indian Journal of Transport Management		July-Sept, 2013	Geographical & Cultural Variations in Factors Affecting Travel Mode Choice: An Analysis of Travelers' behaviour
8.	Urban Transport Journal Institute of Urban Transport (India)	Vol.14 No.1	Oct.,2015	Measures of Travel Time Variability and Reliability and Its Improvement Strategies
International Journal				
1.	J. of Eastern Asia Society for Transport Studies, Japan	9	2011	Heterogeneous Traffic Characterisation and Flow Behaviour Modeling for Metropolitan Arterial in

				India (pp1684-1699)
2.	Procedia-Social and Behavioural Sciences Transport Research Areana-Europe 2012 Elsevier Pub.	48	2012	Capacity and LOS for urban arterial road in Indian mixed traffic condition (pp 527-534)
3.	Procedia-Social and Behavioral Sciences, 2 nd CTRG, Elsevier Pub.	104	Dec., 2013	Behavioral Characteristics of Pedestrian Flow on Stairway at Railway Station
4.	I. Research Journal of Sustainable Science & Engineering (ISSN:2347-6176)	2:2	Feb., 2014	An Assessment of the Gap Measurement Phenomenon at Typical Three Armed Intersections on Indian Inter-Urban Roads
5.	I.J. of Advances in Civil Engineering, Hindawi Pub.	In press		Impact of Train Schedule on Pedestrian Movement on Stairway at Suburban Rail Transit Station in Mumbai, India
6.	International Journal of Transportation Engineering ISSN 2322-259X	Volume 2, Issue 4,	Autumn 2014	Literature Review of Traffic Assignment: Static and Dynamic
7.	International Science Index	8:11	Nov.,2014	Mixed Traffic Speed-Flow Behaviour under Influence of Road Side Friction and Non-Motorised Vehicles: A Comparative Study of Arterial Roads in India
8.	I.J. of Traffic & Transport Engineering	5(4), pp.451-457.		Analysis of Commuter Flow Behaviour on Stairways at Metropolitan Transit Station in Mumbai, India
9.	I.J. for Traffic and Transport Engineering	Vol. 5 (2) P:120-133	June,2015	AB Temporal Trip Generation Modeling for Primary Activities: A case Study of Fast Growing Metropolitan City
10.	International Journal of Intelligent Transportation and Urban Planning(ITUP)	Vol. 3 No.3	2015	Activity Based Spatial and Temporal Trip Generation Computation and Validation: A Quick Analysis Approach
11.	Journal of Society of Traffic and Transportation Studies	Vol.6(2), 1-12	2015	Traffic Characteristics Study Through Processing of Video Image For Expressway in India

12.	International Journal For Traffic And Transport Engineering	Vol.5(2) 210-224	2015	Equivalency Factor Using Optimization For Indian Mixed Traffic Condition
13.	Current Science	Vol.110 No.5	10 March, 2016	Traffic Data Analysis using Image Processing Technique on Delhi-Gurgaon Expressway
14.	Transportation Letters, I.J. of Transportation Research, USA	Vol. P-1-12	1-4-2016	Time occupancy as measure of PCU at Four legged roundabouts (DOI:10.1080/19427867.2016.1154685)
15.	Transportation Letters, I.J. of Transportation Research, USA	10.1080, pp. 1-11, pp.1-15	2-6-2016	Effect of Directional Distribution on Capacity of Stairway at Suburban Railway Station in India (DOI:10.1080/19427867.2016.1166689)
16.	Transportation Letters, I.J. of Transportation Research, USA	Vol. 8(2) P-98-112		Effect of Stairway Width on Pedestrian Flow Characteristics at Railway Stations (DOI:10.1179/1942787515Y.0000000012)
17.	Transportation Research Record, J. of Transportation Research Board, Washington DC	No. 2581, P-123-133	2016	Determination of pedestrian level of service for undivided stairways at suburban rail station in developing countries (DOI:10.3141/2581-15)
18.	14th World Conference on Transport Research	Under Review	July, 2016	Developing proximal safety indicators for assessment of un-signalized intersection - a case study in Surat.
19.		Accepted for publication	July, 2016	Conceptual approach of estimating PCU at roundabouts
20.	Transportation Research Procedia (TRPRO)	Accepted for publication	July, 2016	Transit oriented development and its impact on level of service of roads & Metro: A case study of Mumbai metro line 1
	Transportation in Developing Economies (TiDE) (Springer Pub.)	10.1007, pp. 1-13		Comparative Study of Macroscopic Pedestrian Flow Characteristics on Stairways at Rail Transit Stations
24.	Transportation in Developing Economies (TiDE) (Springer Pub.)	Vol.2(2) 1-16	Sept,2016	Database Development Approach and Survey Design for Travel Mode Shift Behavior Study with Respect to Mass

				Transit in a Metropolitan Context (DOI:10.1007/s40890-016-0026-5)
25.	Transportation in Developing Economies (TiDE) (Springer Pub.)	Accepted for publication		Comparative study of macroscopic pedestrian flow characteristics on stairways at rail transit stations (DOI:10.1007/s40890-016-0030-9)
26.	Current Science	Under publication		Estimation of free speed of pedestrian flow on stairways at busy suburb rail transit station in India
27.	International Journal For Traffic And Transport Engineering	6(4):444-452,2016	Feb., 2017	Impact of Socio-Economic Variables and Travel Environment on Perception of Travel Time: A case Study of Surat, India
28.	Transportation in Developing Economies (TiDE) (Springer Pub.)	3:3	Apr.,2017	Comparative Evaluation of Density Estimation Methods on Different Uninterrupted Roadway Facilities: Few Case Studies in India (DOI:10.1007/s40890-016-0031-8)
29.	Proc. of Institution of Civil Engineers: Transport (Thomas Telford Ltd.)	Published	Apr.,2017	Study Of Travel Time Variability Using Two-Wheeler Probed Data – an Indian experience
30.	Transportation Letters, I.J. of Transportation Research, USA	Published on line	21,June,2017	Modeling Expressway lane Utilisation and Lane Choice Behaviour: A Case Study on Delhi-Gurgaon Expressway (DOI: 10.1080/19427867.2017.1336859)
31.	ASCE Journal of Transportation Engineering, Part A: Systems.	Under review	--	Examining Travel Time Reliability-Based Performance Indicators For Bus Routes Using GPS-Based Bus Trajectory Data In India
32.	ASCE Journal of Transportation Engineering, Part A: Systems	Under review	--	Novel Approach For Estimating PCU On Multi Lane Urban Roads Under Heterogeneous Traffic Conditions
33.	I.J. Transportation Research Procedia, Elsevier Pub.	25C (2017)	pp.3039-3058	Transit Oriented Development and Its Impact on Level of Service of Roads & METRO: A Case Study of Mumbai Metro Line-I (Dol: 10.1016/j.trpro.2017.05.297)

International Conference (After 2001)

Sr. No	Name of Conference / Seminar	Month / Year	Venue	Title
1.	International Conférence on Environnemental Management (ICEM-2005)	Oct., 2005	JNTU, Hyderabad	Urbanisation Impact on Settlement Pattern and Travel Demand : A Case Study of Surat
2.	International Conference on Resource Utilisation & Intelligent Systems (INCRUIS – 2006)	Jan., 2006	KEC, Erode	Metropolitan Household Growth Modeling Through Artificial Neural Network: A Case Study of Surat
3.	ASCE 9 th International Conference on Applications of Advances Technology in Transportation (AATT -06)	Aug., 2006	Chicago, USA	Trip Rate Analysis For a Metropolitan in Indian Context
4.	International Conference on Civil Engineering in the New Millennium: Opportunities & Challenges (CENeM – 2007)	Jan., 2007	B.E. S.U., Kolkata	Development of Mode Shift Model Using Stated Preference Data for an Indian Metropolitan City
5.	The Fourteenth International Conference Of The Hong Kong Society For	Dec.,2009	Hongkong Baptist University, Hongkong.	Discharge and Delay Estimation for Unsaturated Signalised Urban Intersection under Mixed Traffic Condition
6.	Transportation Studies, Hong Kong.			Q-K-V Modelling for a Dense Pedestrian Traffic Corridor of an Industrial Estate in Gujarat, India.
7.	9 th International Workshop on Transportation Planning and	15-17, Dec.,2010	Transportation Systems Engineering , Department of Civil Engg, IITBombay.	Mode Shift Behavior Study of Low Income Group Travelers With Respect To Patna Bus Rapid Transit System
8.	Implementation Methodologies for Developing Countries (TPMDC 2010)			Mixed Traffic Headway Distribution Modeling on a Multilane Metropolitan Arterial in India

9.				Land use Change Estimation for a Metropolitan City Through Integrated Household Growth Travel Demand Modeling in Fuzzy Environment (Invited Presentation)
10.	9 th EASTS Conference “Green Growth & Transport”, Jeju, Korea	19-23, June, 2011	Eastern Asia Society for Transport Studies	Heterogeneous Traffic Characterisation and Flow Behaviour Modeling for Metropolitan Arterial in India
11.	17 th International Conference of Hong Kong Society for Transportation studies (HKSTS) on Transportation &	15-17, December, 2012	HKSTS & The HK University of Science & Technology, Hong Kong	Transit Oriented Development for Metropolitan Corridor: Possible Solution for Sustainable Development in South Gujarat Region, India
12.	Logistics Management			Mixed traffic speed-flow-density models with dynamic traffic characterisation for an undivided CBD corridor in India
13.				Influence of spatio-temporal changes in built environment on Metropolitan travel behavior in India
14.	International Conference on Innovative Technologies in Engineering & Sciences in association with GTU, VVP ITS Conference-2012	22-23, Dec., 2012		Estimation of Macroscopic Stream Parameters for Performance Evaluation of Undivided Collector Street in India
15.	10 th EASTS Conference “Towards a harmonized transport society”,	9-12, September, 2013	Taiwan	Relation between Travel Time Reliability and Space Mean Speed for Mixed Traffic Conditions - A Case Study of Urban Road Corridor in India
16.				Walking Speed of Pedestrians on Stairways at Intercity Railway

				Station in India
17.	9 th Asia Pacific Conference on Transportation and the Environment, Colombo	6-8, Aug.,2014		Traffic Characteristics Study Through Processing Of Video Image For Expressway In India
18.	International Conference on Traffic and Transport Engineering	27-28 November 2014	Belgrade, Serbia	Analysis of Pedestrian Flow Characteristics on Stairways at Busy Suburban Railway Station in India
19.	11 th International Workshop on Transportation Planning and	10-12, Dec.,2014	IITBombay	Comparative Evaluation of Density Estimation Methods on Expressway: A Case Study of Delhi-Gurgaon Expressway
20.	Implementation Methodologies for Developing Countries (TPMDC 2010)			Relation between Travel Time Reliability and Space Mean Speed under Mixed Traffic Conditions - A Case Study of Urban Arterial in Surat
21.	94 th Annual Meeting of Transportation Research Board, USA	10-14, Jan.,2015	Washington DC	Empirical Study of Bidirectional Movement on Stairway at a Suburban Rail Station in India
22.	16th International Conference on Traffic and Transportation Engineering (ICTTE)	13- 14, Nov. 2014	Venice, Italy	Mixed Traffic Speed-Flow Behavior under Influence of Road Side Friction and Non-Motorized Vehicles: A Comparative Study of Arterial Roads in India Vol 8 No 11 pp 480-487
23.	11th International Conference of Eastern Asia Society for Transportation Studies	11-14, Sept., 2015	Cebu, Philippines	Evaluation of BRTS Corridor in India Using Microscopic Simulation: A Case Study in Surat City
24.	11th International Conference of Eastern Asia Society for Transportation Studies	11-14, Sept., 2015	Cebu, Philippines	Study of Flow Characteristics and Traffic Stream Modeling on Indian Expressway: A Case Study of Mahatma Gandhi Expressway
25.	11th International Conference of Eastern Asia Society for Transportation Studies	11-14, Sept., 2015	Cebu, Philippines	Studying Effect of Weight-to-Power Ratio on Truck Acceleration Characteristics on Gradient using Mechanistic Approach
26.	20 th International Conference of The Hong Kong Society For	12-14,Dec., 2015	Accepted for Presentation	Time Choice Model for Non-Mandatory Activities: A Case Study of Fast Growing

	Transportation Studies, Hong Kong.			Metropolitan City
27.	95 th Annual Meeting of Annual Transportation Research Board, USA, Washington DC	Jan.,2016	Accepted for presentation	Determination of pedestrian level of service for undivided stairways at suburban rail station in developing countries
28.	14th World Conference on Transport Research, Shanghai.	July, 2016	Accepted for presentation	Transit oriented development and its impact on level of service of roads & Metro: A case study of Mumbai metro line 1
29.		July, 2016	Accepted for presentation	Travel demand elasticity analysis for non-voluntary purpose trips by heterogeneous travelers in Indian metropolitan city, Surat
30.		July, 2016	Accepted for presentation	Effect of driver compliance with varying traffic composition on roadway capacity of Expressways in India
31.		July, 2016	Accepted for presentation	Effect of Traffic Composition and Emergency Lane on Capacity: A Case Study of Intercity Expressway in India
32.		July, 2016	Accepted for presentation	Mixed traffic characteristic study for capacity assessment on urban arterial midblock
33.	EURO Working Group on Transportation Meeting (EWGT2016), Istanbul	September , 2016	Accepted for presentation	Safety evaluation of un-signalized intersection using surrogate safety measure under mixed traffic environment'
34.		September , 2016	Accepted for presentation	Benchmarking for Sustainable Urban Transport Systems: A Comparative Study in Indian Metro Cities
35.	96 th Annual Meeting of Annual Transportation Research Board, USA, Washington DC	Jan.,2017	Accepted for presentation	Concept of flow equivalency factor under heterogeneous traffic condition for urban arterial midblock
36.			Accepted for presentation	New methodology for estimating PCU on multi lane urban roads under mixed traffic scenario based on area occupancy
37.				Accepted for

			presentation	functional characteristics of location on walking speed at stairway facility
38.			Accepted for presentation	Examining effect of individual characteristics on walking speed at un-signalized mid-block crossings
39.			Accepted for presentation	Examining microscopic and macroscopic traffic flow parameters at diverging section on multilane urban roads in India
40.			Accepted for presentation	Calibration of vehicle following models using trajectory data under heterogeneous traffic conditions
41.	12th International Conference of Eastern Asia Society for Transportation Studies	Ho-Chi-Min City, Vietnam	Accepted for presentation	Mode shift behaviour study of car users with respect to mass transit in a metropolitan context
42.	20 EURO Working Group on Transportation Meeting (EWGT2017)	Budapest	Accepted for presentation	Operational Analysis and Schedule Development for Surat BRTS Phase I Stage II Corridor
43.			Accepted for presentation	Safety evaluation of un-signalized intersection using surrogate safety measure under mixed traffic environment

National Conferences / Seminars (After 2001)

<i>Sr. No</i>	<i>Name of Conference / Seminar</i>	<i>Month / Year</i>	<i>Venue</i>	<i>Title</i>
1.	National Conference on Urban Transport & Environment, UENTRA – 03	June, 2003	KLESCET, Belgaum	Trip Rates and Intensity Characteristics in Metropolitan Context: A Case Study of Surat
2.	National Conference on Urban Air Pollution : Issues & Management , UAPIM-03	Dec., 2003	SVNIT, Surat	Land Use Transportation Planning and Air Quality With Reference to Fast Developing Metro Cities
3.				Impact of Transportation on Urban Air Quality – An Overview
4.	National Seminar on Strategies in Traffic Engineering &	Feb., 2004	MSRIT, Bangalore	Traffic Intensity Profile for Metropolitan – A Case Study of Surat

	Management, STEM – 04			
5.	National Conference on Urban Housing : Issues & Development Strategies, UHIDES –04	Mar., 2004	SVNIT, Surat	Modeling Zonal Household Growth in Metropolitan Context
6.	National Conference on Advances in Road Transport, ART –05	Feb., 2005	NIT, Rourkela	Development of Disaggregate Urban Trip Generation Model: ANN Approach
7.				Urban Form Transition in Case of Fast Growing Metropolitan City: Surat
8.	National conference on Synergic Solutions for Sustainable Development – Prescription for Prosperity	Dec., 2005	NITK, Surathkal	Urbanisation Impact on Sustainable Development with Reference to South Gujarat Region
9.	National Conference on Civil Engineering – Trends, Issues & Challenges (CETIC -06)	Mar., 2006	MSU, Vadodara	Policy Sensitive Mode Choice Models for a Metropolitan: A Case Study of Surat
10.	National Conference Civil Engineering: Meeting the Challenges	Nov., 2006	GNDCE, Ludhiana	Two Wheelers to public transportation shift for different income groups in Surat.
11.	of Tomorrow			Travel Mode Choice with reference to work & education trips behaviour in a metropolitan context.
12.	National Seminar Traffic, Accidents & their Genesis: An Investigating Approach (TAGA-07)	Apr.,2007	Jabalpur Engineering College, Jabalpur	Traffic Calming Approach Through Modal Shift
13.	National Conference on “Sustainable Urban Transportation: Issues and Management Strategies” (SUTRIMS 07)	Dec.,2007	SVNIT, Surat.	Level of Service for Urban Intersection: A Policy Statement for a Sustainable Transport System
14.				Estimation of Passenger Trip Shift to Transit: A Case Study of Surat.
15.	National Conference on “Sustainable Urban	Feb., 2008	SVNIT, Surat.	Impact of Transit Mode Shift on Urban Environment: A Case Study

	Environment: Issues and Management Strategies”, (SUEIMS08)			of Surat
16.	3 rd Annual Conference & Exhibition Urban Mobility India (UMI) 2010, Ministry of Urban Development, Government of India	3-5, Dec.,2010.	Hotel Grand, New Delhi	Characterisation of Bus Transit Operation and Mode Shift Analysis: A Case Study of Surat.
17.				Study on Travellers Characteristics and Reactions for Bus Rapid Transit Systems: Case Studies of Delhi and Pune
18.				Transit Oriented Land Use – Transport Planning for Surat – Navsari Twin City Metro – regional Corridor
19.	National Conference: Sustainable Urban & Transportation Planning: Issues & Management Strategies (SUTRIMS 11)	8-10, July, 2011	Civil Engg. Department, SVNIT	Sustainable Urban Development Perspective
20.				Developments in Discrete Choice Modelling Techniques for Travel Mode Choice Analysis: An Overview
21.				Urban public Bus Transportation Scenario and Observed Modal Shift in Last Three Decades Using Revealed Preference Data: A Case Study of Vadodara City in Gujarat
22.	National Conference & Workshop: Recent Advances in Traffic Engineering (RATE 12)	7-9, June,2012	P.G. Section in Transportation Engg & Planning, SVNIT, Surat	Regional Rail Passenger Traffic Forecasting Under Bimodal Environment For Southern Gujarat Industrial Corridor(47-51)
23.				Empirical Study on Vehicles Equivalent Factors in Mixed Traffic Environment For Metropolitan Cities in India (61-66)
24.				Mix Traffic Characteristics of Urban Collector Road in Indian Context (80-86)
25.				Characterisation of Mix Traffic Flow Parameters for an Undivided Metropolitan CBD Corridor (87-92)
26.				Critical Review on the Relevance of the Static Passenger Car Unit For Mix Traffic (93-102)

27.				Estimation of Traffic Diversion Pattern Due to Proposed Cable stayed Bridge in Surat (103-110)
28.				Effect of Uncontrolled Access and Road side Activity on Multilane Metropolitan Arterial Under Mix Traffic Environment (129-134)
29.				Mixed Traffic Lane Choice and Headway Characteristics on Multilane Urban Arterials (143-149)
30.				Empirical Observation based Dynamic Characterisation of Mixed traffic Characteristics on Selected Collector Streets of Metropolitan Cities (159-166)
31.	Twenty-Eighth National Convention of Civil Engineers and National Seminar on Role of Infrastructure for Sustainable Development (RInforSD 2012)	12-14, October, 2012	The IE (India), IIT Roorkee	A Methodology for Dynamic Characterisation of Mixed Traffic on Arterial Roads in India
32.	61 st National Town and Country Planning Congress: Indian Cities in Transition, Ahmedabad	8-10 Feb., 2013	Proc. Part II page:517-524	Commuter Preference Based Transit Oriented Land Use Planning For Fast Growing Surat-Navsari Metro Region Corridor
33.	2 nd Conference of Transport Research Group of India.	10-13, Dec., 2013	Agra	Behavioral Characteristics of Pedestrian Flow on Stairway at Railway Station
34.	74 th Annual Session of Indian Roads Congress,	18-21, Jan., 2014	Guwahati	Dynamic Vehicle Equivalent Factors for Mixed Traffic Conditions for Multilane Metropolitan Arterials in India
35.	Transportation Young Researchers' Symposium (TYRES 2014),	27-29, March, 2014	NIT Warangal	Evaluation Of Public Transport Policy For Surat City: A Comparative Study Through MNL And FRBS

36.				Estimation of Roadway Capacity of Urban Expressways
37.	Colloquium on Transportation Systems Engineering and Management	12-13, May2014.	NIT Calicut	Study On Traffic Characteristics On Expressway - A Case Study Of Mahatma Gandhi Expressway
38.				Study On Travel Time Reliability Indices For An Arterial Road In Surat City
39.				Influence Of Variation In Travel Expenditure For Non-Voluntary Trips By Heterogeneous Travelers In A Transit Deficient Metropolitan City
40.				Pedestrian Flow Behavior Analysis For Stairway At Busy Suburban Rail Transit Station In India
41.				Effect of road gradient on truck acceleration characteristic using mechanistic approach
42.				Relation between Travel Time Reliability and Space Mean Speed under Mixed Traffic Conditions - A Case Study of Urban Arterial in Surat
43.	National Conference of Sustainable and Smart Cities (SSC-15), 2015.	10-11, April,2015	SVNIT, Surat	Smart and Sustainable Mobility Solution in Urban Areas: A comparative study and proposed research framework
44.				Overview of smart city concept and its implementation in India
45.	National Conference and Workshop On Recent Advances In Traffic Engineering (RATE 15)	3-4, July,2015	SVNIT, Surat	Effect of non motorized traffic on stream speed of urban arterial road in Indian context
46.				Mixed Traffic flow characteristics at diverging section non Delhi-Gurgaon Expressway
47.				Time Occupancy As A Measure Of PCU Value At Four Legged Roundabout

48.			Study of Lane Choice Behaviour of Different Vehicle classes on Delhi-Gurgaon Expressway
49.	National Conference on Recent Advances in Civil Engineering (RACE2016)	5-6, March, 2016	SVNIT, Surat Operational Analysis Of Surat BRTS Phase I Stage II Corridor
50.	National Conference on Fifteen Years of PMGSY	6-7, August, 2016	IIT Roorkee Rural Road Pavement subgrade & sub base Improvement with the Use of lime, lime & fly ash and geo-synthetics in South Gujarat region.
51.			Prioritization of maintenance of PMGSY roads using HDM-IV: Case study of Surat district

CONFERENCES / WORKSHOPS/ SEMINARS ETC. ATTENDED : 60
TRAINING PROGRAMMES ATTENDED: 12
WORKSHOPS / SEMINARS / CONFERENCES ORGANISED: 18
TRAINING PROGRAMMES ORGANISED: 10

PROCEEDINGS PUBLISHED

1. Editor, Proceedings of National Conference on Urban Air Pollution: Issues and Management (UAPIM – 03) , 11 – 13 , Dec., 2003, Civil Engineering Department, SVNIT, Surat.
2. Editor, Proceedings of National Symposium on Urban Housing: Issues and Development Strategies (UHIDES – 04), 26 – 27, March, 2004, Civil Engineering Department, SVNIT, Surat.
3. Editor, Proceedings of National Conference on Sustainable Urban Transportation: Issues and Management Strategies”, (SUTRIMS07), 28-29, December, 2007, Civil Engineering Department, SVNIT, Surat.
4. Editor, Proceedings of National Conference on Sustainable Urban & Transportation Planning: Issues and Management Strategies”, (SUTRIMS11), 8-10, July, 2011, Civil Engineering Department, SVNIT, Surat.
5. Editor, Proceedings of National Conference & Workshop on Recent Advances in Traffic Engineering (RATE 12), 7-9, June,2012. **ISBN: 978-93-82062-33-2, Excel India Publishers, New Delhi.**
6. Editor, Abstract Proceedings of National Conference & Workshop on Recent Advances in Traffic Engineering (RATE 15), 3-4, July,2015. **ISBN: 978-93-84869-65-6, Excel India Publishers, New Delhi.**

BOOKS / RESEARCH MONOGRAPH

1. Urban Growth & Travel Demand Forecasting by Fuzzy- Neuro Simulation, Lap Lambert Publishing House, Germany, February, 2013 ISBN:978-3-8465-3840-1
2. Transportation Planning: Principles, Practices and Policies, Prentice Hall of India, New Delhi, November, 2014

REVISION OF IRC CODES

1. IRC:98-2011, Guidelines On Accommodation Of Utility Services On Roads In Urban Areas
2. IRC:103-2012, Guidelines for Pedestrian Facilities
3. IRC:SP:50-2013, Guidelines on Urban Drainage
4. IRC:SP:12-2015, Guidelines for Parking facilities in Urban Areas

EXPERT LECTURES DELIVERED

1. "Augmentation of Water Resources" at Workshop on Watershed Management, NSS Unit, SVRCET, Surat, 22-23rd March, 1996.
2. "Quality Management & quality Assurance Model for Technical Education", one day workshop on Total Quality Management and ISO – 9000 in Technical Education, ISTE, SVRCET, Surat Chapter, 30th September, 1996.
3. "IPR in Technical Education" at Faculty Development program on Entrepreneurship, E.D. Cell, SVRCET, Surat, 23rd to 28th July 2001.
4. "Fuzzy Composite Programming: Basics and an Application for Urban Environmental Planning", Short Term Training Workshop on Fuzzy Set Theory and Fuzzy Logic Application in Civil and Environmental Engineering, Department of Civil Engineering, SVNIT, Surat, 8 – 13, January, 2007.
5. "Transportation Planning: ANN Applications", TEQIP Short Term Training Programme, L.D. College of Engineering, Ahmedabad, 28 – 30, May, 2007.
6. "Artificial Neural Network: A Tool for Modeling in Transportation Planning & Traffic Engineering", TEQIP Short Term Training Programme, L.D. College of Engineering, Ahmedabad, 8 – 12, September, 2008.

7. "Mixed Traffic Characterisation and Flow Modeling", QIP/CEP Short Term Course on "Innovations in Traffic Flow Modeling" 05-09 July 2010, Indian Institute of Technology, Bombay, 6-7-2010.
8. Urban Transportation in India: Issues and Challenges", Nirman2010 Symposium, Organised by Gujarat Institute of Civil Engineers and Architects (GCEA) at Ahmedabad, 19-9-2010
9. "Land use Change Estimation for a Metropolitan City Through Integrated Household Growth Travel Demand Modeling in Fuzzy Environment", 9th International Workshop on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2010), 15-12-2011.
10. "Traffic Characteristics and Flow behavior on Indian Urban Roads", National Workshop on Indo-HCM, CSIR-Central Road Research Institute, New Delhi, 24-25, November, 2011.
11. "Urban Transportation: Demand management & challenges", STTP on Recent Trends in Urban Transportation, SVIT, Vasad, 22-November, 2011.
12. "Non-motorised Transport: Status-Issues-Way Forward" Workshop on Issues & Strategies for Non Motorised Transport Modes, CSIR-CRRI, New Delhi, 23-1-2012
13. "Urban Transportation Planning: Issues & Challenges", STTP on Recent Trends in Transportation Engineering, LDCE, Ahmadabad, organized by GTU & LDCE during 30-4-12 to 5-5-12. (4-5-2012)
14. " Urban Travel Demand Forecasting", Civil Engineering Department, Shree Swami Atmanand Saraswati Institute of Technology, Surat (13-9-2012)
15. "Capacity Estimation for Urban arterial, Sub-arterian and collector Roads", National Workshop on methodology for Indian Highway Capacity manual (MIHCAM), SVNIT, Surat, 18-19, January, 2013.
16. "Career Opportunities in Transportation Engineering", Civil Engineering Department, Nirma University, Ahmedabad, 21-2-2013.
17. "Estimation Of Urban Growth Potential By Fuzzy Composite Procedure", STTP on Mathematical statistics for Researchers, Engineers & Scientists, Applied Mathematics & Humanities Department, SVNIT, Surat (5-3-2013)

18. "Estimation of Urban Growth through Fuzzy Composite Procedure", STTP (ISTE-SRM University) on Application of Mathematics in Real World Problems, 21-3-2013.
19. "Travel Demand Assessment", Training Programme for City Officials (27-31, May, 2013), Under Sustainable Urban Transport Project (UNDP-GEF Funded), IUTI, MoUD, Govt. of India, Himachal Pradesh Institute of Public Administration (HIPA), Shimla, 28-5-2013.
20. " Linear Programming Application in Urban Planning & Transportation Planning", STTP on Optimization Techniques for Scientists & Engineers, Department of Applied mathematics, SVNIT, Surat, 21-6-2013
21. "Fuzzy Logic: Philosophy & Basic Ideas", TEQIP II STTP on CFD for Scientists & Engineers, AMHD,SVNIT (09-07-2013)
22. "Urban Transport System Planning: Issues-Challenges-Methodologies", Civil Engineering Department, SASIT, Surat (2-9-2013).
23. "Demand Assessment", Sixth Capacity Building Programme on Sustainable Urban Transport, Institute of Urban Transport India,MoUD, Government of India, Yashwantrao Chawan Academy of Development Administration (YASHDA), Pune, (23-10-2013).
24. " Fuzzy Logic Applications in Urban Transport System Planning", STTP on Mathematical statistics for Researchers, Engineers & Scientists, Applied Mathematics & Humanities Department, SVNIT, Surat (5-9-2013)
25. "Lime-Soil stabilization: Recent Experiences in Gujarat", Workshop on Non-Conventional Materials & Technologies, National Rural Roads Development Agency, Central Road Research Institute, New Delhi (7-12-2013)
26. "Demand Assessment Planning", Eighth Capacity Building Programme on Sustainable Urban Transport, Institute of Urban Transport India, MoUD, Government of India, Indian Institute of Entrepreneurship, Guwahati (29-01-2014)
27. "Travel Demand Assessment", Tenth Capacity Building Programme on Sustainable Urban Transport, Institute of Urban Transport India, MoUD, Government of India, Mahatma Gandhi State Institute of Public Administration, Chandigarh (10-02-2014)

28. "Urban Transit: Status & Policy", National Conference, NCEVT, Parul Institute of Engineering & Technology, Vadodara (04-4-2014)
29. "Traffic Forecasting Fundamentals", One week TEQIP sponsored FDP on Recent Advances in Traffic Engineering & transport Planning, Malnad College of Engineering, Hassan, Bangalore (9-10-2014)
30. "Four Step Traditional Urban Transportation Planning Process", One week TEQIP sponsored FDP on Recent Advances in Traffic Engineering & transport Planning, Malnad College of Engineering, Hassan, Bangalore (9-10-2014)
31. "Traffic Forecast: Case Studies", One week TEQIP sponsored FDP on Recent Advances in Traffic Engineering & transport Planning, Malnad College of Engineering, Hassan, Bangalore (9-10-2014)
32. "Urban Transport Planning", Thirteenth Capacity Building Programme on Sustainable Urban Transport, Institute of Urban Transport India, MoUD, Government of India, Sardar Patel Institute of Public Administration, Ahmedabad (15-12-2014)
33. "Urban Transport Planning", Thirteenth Capacity Building Programme on Sustainable Urban Transport, Institute of Urban Transport India, MoUD, Government of India, Sardar Patel Institute of Public Administration, Ahmedabad (15-12-2014)
34. "Travel Demand Assessment" Thirteenth Capacity Building Programme on Sustainable Urban Transport, Institute of Urban Transport India, MoUD, Government of India, Sardar Patel Institute of Public Administration, Ahmedabad (15-12-2014)
35. "Urban Transportation Planning: Issues and Approaches", ISTE Sponsored Short Term Training Programme Recent Advances & Modern Practices In Transportation Engineering, Universal College of Engineering, Kaman, Mumbai. (16-12-2014)
36. "Urban transport Planning for Sustainable Development", QIP Short Term Training Program: Innovative Technologies in Transportation Engineering (ITTE-2015), Civil Engineering Department, Indian Institute of Technology, Guwahati.(23-2-2015)
37. "Traffic Forecast: Concepts and A case Study", QIP Short Term Training Program: Innovative Technologies in Transportation Engineering (ITTE-2015), Civil Engineering Department, Indian Institute of Technology, Guwahati.(24-2-2015).

38. "Traffic Flow Scenario In India: Roadway and Vehicular Characteristics", Training Programme On VISSIM: Traffic Simulation Software , SVNIT,Surat,(23-03-2015)
39. "Traffic Flow Characteristics Under Indian conditions", Training Programme On VISSIM: Traffic Simulation Software , SVNIT, Surat,(23-03-2015)
40. RASTE: The Curtain Raiser, TEQIP II Short Term Training Programme Recent Advances in Studies of Traffic Engineering SVNIT, Surat (30-06-2014).
41. "Traffic Flow Characteristics for Different Roadway Elements" TEQIP II Short Term Training Programme Recent Advances in Studies of Traffic Engineering SVNIT, Surat (30-06-2014).
42. "Traffic Forecast Fundamentals", TEQIP II Short Term Training Programme Recent Advances in Studies of Traffic Engineering SVNIT, Surat (3-07-2014).
43. "Traffic Forecast: Case Studies", TEQIP II Short Term Training Programme Recent Advances in Studies of Traffic Engineering SVNIT, Surat (10-07-2014).
44. Fuzzy Logic Applications in Transportation Planning, TEQIP II - STTP on "Mathematical & Optimization Modelling with Simulation by Scientific Tools for Researchers, Engineers and Scientist, AMHD,SVNIT, Surat (25-06-2015)
45. "On Diversity of Urban Traffic Flow Characteristics under Influence of Urbanisation", Second National Conference & Workshop Recent Advances in Traffic Engineering (RATE 15),SVNIT, Surat (03-07-2015).
46. "Sustainable Transportation: Challenges", One Day Seminar on Public Transport in Surat: Status and Challenges, 1st August, 2015, IUTI SVNIT Regional Chapter, SVNIT, Surat.
47. "Surat : Transport System & Travel Characteristics", One Day Seminar on Public Transport in Surat: Status and Challenges, 1st August, 2015, IUTI SVNIT Regional Chapter, SVNIT, Surat.
48. "Demand Assessment Planning", Sustainable Urban Transport Project, MoUD, Gol ,18th Capacity Building Programme for State / City Officials, 19th to 21st August, 2015, Chhattisgarh Academy of Administration, Naya Raipur.
49. " Sustainable Urban Transport: ITS in Public Transport", National Workshop: Fostering Sustainability in Infrastructure Development Projects, 21 September, 2015 Dr.DY Patil School of Engineering,Lohegaon, Pune.
50. "Planning for Sustainable Urban Transportation", One Day Seminar on Public Transport in Rajkot: Status and Challenges, 26-September, 2015, IUTI SVNIT Regional Chapter, Darshan Institute of Engineering & technology, Rajkot.
51. "Application of ANN Technique in Transportation", Workshop on Application of Soft Computing Techniques in Civil Engineering 15-16 October 2016, CED, SVNIT, Surat.
52. "Surat : Sustainable Mobility Challenges", Workshop on Smart Transportation Mobility & Walkability, Surat Municipal Corporation, 17 October,2015, Sardar Vallabhbhai Patel Bhavan, SVNIT, Surat.

53. "Teacher' Role in Present day Education System", 1st Self-financed Short Term training Program on Tools & Techniques for Effective Teaching & Research, , October,2015.
54. "Regional Economic Analysis for Transport Planning", Department of Civil Engineering, faculty of Technology, MS University of Boroda, Vadodara, 1 March, 2016.
55. "Public Transport", Department of Civil Engineering, Universal college of Engineering, Kaman, 22 March, 2016.
56. "Roadway Capacity Estimation for Inter-urban Expressways", National Conference NCEVT, Civil engineering Department, Parul University, Vadodara, 9 April, 2016.
57. "Highway Project Planning & Surveys", Self Financed Training Programme" MXROAD And AutoCAD Civil 3D Software",6 May,2016, SVNIT Surat.
58. "Efforts towards Development of Indian Highway Capacity Manual (Indo-HCM)",Self Financed STTP on "Road Planning, Design, Construction, Evaluation and Rehabilitation", 10 May,2016, SVNIT Surat.
59. "Transport & Economy", TEQIP two weeks Short Term Training programme on " Comprehensive Transportation Planning Practices", 16 May, 2016, SVNIT, Surat.
60. "Urbanisation & Urban Transportation", TEQIP two weeks Short Term Training programme on " Comprehensive Transportation Planning Practices", 16 May, 2016, SVNIT, Surat.
61. "Comprehensive Transportation Planning Process", TEQIP two weeks Short Term Training programme on " Comprehensive Transportation Planning Practices", 17 May, 2016, SVNIT, Surat.
62. "Four Stage Sequential Modelling II: Trip Distribution", TEQIP two weeks Short Term Training programme on " Comprehensive Transportation Planning Practices", 18 May, 2016, SVNIT, Surat.
63. "Four Stage Sequential Modelling III: Mode Choice", TEQIP two weeks Short Term Training programme on " Comprehensive Transportation Planning Practices", 19 May, 2016, SVNIT, Surat.

64. “ Regional Transportation Planning”, TEQIP two weeks Short Term Training programme on “ Comprehensive Transportation Planning Practices”, 25 May, 2016, SVNIT, Surat.
65. “Transit Oriented Development And Its Impact On Road Traffic And Metro: Case Study of Mumbai Metro Line –I (VAG) Corridor”, Fourth National Conference on Innovative and Emerging Technologies, Smt. S. R. Patel Engineering College, Unjha, Mehsana, 2 June,2016.
66. “ Sustainable Urban Transportation: Issues & Challenges”, FDP at Bhagwan Mahavir College, Surat, 7-10-2016
67. “Teacher’s Role in Present Day Education System’, 2nd Self-financed Short Term training Program on Tools & Techniques for Effective Teaching & Research, 13-17, February,2017.
68. “Quality Management System”, NRRDA sponsored Training programme for PMGSY State Quality Monitors of Gujarat State, Staff Training College, Gandhinagar, 26-4-2017.
69. “Travel Demand Modelling in Fuzzy Environment”, STTP on Soft Computing Techniques in Transportation Engineering, L.D. College of Engineering, Ahmedabad (3-5-2017)
70. “Heterogeneous Traffic Flow Analysis for Indian Expressways”, Key Note Speech, 4th Conference of Transportation System Engineering & Management, College of Engineering, Guindy, Anna University, Chennai 12-13 May,2017.

CONSULTANCY ASSIGNMENTS:

1. Survey Work for Indian Oil Corporation, Ichchhapore, Hazira, November, 1992 to March, 2003.
2. Review of Design and Specifications for Compound Wall of ONGC Complex, Hazira, November, 1998.
3. Scrutinizing Proposals for Rural Roads Construction under PMGSY, State Technical Agency, Gujarat, May, 2001- 2003
4. State Quality Monitor, Gujarat for PMGSY (2004-2006)
5. Consultancy services for designing pavements, roads and vehicle operation floor area of shed in the reclaimed area near KRIBHCO jetty, M/s. Yojaka (India) Pvt. Ltd., June-July 2010.

6. Road Safety Audit for NH-8 passing through Surat district, Road safety Week, January 2011.
7. Utilisation of Fine Copper Slag of Hindalco Industries For Roads & Land Filling Activities from M/s. Birla Copper, Dahej, Bharuch, July, 2010, - May 2011.
8. Third Party Inspections (PWD, Daman & Diu UT), April-2013 onwards
 - a. Widening of existing road into Four lane road from Nagoa Junction to Vanakbara in Diu District-S.H. spray Grout and constriction of road divider. (30/04/2013)
 - b. Widening of existing road into Four lane road from Nagoa Junction to Vanakbara in Diu District-S.H.:- up to W.B.M. Stage (30/04/2013)
 - c. Construction of Additional New Bridge with approaches at Tad Creek in Diu District. (2015)
9. Third Party Inspections, Road Works, R&B, SMC, SUDA, April 2013 onwards
 - a. Four Laning of Surat-Sachin Navsari Road Km. 13/4 to 30/360.
 - b. Four Laning of Billimora Chikhli Road Km. 4/4 to 9/0.
 - c. Four Laning of Chikhli-Vasda-Vaghai-Saputara Road Km. 23/0 to 41/2.
 - d. Consultancy services for technical audit and quality assurance for road works under Tapi (R & B) Division Vyara
 - e. Constructing a Major Bridge on Various road in Navsari and Jalalpor Taluka, Dist. Navsari Under B. L. P. Normal 2014-15 Package-1.
10. Mix Design for Constructing a Box Culvert abs slab drain on Various road in Jalalpor Taluka Dist. Navsari Under 86-3054-S.R. Years 2015-16 Package-1 (2Box Culvert, slab Drain).
11. Field and Laboratory Investigations: Beawar-Pali-Pindwara Toll-Way Ltd. (2015)
12. Traffic Survey for Dream City Area, Surat (2015)
13. Performance Evaluations for New Technology Projects (21) of Rural roads under PMGSY for the State of Gujarat (August, 2014 onwards)
14. Design of roadway connecting GGS in Gandhar, ONGC (Jan-Feb, 2015).
15. Design of pavement for 4-laning of Surat – Olpad State Highway (April-May, 2015)
16. Study & Evaluation of Roadway connecting Bhata Valve station, ONGC, Hazira (Jan-March, 2016)
17. Technical Evaluation for the construction of Border Road, Fence and Border Flood Light of 1.00 Km as Pilot Project from BP-1049 to BP-1050 at Indo-Pak Border Project at Rann of Kutch, Gujarat (2016)
18. Prepare Mix Design for BC and DBM for the work of Four Laning of Billimora Chikhli Road Km. 4/4 to 9/0. Widening & Strengthening Amalsad Gandevi Road Km 0/0 to 5/2
19. Prepare Mix Design for DBM and SDBC for the work of SR3 Gandevi, Desar/Alipor Road Km. 0/0 to 7/2

20. Feasibility Study for setting up of Truck parking Terminal at Kandla (Aug-Sept, 2016),WAPCOS, Pune.
21. Providing advisory services including preparing detailed manual / guideline for road works in Surat (Complete Street Design Guidelines) (Aug-Sept, 2016)
22. Consultancy Services for Road Safety Audit , R & B Div. Navsari (2016-17)
23. Consultancy Services for Road Safety Audit , R &B Div.Vyara (2016-17)
24. Providing engineering design for rigid and flexible pavements on both side of existing canal, R.C.C conduit for existing canal section etc. and allied works from Pal R.T.O junction to Amroli - Sayan road (up to ring road) via park in West zone of Surat city (Oct,2016-Mar,2017)
25. Providing engineering design for rigid and flexible pavements on either side of existing canal, storm water drainage network etc. and allied works from Anuvrat Dwar to Surat- Dumas road via G.D. Geonka school & FROM Sachin-Magdhalla road (Mangalam Heights) to Jamanaba Park in Surat city.
26. Providing consultancy for comprehensive planning & Engineering design for rigid and flexible pavements on either side of existing canal, storm water drainage network etc. and allied works from BRTS Panas- Breadliner circle-Soham circle up to Bhimrad village (January-2017)

M.TECH. DISSERTATIONS SUPERVISED

1. Metropolitan Travel Behaviour Analysis: A Case Study of Surat City (Ravin Tailor, MTRP 2002).
2. Mode Choice Behaviour in Metropolitan Context : A Case Study of Surat City (Mayur Sangani, MTRP 2003).
3. Artificial Neural Network Based Disaggregate Trip Generation Model for Surat City (Harshad Sutaria, MTRP 2004).
4. Demographic and Rail Passenger Travel Demand Analysis with Reference to South Gujarat Region (Parul Mehta, MTRP 2004).
5. Modal Shift Behaviour Study With Stated Preference Data for Bus Choice in Surat (Rasik Bawadia, MTRP 2006)
6. Development of Discharge and Delay Models for Signalised Urban Intersection in Indian Context (Chetan R. Patel, MTRP 2008)
7. A Study on Trip Rates and Trip Predictions of Households in Newly Extended Area of Surat City (Siddharth Siddhpuria, MTRP 2008)
8. Review of Operation and Performance of Bus Transit System in Surat City (Mukundray Kothiya, MTRP 2008)
9. Heterogeneous Traffic Characterisation and Flow Behaviour Study for Urban Arterials (Jignesh H Patel, TEP 2009)
10. Study on Mixed Traffic Speed and Headway Distribution on a Multilane Metropolitan Arterial (Amish S. Patel,TEP 2009)

11. Study on Development of Transit Oriented Landuse Planning for Surat – Navsari Twin City Metro region Corridor (Parin D. Gandhi, MTech Planning, 2010)
12. Bus Transit Shift Modeling Through Disaggregate Approach: A Metropolitan Case Study, (Sultan A. Azizi, TEP, 2010)
13. Traffic Flow Behaviour Study for Four Lane Undivided Road in a Metropolitan CBD under Mixed Traffic Conditions (Hassaun Shahir, TEP, 2010)
14. Study of Mixed Traffic Characterisation for Multilane Arterials in Indian Metropolitan Context (Hemang Choudhary, TEP, 2010)
15. Disaggregate Mode Shift Behaviour Study with Respect to Bus Rapid Transit System: A Case Study of Patna (Devendra Mokal, TEP, 2010)
16. Study of Operation and Performance Characteristics of Bus Rapid Transit Systems in Indian Context (Bhushan Bramhecha, TEP 2010)
17. Assessment of use of copper slag in non-bituminous layers of pavement, Anish H Shah, TEP, 2011)
18. Study on usage of FCS: A waste from copper industries in bituminous layers of flexible pavement (Sunil Mangatani, TEP 2011)
19. Study on Multi-regime Mixed Traffic Flow and Level of Service for a metropolitan arterial (Sachin Patel, TEP, 2011)
20. Modeling intra-urban trip interchange through disaggregate gravity approach: A Case study of Surat (Patel Varshketu , TEP 2011)
21. Mixed traffic characterisation and flow behaviour study on collector streets in India (Maulik Vyas, TEP 2011)
22. Disaggregate mixed traffic flow characteristics and headway distribution study for multilane metropolitan arterials (Maulik Bagadiya, TEP 2011)
23. Transit based transportation planning for CBD: A case study of Surat. (Dewang Choudhari, MTech Planning 2011)
24. Development of dynamic vehicle equivalent factors (DVEF) under mix traffic condition in context of multilane metropolitan arterials in India.(Vagadiya Dinesh H., TEP, 2012)
25. Laboratory Investigation & Performance Evaluation of SMA using Warm Mix Additive (Abhishek Patidar, TEP, 2012)
26. Mechanistic Evaluation of Bituminous Concrete containing Composite of Fly ash and Plastic waste (Bilwal Hemant R., TEP, 2012)
27. Mechanistic Evaluation of Stone Matrix Asphalt containing Composite of Fly ash and Modified Bitumen (Patel Mehul B., TEP,, 2012)
28. Development of models for consistency Limit and Indices for fine grained soils using slump test (Patel Rakesh B., TEP, 2012)
29. Speed characteristic study in free flow regime on urban arterial road in Indian context (Parmar Nirav D., TEP, 2012)
30. Heterogeneous traffic speed and flow behavior study for selected 2-lane & 3-lane Arterial road (Kapadia Mihir, TEP, 2012)

31. A Study on Mixed traffic Speed- Flow Density Relationship Under Varying Roadway and Traffic Conditions for Undivided Collector Streets. (Rinkal T. Patel, TEP, 2012)
32. Dynamic Assessment of Impact of Urban Growth on the Qualities of Service Corridor: A Case Study of West Zone of Surat City.(Praful Shinker, TEP, 2012)
33. Developing Trip Generation and Distribution Models for the city of Surat using TransCAD (Parth Doshi, TEP, 2012)
34. Study on Effect of Regional Economic Growth on Traffic on National Highways in Surat District (Yash Hivarker, TEP, 2013)
35. Evaluation of Travel Time Reliability (Rushikesh B, TEP,2013)
36. Development of Dynamic Vehicle Equivalent factors for Mixed Traffic Condition on Undivided Collector Roads in India (Rupang Shah, TEP 2013)
37. Study on Moisture Susceptibility in Bituminous Concrete Using Moisture Induced Sensitivity Test (R.Ghosh, P12 TP 001)
38. Determination of Fatigue Endurance Limit of Dense Bituminous Mixes (Praveen NVSS, P12 TP 013)
39. Study on Role of Para Transit in Context of Strengthening of Mass Transit System: A Case Study of Surat City (Vaibhav G, P12TP018)
40. Mixed Traffic Gap Acceptance Behaviour at Four Legged Rotary Intersection (Asir Khan, P12TP021)
41. Study on Mixed Traffic Flow Behaviour on Intercity Expressway: A Case Study of Mahatma Gandhi Expressway (Jabeena, M,P12TP015)
42. Study of Travel Mode Preference Behaviour for Heterogenous Travelers in a fast Growing Metropolitan City in India (Vasudevan, P12TP005)
43. Estimation of Roadway Capacity of Urban Expressways on Straight and Curved Sections (Ashwin C., P12TP004)
44. Comparing Methods of Calculating Critical Gap for Three Armed Unsignalised Intersections in Delhi (Cheti Sai Abhishek, P12TP007)
45. Transit Oriented Development and its Impact on Road Traffic and Metro: A Case Study of Mumbai Metro Line – I along Versova – Andheri –Ghatkopar Corridor (Chaitrali Shirke (P13TP005)
46. Development of Framework for Evaluation Sustainable Index of Urban Transportation System: A Case Study Of Surat, India (Binal Patel), P13TP019)
47. Study on Mixed Traffic Flow Characteristics at Merging and Diverging Sections (Krishnanunni M,P13TP013)
48. Qualitative Assessment Of Sidewalk Facilities From Users Perception (Prashant N., P14TP014)
49. Air Travel demand Modeling for Surat Airport (Abhijeet B., P14TP015)
50. Assessment of Travel Behaviour on Climate Change Parameters: A case study of Surat (*in progress*)(Nimitt P.,)
51. Development of Activity based models for fast growing metropolitan city (*in progress*) (Omkar B.,)

M.TECH. TRANSPORTATION PROJECTS SUPERVISED:

1. Study on traffic and travel characteristics of Navsari City (2008-09)
2. Parking study and analysis at Sahara Darwaja Intersection, Ring Road, Surat(2009-10).
3. Study on pedestrian traffic behaviour at Ichchhanath Intersection,SVNIT, Surat.(2009-10)
4. Traffic operation planning and management strategies as immediate measure at Rajmarg of Surat (2010-11)
5. Traffic & transportation planning strategies to relieve high level traffic: A case study of chowk – Delhi Gate corridor, Surat.(2010-11)
6. Traffic status analysis & traffic forecasting for Rajmarg, Surat.(2010-11)
7. Impact on Traffic Pattern Due to Construction of Cable Stayed Bridge in Surat City. (2011-12)
8. Study of Traffic Flow Characteristics and LoS for Hierarchical Roads in Pune City (2011-12)
9. Traffic Management Plan for Civil Cross Roads on J.P. Ring Road, Surat.(2012-13)
10. Appraisal of Public Transport System in Surat (2012-13)
11. Analysis of PMGSY Road Proposals (2013-14)
12. Study of Following and Non-Following Behaviour of Test Car of NH-8 : Kamrej – Ankaleshwar Section (2014-15)
13. Development of maintenance Strategy for PMGSY Roads in Surat District (2015-16)
14. Planning and Design of Truck Terminal for Kandla Port (2016-17)

DOCTORAL WORK SUPERVISION

1. Study on Dispute Occurrence Behaviour Under Influence of Multiple Claim-Causes in Indian Highway Projects in India, Mr. Dhaval Parikh, SAI Consulting Pvt. Ltd.(PEC)(2007) ***(Degree Awarded, July, 2014)***
2. Development of Urban Quality of Life Index in Indian Context, Mr. Debashish Basak, Town Planner, Surat Municipal Corporation, Surat.(PEC)(2008)***(Thesis under review)***
3. Study on Mixed Traffic Flow Behaviour in Indian Metropolitan Context: Mr.C.R.Patel, Asstt. Professor, CED, SVNIT, Surat.(PIS)(2009) ***(Degree awarded, March,2016)***
4. Study of Mode Shift Behaviour with respect to Transit in Metropolitan Context, Ms. Nipa Desai, Babaria Institute of Technology, Vadodara.(PEC)(2010)***(Thesis under review,March2017)***

5. Study of Pedestrian Flow Behaviour on Stairways at Rail Transit Stations, Mr. Jiten H. Shah (FIR)(2011)) (Co-supervisor: Dr Purnima Parida, CSIR-CRRI) ***(Degree awarded, March 2016)***
6. Traffic Flow Behaviour Study for Inter-Urban Express Highways in India Mr. Dinesh Vagadia (PEC)(2013) (Co-supervisor:Dr S. Velmurugan, CSIR-CRRI)
7. Real Time Travel Decision Modeling through Travel Time Reliability for Urban Activity Pattern, Mr. Krishna Saw (PEC) (2013)
(Co-Supervisor:Dr.B.K.Katti, Ex. Professor Emeritus,SVNIT)
8. Study on Effect of Driving Cycle on Pollution levels at Signalised Urban Intersections, Ms. Boski Chouhan (PEC) (2013)
(Co-supervisor: Dr. Purnima Parida, CSIR-CRRI)
9. Study on Parking Demand with Respect to Land use and Travel Demand Characteristics, Mr. S.M. Dave (PEC) (2013).
(Co-supervisor: Dr.K. Ravinder, CSIR-CRRI)
10. Study on Pedestrian Flow Behaviour on Cross walks, Mr. Avinash Choudhary (PEC) (2015)
(Co-supervisor: Dr.S.Arkatar, Asstt. Professor,SVNIT)
11. Study on Mixed Traffic Flow Behaviour on Urban Expressway, Mr. Pallavkumar (FIR) (2014)
(Co-supervisor: Dr.S.Arkatar, Asstt. Professor,SVNIT)
12. Development of framework for evaluation of sustainable transport systems for metropolitan cities, Ms. Rupali Zope (FIR (2014))
(Co-supervisor: Dr.S.Arkatar, Asstt. Professor,SVNIT)
13. Study on Travel Time Variability for Public Transport Systems. Mr. Akhilesh Chepuri (FIR) (2015) (Co-supervisor: Dr.S.Arkatar, Asstt. Professor,SVNIT)

PROFESSIONAL RECOGNITIONS

- Coordinator, State Technical Agency, PMGSY-Gujarat, Government of India (wef April,2015)
- Member, General Body, National Rural Roads Development Agency, Ministry of Rural Development, Government of India (wef August,2015).
- State Quality Monitor, PMGSY, Gujarat State (2004-2006).
- Chairman, Technical Session 2, First Indo – US Symposium on Mass Transit and Travel Behaviour Research (MTTBR08), Civil Engineering

Department, Indian Institute of Technology, Guwahati, 12 – 15, February, 2008

- Member Secretary, Technical Committee on Urban Roads, Streets and Transport (H-8), Indian Roads Congress (2008-2011, 2011-14).
- Regional Coordinator (North West Region) & Member, Supra Institutional Network Project (SINP) Development of Indo- Highway capacity Manual (HCM), CSIR- Central Road Research Institute, New Delhi with funding from Planning Commission of India under 12th Five Year Plan
- Member, Pilot Projects Committee, Indian Roads Congress, New Delhi.
- Member, Technical Committee for seminar on “Recent Trends in Highway Development” organized by Indian Roads Congress, 10-11, October, India Habitat Centre, New Delhi.
- Member, Performance Evaluation Committee, National Rural Road Development Agency, Ministry of Rural Development, Government of India.
- Co-chairman, Technical Session on Transport Infrastructure System-1, National Seminar on Role of Infrastructure for Sustainable Development, IIT-Roorkee, 12-14, October, 2012.
- Executive Board Member, Transport Research Group of India, Bangalore.
- Session Chair, Session:13F2S02: Analysis & Modeling of Traffic Streams-I, 2nd CTRG, Agra, 12-15, December, 2013.
- Expert Member, M Tech & PhD Evaluations, Gujarat Technological University, Ahmedabad.
- Domain expert, Urban Travel Demand Assessment, World Bank-GEF Supported Capacity Building programme for Sustainable Urban transport Project, Institute of Urban Transport India, Ministry of Urban Development, Govt. of India
- Member, Expert Advisory Group, CSIR-CRRI 12th Five Year Plan Project: Development and Applications of Technologies for Sustainable Transportation (SUSTRANS)(ESC-0106)
- Chairman, IUTI-SVNIT Regional Chapter, SVNIT, Surat (Since October, 2014)
- Member, General Body, National Rural Road Development Agency, Ministry of Rural Development, Government of India.
- Session Chair: 11th International Conference of Eastern Asia Society for Transport Studies, 11-14, September, 2015, Cebu, Philippines.
- Session Chair, 3rd Conference of Transportation Research Group of India, 17-20, December, 2015, Kolkata.
- Session Chair: 8th Urban Mobility India, Research Symposium, 24-27, November, 2015, Institute of Urban Transport (India), New Delhi.
- Session Chair: 9th Urban Mobility India, Research Symposium, 8-12, November, 2016, Institute of Urban Transport (India), Gandhinagar.

- Session Chair, QIP Sponsored & ISTE Approved International Conference on “Research and Innovations in Science, Engineering & Technology” ICRISSET 17 -19 February, 2017
- Chair, 4th Conference of Transportation Research Group of India, 17-20, December,2017, IITB-Mumbai.

ABROAD VISIT

- **US** for presentation of research paper at ASCE 9th International Conference on Applications of Advances Technology in Transportation (AATT -06), August 2006
- The Fourteenth International Conference Of The Hong Kong Society For Transportation Studies, **Hong Kong**., December, 2009
- 9th EASTS Conference “Green Growth & Transport”, **Jeu, S.Korea**, June, 2011.
- 9th APTE Conference on transport and Environment, Colombo, **SriLanka**, August,2014.
- **USA** for presentation of research paper at 94th Annual Meeting of Transportation Research Board, Washington DC, January 2015.
- **Philippines** for presentation of research paper at 11th International Conference of Eastern Asia Society for Transport Studies, 11-14, September, 2015.
- **China** for presentation of research paper at 14th World Conference on Transport Research 9WCTR) at Tongji University, 1014 July, 2016.
- **US** for presentation of research paper at 96th Annual Meeting of Transportation Research Board, Washington DC, January 2017.

DEPARTMENTAL LEVEL CO-CURRICULAR & ADMINISTRATIVE ACTIVITIES

A. Departmental Level

1. Faculty Member -in-charge, Engineering Geology Laboratory, (1996 – 98)
2. Faculty Member-in-charge, Water Resources Engineering Laboratory, (1998-2002)
3. Faculty Member-in-charge, Computer Laboratory, (Since June, 2002)
4. Coordinator for Seminars & Electives (1998 – 2000).

5. Worked as Member, Curriculum Development Committee, Laboratory Development Committee and Website Development Committee.
6. Coordinator, MODROB Scheme for Up gradation & Enhancement of Existing Facilities in Water Resources Engineering Laboratory, (2000 – 2002), Grant : Rs. 7.00 lacs.
7. Member, State Technical Agency, Gujarat state, Pradhan Mantri Gram Sadak Yojana (PMGSY)(2001-2013)
8. Member, Thrust Area Project on “A Study on Mass Housing Schemes with Respect to Urban Poor in Metropolitan Cities”, MHRD, New Delhi : Rs. 8.0 lacs (2002 – 2004).
9. Member, Departmental Research Committee
10. Member, Departmental Committee for P.G. Programme in Transportation Engineering
11. P.G. in- charge (Transportation Engg. & Planning) , since 2007 till March-2013.
12. In-charge Transportation CAD Lab
13. Section Head (Transportation Engg & Planning), since March 2013

B. Institute Level Activities

1. Member, Admission Committee (1993 – 98)
2. Member, Social & Cultural Activities Committee (1992 – 1997)
3. Member, Course Proposal Committee for U.G. Course on “Naval Architecture and Marine Engineering” (1997).
4. Member, Literary & Debating Committee (1992 – 1998, 2002).
5. Member, Center for Humanity Resource Development
6. Co-Chairman, Gymkhana Committee (2002 – 2004).
7. Examination Duties
8. Invitee, Building Works & Stores Purchase Committee, SVRCET, Surat(2001 – 2002).
9. Member, Research Progress Committees
10. Professor in charge (Estate – Civil works) July, 1998 to June-2002
11. Hostel Warden, October, 2003 to December 2005
12. Chief Hostel Warden, December, 2005 to December, 2008
13. Dean (Students Welfare), December 2008 – October 2011.
14. Chief Warden, Raman Bhawan (Oct, 2011 - July,2012) / Sardar Bhawan (July 2012-June2013)
15. Member, Academic Rules & Regulation Committee (March-April 2013)
16. Dean (Academic), 3 June, 2014 to 27 Nov., 2015,(*Ex-officio*) Head; Applied Physics Department & Head, Applied Chemistry Department, 3 June, 2014 to 27 Nov., 2015